

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198772

Luminaire Tested: **XNV-AF-01-LED-U-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T3-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5000.2 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

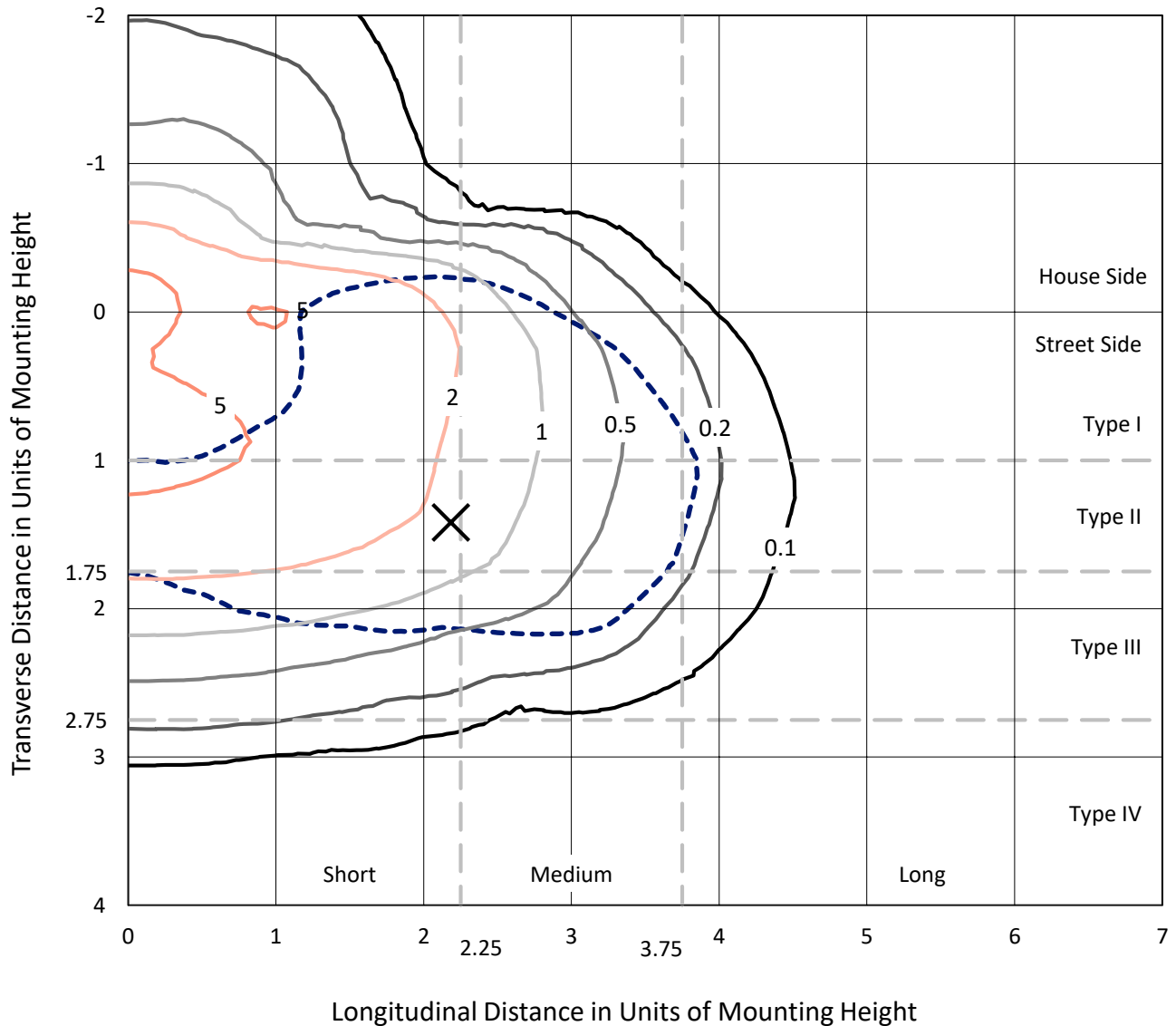
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

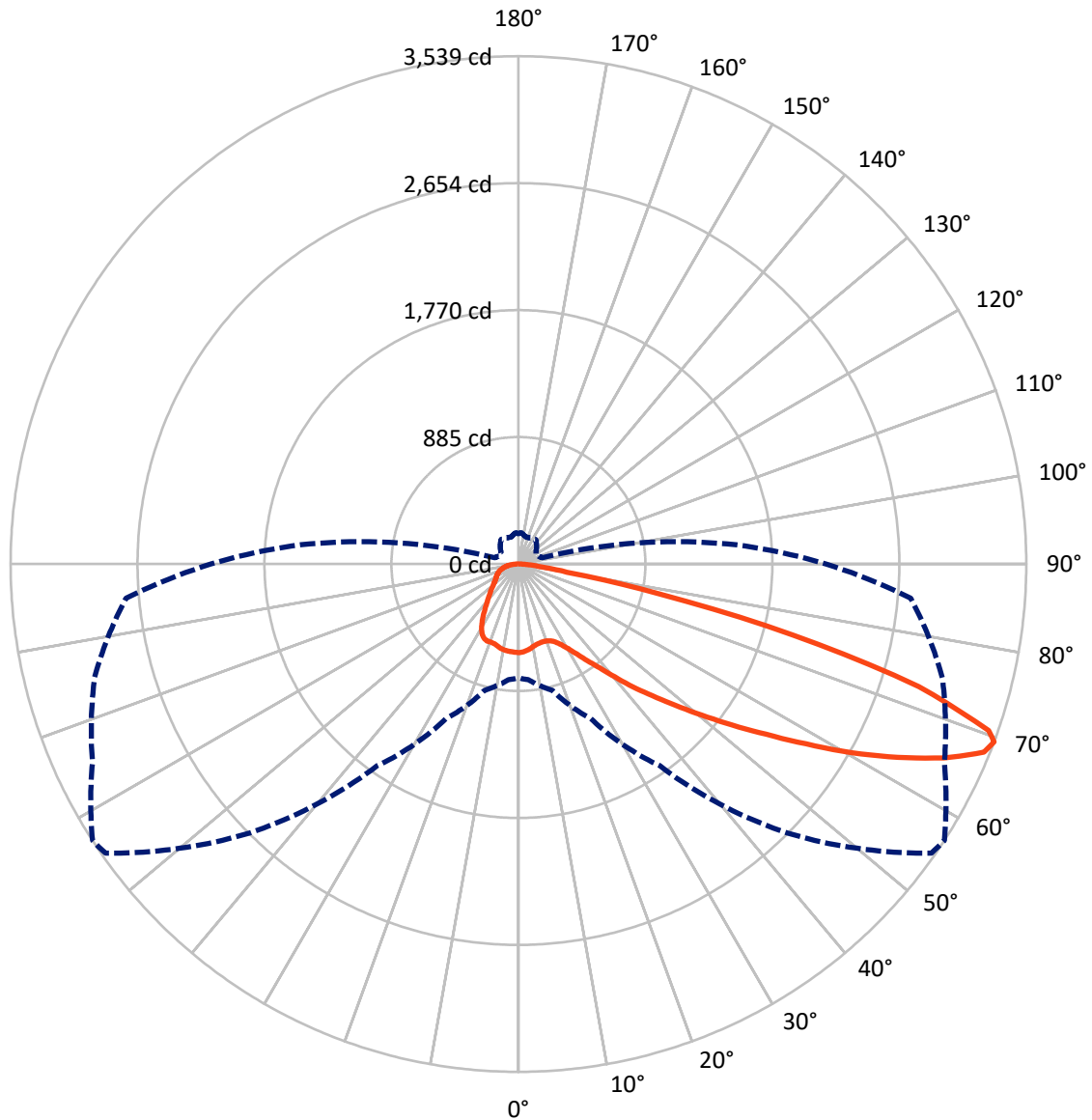


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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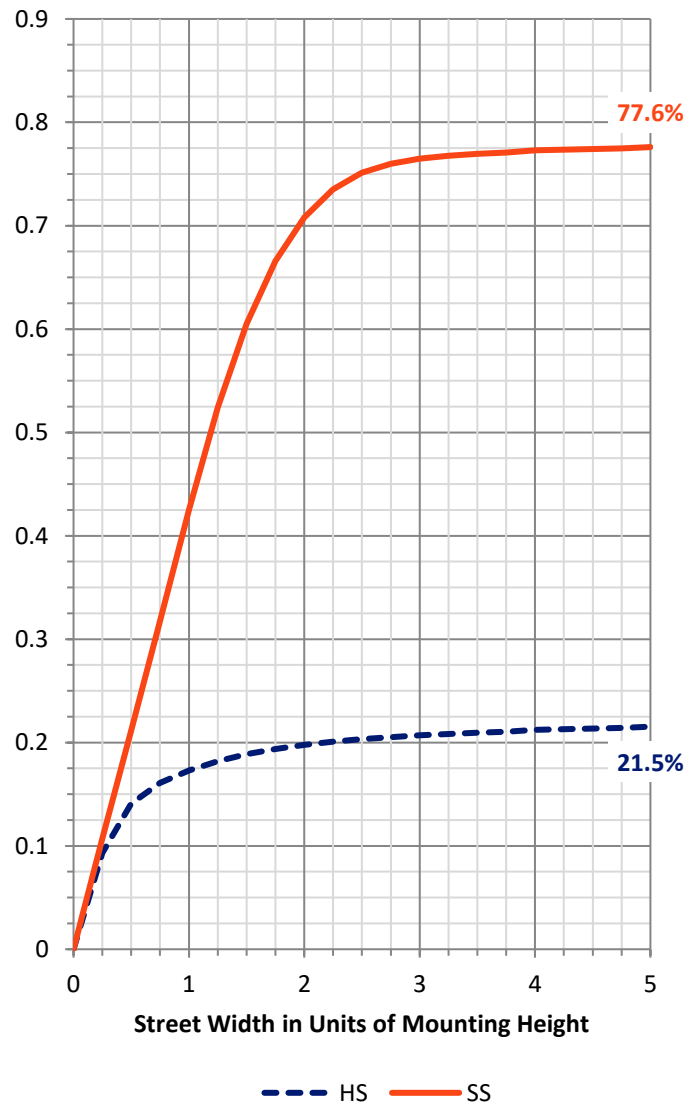
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1103.4	0.0	1103.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	3896.8	0.0	3896.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	5000.2	0.0	5000.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	1.2
10°-20°	164.5	3.3
20°-30°	273.6	5.5
30°-40°	446.7	8.9
40°-50°	754.0	15.1
50°-60°	1172.8	23.5
60°-70°	1397.1	27.9
70°-80°	650.9	13.0
80°-90°	82.8	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5000.2	100.0
0°-180°	5000.2	100.0



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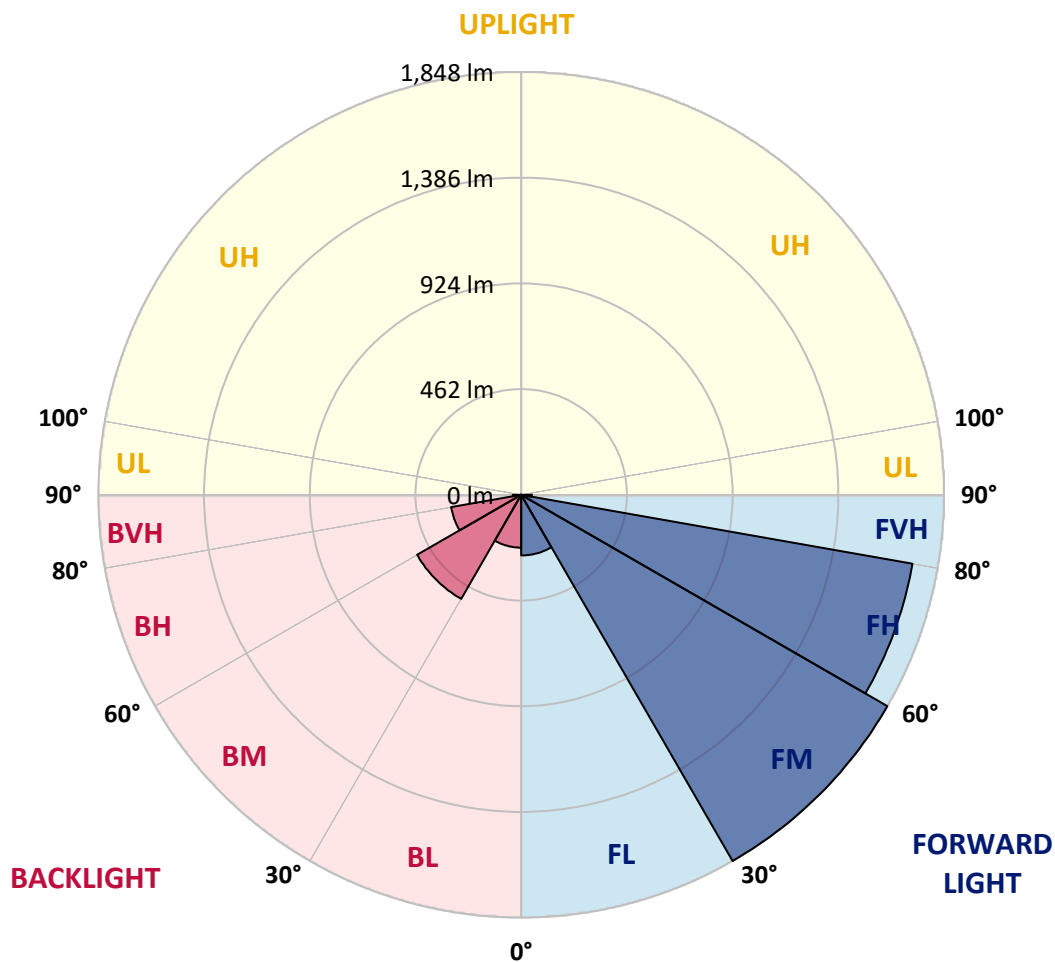
