

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: P271271

Luminaire Tested: **XNV-AF-01-LED-U-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-7027-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4318.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

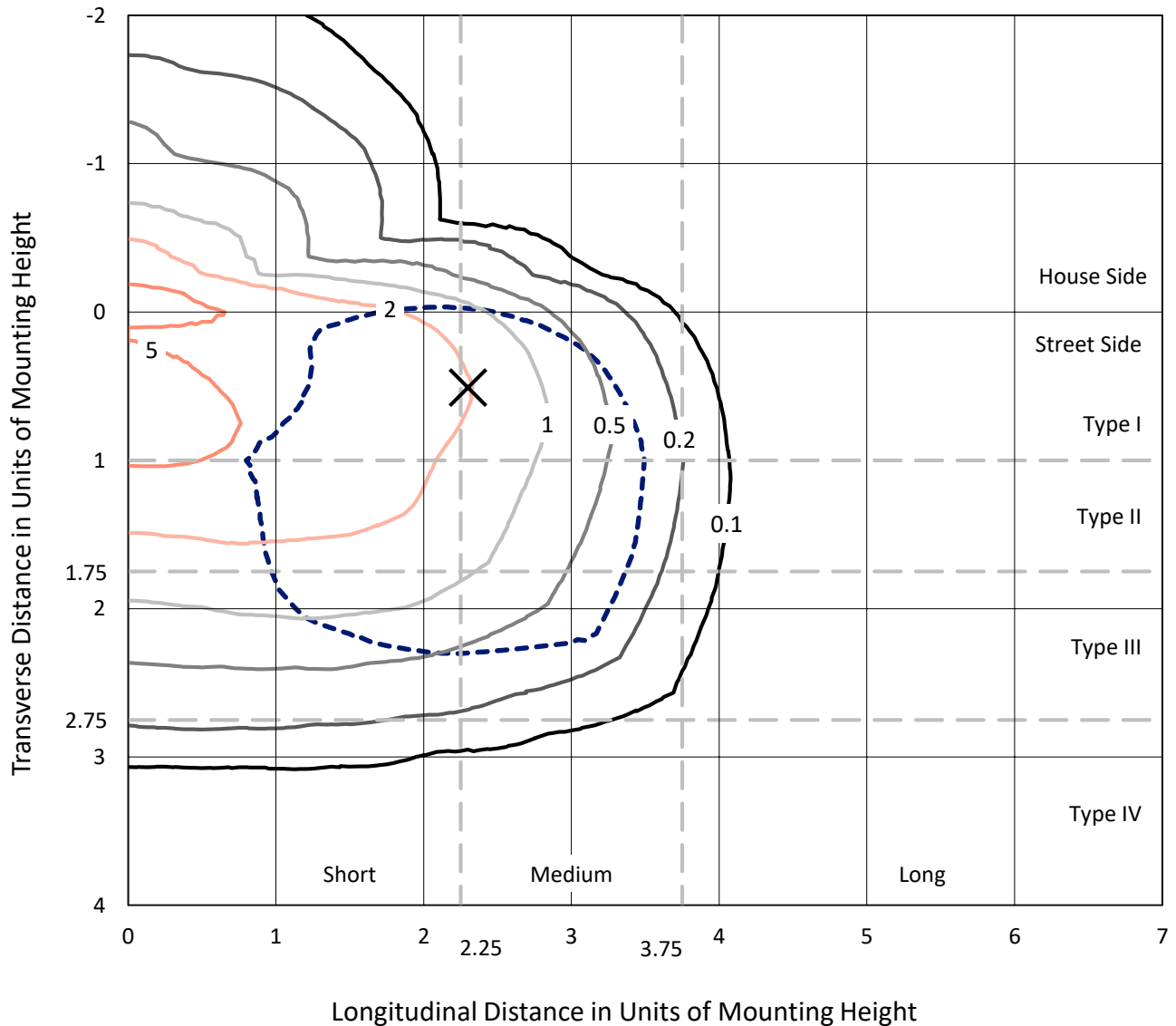
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

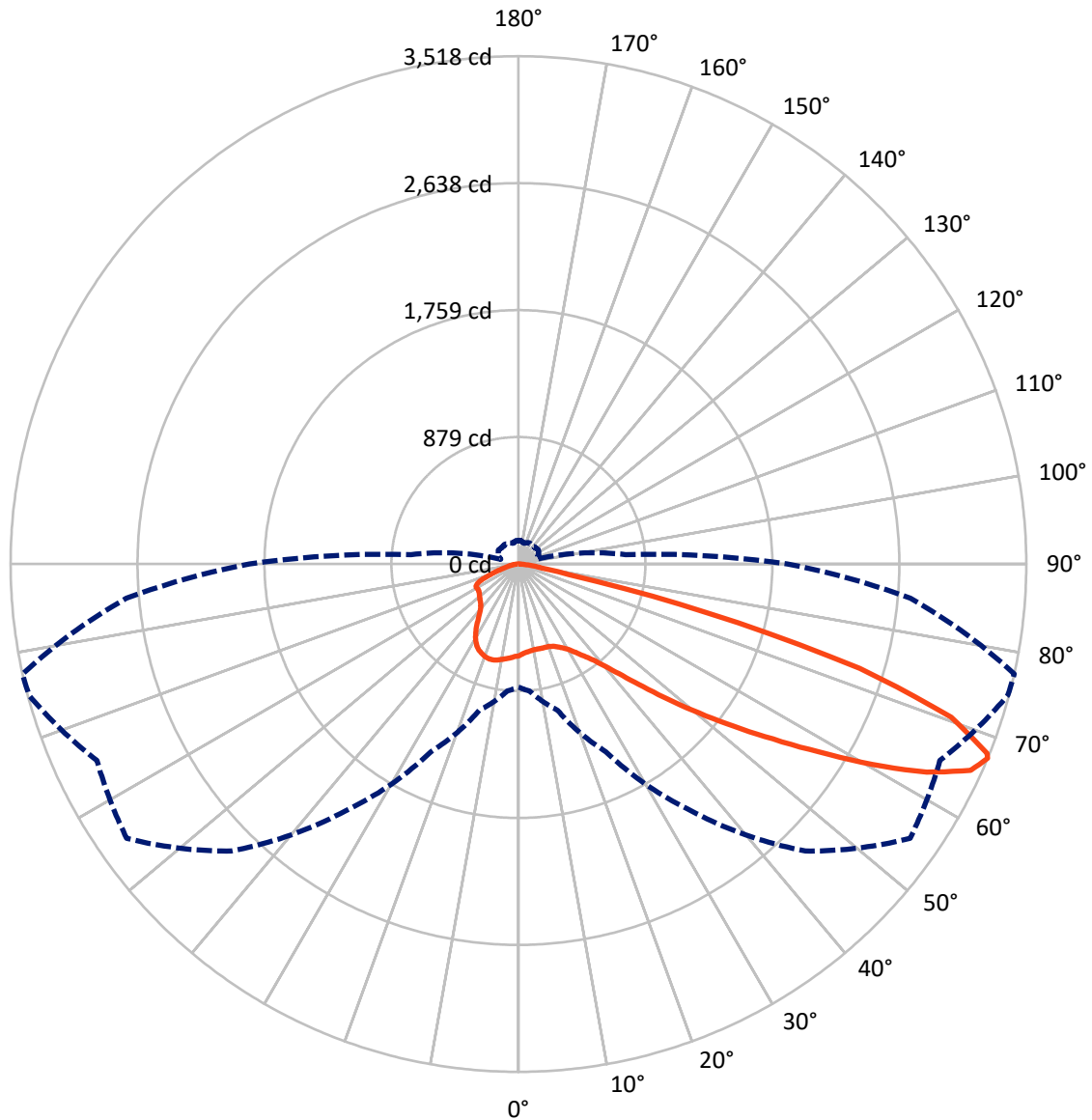
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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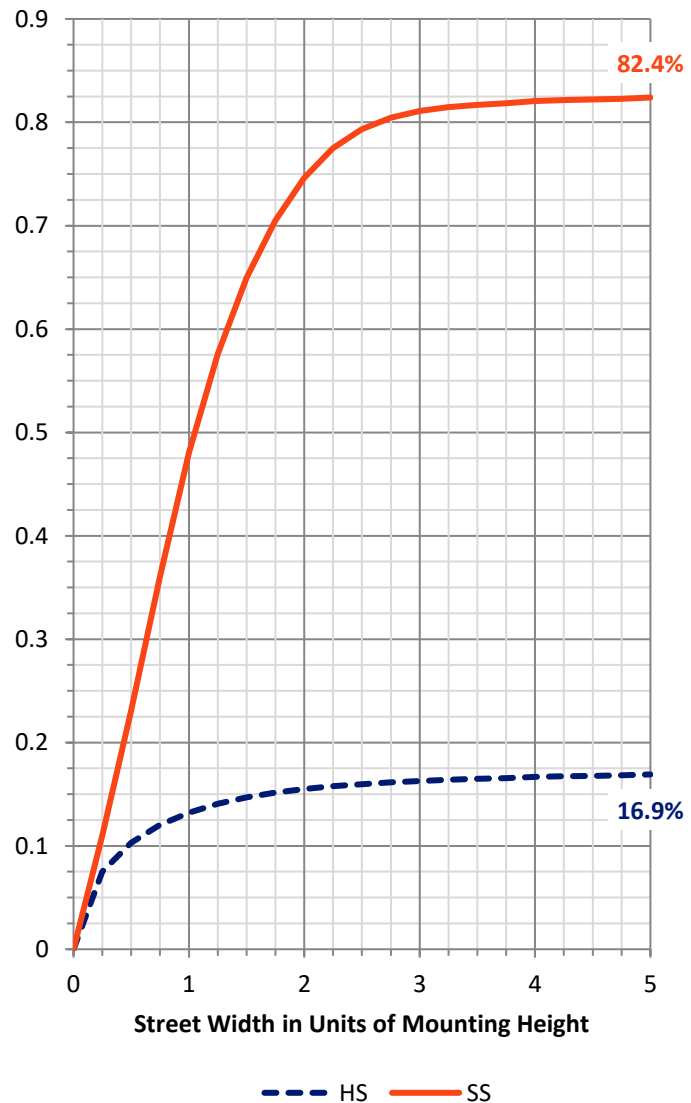
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.1	0.0	742.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3576.4	0.0	3576.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	4318.5	0.0	4318.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.3
10°-20°	156.8	3.6
20°-30°	266.4	6.2
30°-40°	426.1	9.9
40°-50°	656.0	15.2
50°-60°	910.1	21.1
60°-70°	1214.1	28.1
70°-80°	577.8	13.4
80°-90°	54.7	1.3
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°	4318.5	100.0
0°-180°	4318.5	100.0



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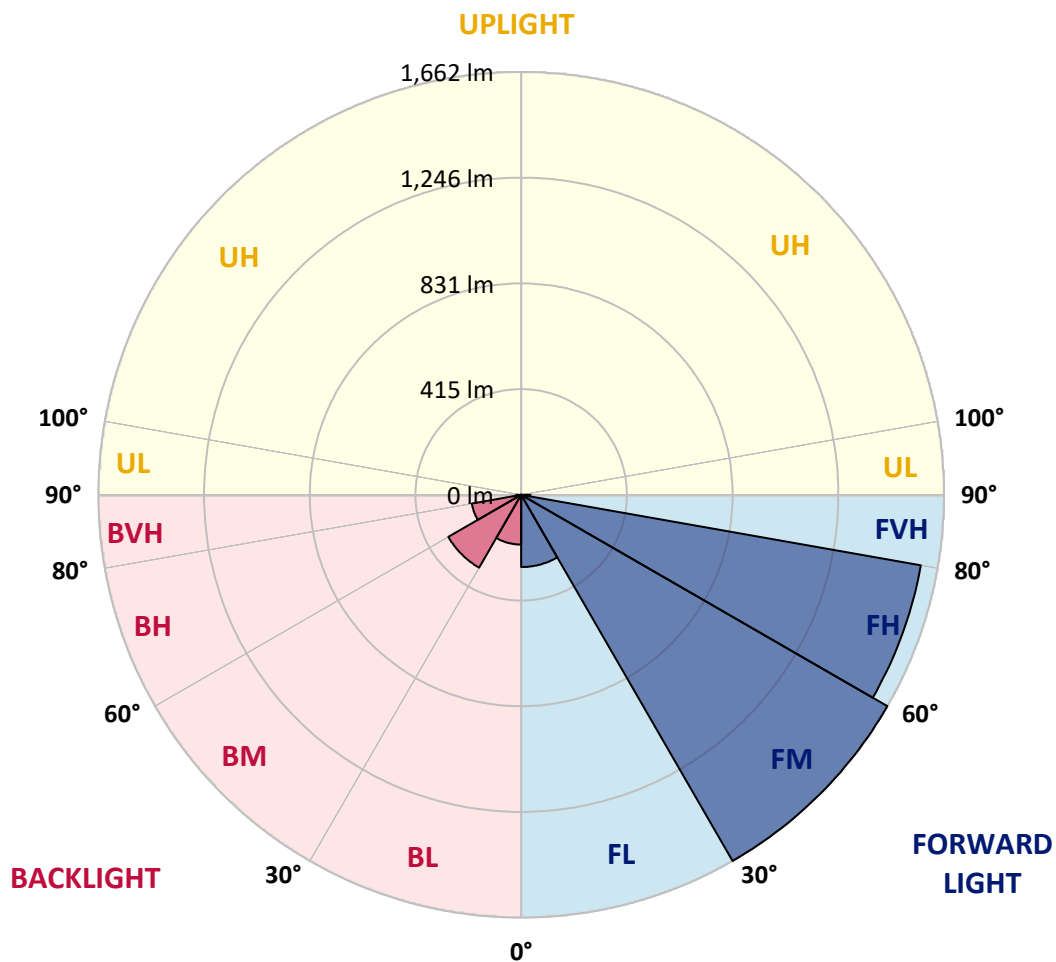