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.8	5.3			
FM	(30°-60°)	1848.4	37.0			
FH	(60°-80°)	1737.1	34.7			G1/1800
FVH	(80°-90°)	46.5	0.9			G1/100
BL	(0°-30°)	231.1	4.6	B1/500		
BM	(30°-60°)	525.1	10.5	B1/1000		
BH	(60°-80°)	310.9	6.2	B1/500		G1/500
BVH	(80°-90°)	36.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9
2.5°	614.3	614.3	615.9	615.9	615.9	615.3	613.4	614.0	612.7	611.7	610.1
5°	601.8	602.4	604.4	605.0	606.0	606.3	606.3	606.0	606.3	606.3	605.4
7.5°	584.5	585.1	587.4	588.7	591.6	594.1	595.5	595.5	597.0	598.3	598.6
10°	574.0	574.0	575.2	575.2	577.5	578.8	583.0	582.6	587.1	591.3	593.2
12.5°	572.6	572.6	572.0	569.8	568.6	568.2	572.3	573.0	579.7	587.1	590.7
15°	576.8	576.8	574.9	570.4	565.7	563.4	567.5	568.9	576.2	584.8	590.2
17.5°	590.2	589.9	585.8	576.8	568.6	565.0	566.3	567.5	574.3	584.2	591.0
20°	620.1	620.1	611.1	594.7	580.3	572.0	570.1	571.1	575.9	585.1	593.8
22.5°	672.3	673.2	657.2	630.3	605.7	588.1	580.3	581.3	583.6	592.5	602.1
25°	749.1	746.5	723.7	685.7	647.2	617.1	601.5	602.4	602.4	610.8	620.7
27.5°	830.3	831.0	798.4	757.4	706.9	662.0	637.0	636.7	636.4	644.4	655.0