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.0	6.6			
FM	(30°-60°)	1661.8	38.5			
FH	(60°-80°)	1595.1	36.9			G1/1800
FVH	(80°-90°)	35.5	0.8			G1/100
BL	(0°-30°)	195.7	4.5	B1/500		
BM	(30°-60°)	330.4	7.7	B1/1000		
BH	(60°-80°)	196.8	4.6	B1/500		G1/500
BVH	(80°-90°)	19.2	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6
2.5°	570.0	572.6	572.8	580.6	584.1	592.8	602.5	610.9	618.6	621.2	625.9
5°	512.8	512.8	513.7	518.6	528.6	542.7	562.7	584.5	607.6	613.2	627.2
7.5°	482.8	483.4	483.9	489.0	496.8	509.2	529.3	559.3	597.5	606.7	631.6
10°	485.5	484.7	482.1	481.0	484.2	492.2	509.6	540.3	588.8	603.3	639.4
12.5°	527.5	525.9	517.1	504.3	492.5	489.5	501.6	530.7	584.8	603.3	652.3
15°	599.3	600.3	583.0	556.3	525.6	504.8	503.2	527.1	583.4	604.9	667.6
17.5°	692.8	693.2	669.1	630.5	579.5	536.6	514.1	527.1	583.4	606.4	682.4
20°	791.9	788.3	761.0	712.4	646.2	580.6	534.1	530.4	585.2	609.0	696.1
22.5°	877.1	873.7	845.1	794.1	718.4	632.6	561.1	541.0	593.9	618.8	715.7
25°	951.7	953.8	926.1	868.7	790.1	691.3	601.4	565.7	612.4	636.7	739.7
27.5°	1042.2	1038.1	1006.1	951.3	864.1	752.2	651.9	596.7	634.3	658.3	769.0