30°	922.3	922.6	884.8	837.4	779.5	722.2	684.8	684.5	681.5	691.4	705.2
32.5°	1022.7	1022.4	978.6	925.2	860.8	795.9	747.2	746.9	744.6	758.0	774.7
35°	1134.1	1134.1	1090.7	1024.7	955.2	882.9	826.5	826.2	827.5	845.8	861.4
37.5°	1268.3	1271.2	1218.6	1138.6	1062.7	985.6	920.0	918.1	908.5	939.2	965.2
40°	1408.2	1416.2	1361.8	1268.3	1186.3	1106.6	1034.3	1033.0	1024.7	1057.3	1099.3
42.5°	1559.6	1577.8	1517.3	1421.9	1332.6	1246.6	1173.8	1170.4	1138.3	1189.2	1254.9
45°	1758.0	1769.9	1682.2	1595.8	1511.6	1413.3	1326.9	1307.9	1275.9	1341.3	1426.4
47.5°	1893.2	1887.4	1832.6	1774.7	1720.6	1626.5	1493.6	1469.7	1430.6	1517.0	1610.8
50°	1977.1	1981.1	1950.5	1947.6	1944.7	1879.1	1681.8	1653.1	1608.0	1710.4	1819.8
52.5°	2032.4	2013.5	2019.0	2084.3	2163.3	2131.9	1894.7	1862.8	1816.4	1918.7	2042.3
55°	2009.4	1984.4	2034.6	2163.3	2349.3	2356.4	2128.5	2095.5	2055.8	2140.3	2309.9
57.5°	1913.9	1926.4	2005.8	2184.8	2476.4	2557.4	2397.0	2363.4	2285.3	2371.1	2564.1
60°	1779.8	1805.1	1926.4	2150.9	2565.4	2713.9	2691.9	2669.4	2535.0	2595.8	2831.1
62.5°	1635.8	1660.8	1809.9	2093.0	2525.4	2852.5	2981.2	2967.5	2810.6	2812.2	3000.4