30°	1146.7	1144.9	1101.6	1045.3	945.5	820.3	701.8	630.0	662.8	687.9	805.9
32.5°	1273.7	1273.5	1227.2	1157.9	1037.1	897.1	760.8	675.6	704.5	729.9	854.7
35°	1417.6	1417.4	1369.3	1278.1	1142.5	982.3	830.2	731.1	756.0	782.7	912.9
37.5°	1517.5	1515.9	1490.8	1402.3	1259.2	1081.4	916.9	805.9	814.5	844.2	983.1
40°	1536.7	1546.3	1568.0	1515.7	1386.4	1191.3	1003.9	886.2	894.3	932.7	1071.5
42.5°	1515.9	1528.5	1600.3	1615.0	1513.9	1324.6	1112.8	997.6	1007.7	1055.5	1175.3
45°	1497.7	1508.8	1598.7	1669.9	1639.4	1469.7	1248.7	1133.4	1152.6	1212.0	1293.7
47.5°	1466.8	1477.0	1567.2	1679.8	1711.4	1609.7	1412.3	1296.8	1329.9	1401.6	1428.9
50°	1465.2	1469.7	1524.2	1646.8	1736.2	1715.9	1593.7	1488.0	1538.5	1621.4	1578.4
52.5°	1424.6	1456.4	1505.7	1593.9	1736.7	1777.7	1772.1	1697.4	1775.7	1867.1	1742.4
55°	1176.4	1212.9	1444.4	1568.0	1733.5	1830.9	1935.3	1920.3	2042.6	2139.0	1926.0
57.5°	1098.4	1113.9	1267.1	1575.6	1760.1	1918.7	2098.4	2159.7	2348.0	2453.1	2146.2
60°	1077.1	1093.3	1231.7	1579.5	1832.5	2078.6	2319.7	2430.2	2707.0	2818.5	2396.3
62.5°	1053.4	1074.5	1234.4	1583.0	1959.6	2315.1	2613.3	2723.5	3075.6	3175.1	2630.6