65°	1422.9	1433.2	1585.6	1934.8	2414.3	2977.7	3270.9	3258.8	3074.1	2996.9	3047.8
67.5°	1074.6	1087.4	1212.6	1527.3	2076.3	2909.9	3502.4	3500.4	3232.5	3065.4	2935.2
69°	793.6	809.3	911.3	1185.7	1716.8	2651.2	3513.2	3539.2	3275.4	3058.4	2744.7
70°	580.7	598.6	693.0	941.1	1430.0	2365.7	3420.1	3475.8	3259.1	3013.9	2596.1
72.5°	246.8	252.9	299.3	424.8	725.4	1426.4	2801.4	2918.5	2943.4	2700.5	2028.2
75°	154.6	156.5	174.8	218.0	322.6	589.9	1814.1	1973.8	2197.6	2095.1	1358.0
77.5°	116.5	118.2	128.7	150.2	200.4	220.2	841.6	1003.5	1258.7	1232.5	675.8
80°	89.3	90.2	97.3	109.1	141.2	138.0	273.0	343.2	525.3	463.5	239.2
82.5°	70.1	70.4	76.5	78.8	98.6	92.9	137.0	152.7	212.3	176.4	116.8
85°	62.1	63.0	69.2	57.6	63.0	56.1	75.2	81.6	112.7	106.3	44.2
87.5°	31.7	33.2	57.9	49.3	31.7	26.6	32.9	35.5	45.7	49.6	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9
2.5°	610.5	610.8	611.7	613.4	615.9	619.1	623.0	626.8	629.0	630.6	630.0
5°	605.4	605.7	607.5	610.5	613.7	618.5	624.8	629.6	633.2	635.5	635.2
7.5°	598.9	599.9	603.7	606.9	611.4	615.3	620.4	624.8	628.4	630.6	630.3
10°	594.1	595.1	599.9	604.1	607.9	608.6	607.5	606.3	606.0	607.5	606.9
12.5°	591.9	593.8	598.3	601.2	599.6	593.5	586.5	583.6	582.6	585.8	586.2