65°	984.0	1011.9	1185.0	1561.1	2098.6	2611.9	3001.3	3029.4	3380.2	3443.5	2772.1
67°	852.3	883.0	1049.3	1434.6	2085.9	2811.9	3312.0	3220.9	3509.7	3517.5	2726.1
67.5°	810.7	842.4	1003.3	1382.0	2049.3	2838.0	3366.8	3247.3	3508.6	3500.1	2683.4
70°	545.9	581.7	710.6	1014.6	1643.8	2641.3	3353.6	3165.8	3278.5	3180.4	2305.5
72.5°	271.0	271.9	354.6	555.7	996.0	1894.4	2797.5	2708.3	2657.5	2472.7	1691.9
75°	130.6	132.9	167.4	245.5	419.9	978.1	1907.8	1827.4	1556.0	1347.2	846.7
77.5°	99.5	102.0	130.1	159.9	175.1	319.0	944.9	763.6	450.9	360.1	238.6
80°	76.8	81.4	109.8	122.8	115.8	127.9	297.1	233.7	175.3	160.9	118.2
82.5°	60.0	62.7	93.2	93.2	80.0	85.7	138.2	135.0	109.0	98.3	63.5
85°	42.4	47.8	75.0	69.3	52.6	53.1	82.7	79.3	56.1	45.2	24.9
87.5°	19.0	24.3	53.4	45.4	28.0	21.6	33.9	29.0	22.2	17.1	11.5
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°	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6
2.5°	631.2	635.6	642.3	646.2	651.6	653.7	655.9	659.5	662.5	661.7	660.4
5°	637.2	644.4	652.7	655.4	655.4	652.7	651.0	651.4	650.6	650.1	648.3
7.5°	645.7	655.7	661.4	658.7	650.6	640.1	630.3	624.3	618.8	615.2	616.3
10°	657.6	668.7	669.0	657.2	637.4	614.8	595.2	582.7	570.8	565.4	567.0