15°	592.5	594.1	598.0	596.1	587.4	577.1	573.4	575.6	577.5	579.4	579.7
17.5°	594.1	595.1	596.1	589.0	576.8	570.1	568.9	566.6	560.9	557.6	557.3
20°	597.0	598.3	596.7	585.5	574.6	565.7	550.2	536.5	523.3	516.4	513.4
22.5°	606.9	607.9	603.1	592.2	575.6	546.5	515.4	491.7	471.5	460.6	456.4
25°	626.5	628.1	621.3	607.5	564.1	513.1	469.3	437.3	411.9	398.8	395.4
27.5°	660.7	662.4	655.0	619.1	537.2	468.6	415.5	383.8	362.0	350.9	349.2
30°	712.0	714.2	707.5	618.8	496.1	411.9	363.0	344.4	331.9	324.3	324.0
32.5°	783.0	791.4	763.8	607.9	445.6	354.7	323.4	316.9	310.9	305.8	305.8
35°	873.3	892.8	819.5	585.1	389.9	315.7	301.3	295.1	287.4	282.0	281.4
37.5°	981.1	1011.6	859.2	544.8	341.9	296.8	287.8	277.8	265.7	255.1	252.6
40°	1129.3	1136.4	878.7	479.3	306.1	286.5	275.3	262.8	247.5	235.6	234.4
42.5°	1278.2	1255.2	874.8	408.8	285.5	277.2	262.5	248.7	235.0	225.0	225.0
45°	1447.6	1358.9	845.8	338.1	267.0	266.7	250.6	237.5	227.0	219.6	218.0
47.5°	1609.5	1452.1	795.4	285.8	247.8	256.0	243.0	232.4	222.8	215.7	214.5
50°	1806.1	1559.9	742.0	249.4	229.2	246.8	239.8	234.4	225.0	212.9	211.5