12.5°	675.0	686.0	676.7	651.4	616.6	581.2	545.4	519.5	496.3	490.7	489.0
15°	693.9	702.4	681.5	638.8	586.8	528.3	468.1	429.5	403.6	399.0	397.5
17.5°	710.0	714.8	679.1	616.3	539.5	447.4	377.5	351.2	345.9	348.6	348.6
20°	724.5	722.9	668.7	581.7	465.1	357.6	317.1	316.8	324.1	330.8	331.3
22.5°	742.5	730.1	652.1	530.1	376.1	298.4	291.5	298.4	306.4	313.9	314.8
25°	764.3	738.0	630.0	456.7	302.4	271.0	273.9	279.7	284.9	290.7	291.0
27.5°	785.8	744.2	598.7	370.6	262.3	253.3	256.6	258.9	260.2	264.0	264.0
30°	810.9	749.0	553.6	296.8	244.0	237.8	236.0	234.8	236.0	241.0	241.4
32.5°	842.4	757.6	491.9	254.7	235.4	226.9	217.3	211.9	215.8	224.8	226.4
35°	878.3	767.7	418.0	237.8	232.5	221.5	203.9	195.7	197.0	205.3	206.6
37.5°	923.1	780.7	345.2	233.7	235.4	221.1	197.7	186.0	180.2	180.5	180.2
40°	980.5	793.8	287.5	234.8	241.9	222.4	194.8	176.4	164.2	164.7	165.7
42.5°	1040.4	802.4	250.9	238.1	249.5	224.2	193.9	167.2	156.5	165.5	173.8
45°	1110.8	800.0	231.9	241.0	255.5	225.0	189.8	166.0	157.3	184.4	200.0
47.5°	1191.3	789.6	221.3	242.5	257.1	224.8	186.8	169.5	163.9	211.1	228.8
50°	1278.8	773.4	212.8	240.2	256.2	223.7	190.0	173.8	166.5	217.0	230.7