52.5°	2001.4	1686.0	700.7	221.9	212.9	239.5	241.7	242.3	233.6	210.0	208.4
55°	2211.0	1820.9	657.2	200.4	199.5	235.9	246.1	245.5	241.4	210.6	208.1
57.5°	2410.5	1956.2	592.2	185.4	188.8	232.4	247.1	236.9	229.6	213.8	209.7
60°	2575.7	2068.3	496.8	174.8	179.9	225.4	240.7	225.4	212.9	213.2	209.4
62.5°	2656.0	2099.6	380.0	162.6	172.6	213.8	231.5	216.8	205.2	214.5	212.3
65°	2594.8	2010.3	270.8	151.4	163.6	200.4	226.0	209.4	201.3	220.9	218.3
67.5°	2375.3	1767.0	196.5	141.5	155.0	186.6	215.7	202.6	197.5	225.7	219.9
69°	2141.9	1525.6	170.3	135.7	148.8	179.2	209.0	199.1	194.7	218.9	210.6
70°	1947.9	1339.7	157.1	132.2	143.7	175.1	203.9	196.9	191.7	210.9	201.0
72.5°	1396.6	865.9	132.2	121.6	130.3	165.8	192.7	188.5	180.9	190.5	184.0
75°	843.8	452.0	112.3	110.8	116.2	153.0	179.6	174.4	166.7	167.8	164.5
77.5°	387.7	208.7	94.1	98.0	101.5	137.0	163.6	157.8	150.8	148.2	148.5
80°	170.0	121.9	78.8	83.6	85.5	123.3	146.3	139.9	132.2	146.0	135.4
82.5°	91.9	70.8	61.5	64.7	70.1	107.2	127.1	118.8	111.4	129.6	104.6
85°	37.1	36.2	41.6	44.8	48.7	77.1	106.3	97.6	88.7	79.4	77.4
87.5°	16.0	17.3	20.5	21.8	25.9	48.0	71.4	62.4	62.7	53.8	52.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)