52.5°	1374.8	758.3	203.9	235.4	252.2	220.4	194.0	171.8	159.1	200.0	210.4
55°	1488.1	754.8	194.0	227.1	245.5	217.0	191.9	166.0	150.8	177.2	183.7
57.5°	1617.8	776.6	181.3	217.0	236.6	210.1	186.8	162.9	148.0	161.2	164.7
60°	1782.5	824.3	167.7	206.3	225.2	199.7	182.4	163.6	148.7	158.8	159.5
62.5°	1911.2	867.3	155.3	193.2	210.4	187.1	177.5	164.4	151.1	162.1	160.6
65°	1957.9	846.2	140.1	173.8	189.3	173.3	170.9	165.0	151.1	163.9	160.9
67°	1862.1	745.6	125.8	154.2	169.2	160.9	164.4	162.9	148.4	163.6	158.6
67.5°	1816.6	710.0	122.0	151.1	163.9	157.3	162.9	161.8	147.6	163.1	157.3
70°	1498.1	509.2	103.0	126.8	137.3	138.6	152.9	154.8	141.3	153.3	142.6
72.5°	1065.8	318.7	88.9	98.3	110.9	118.5	139.5	145.4	132.7	133.2	124.3
75°	527.5	171.0	79.3	75.7	86.1	98.8	121.7	132.7	120.2	111.0	108.1
77.5°	178.0	96.8	67.1	61.2	67.1	79.3	100.9	115.8	106.0	94.0	92.0
80°	92.0	70.4	52.3	49.0	52.9	61.4	79.1	96.4	90.5	91.0	75.0
82.5°	57.4	42.9	37.5	37.4	40.1	47.0	58.2	78.2	77.7	66.5	48.2
85°	26.7	24.9	24.1	24.9	25.6	26.7	37.9	55.8	59.0	35.8	31.8
87.5°	11.1	11.0	9.6	10.4	11.5	11.1	15.2	23.7	33.1	22.4	20.5
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)