

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: P198724

Luminaire Tested: **XNV-AF-01-LED-U-SL4-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-SL4-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.4 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

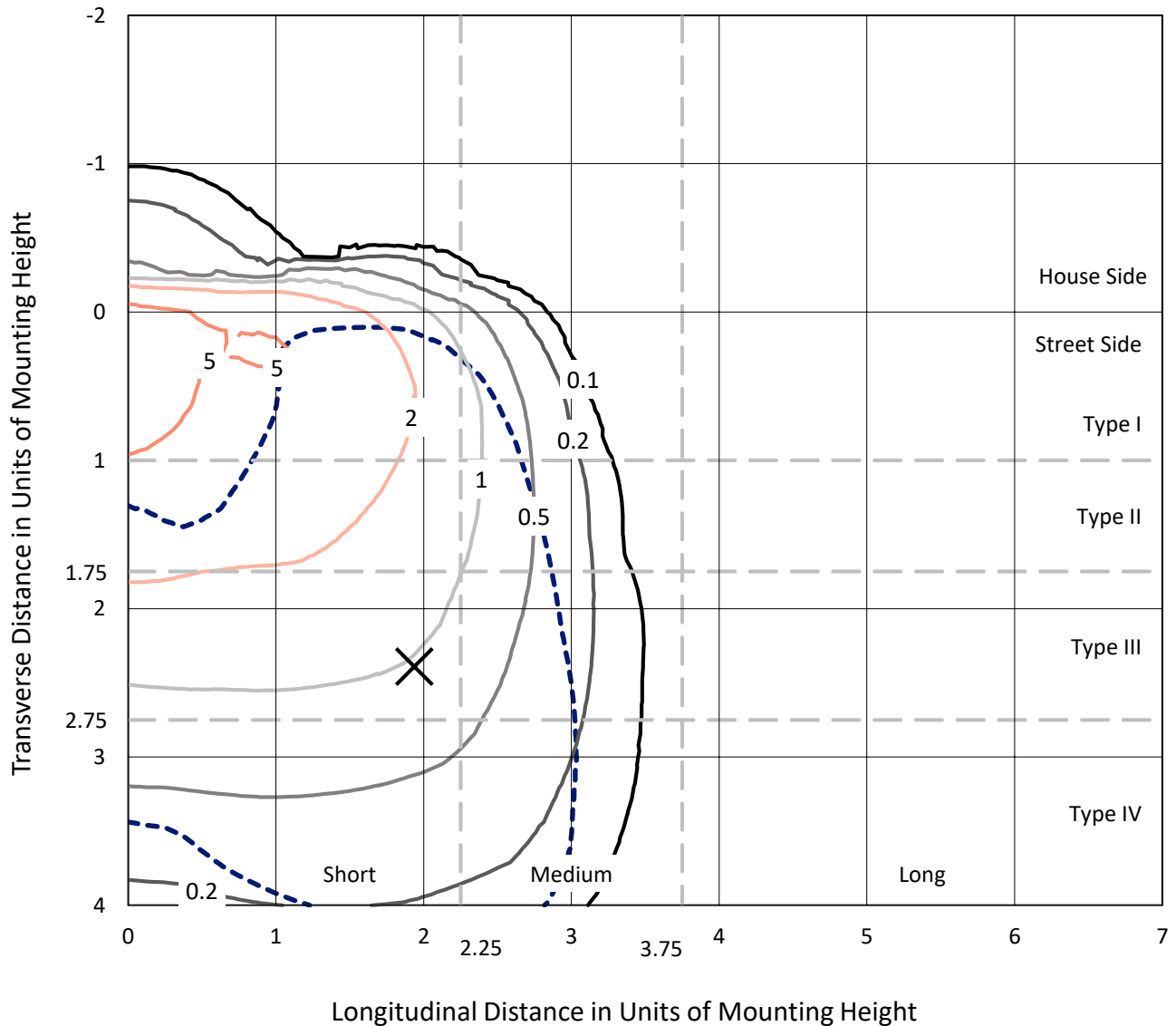
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

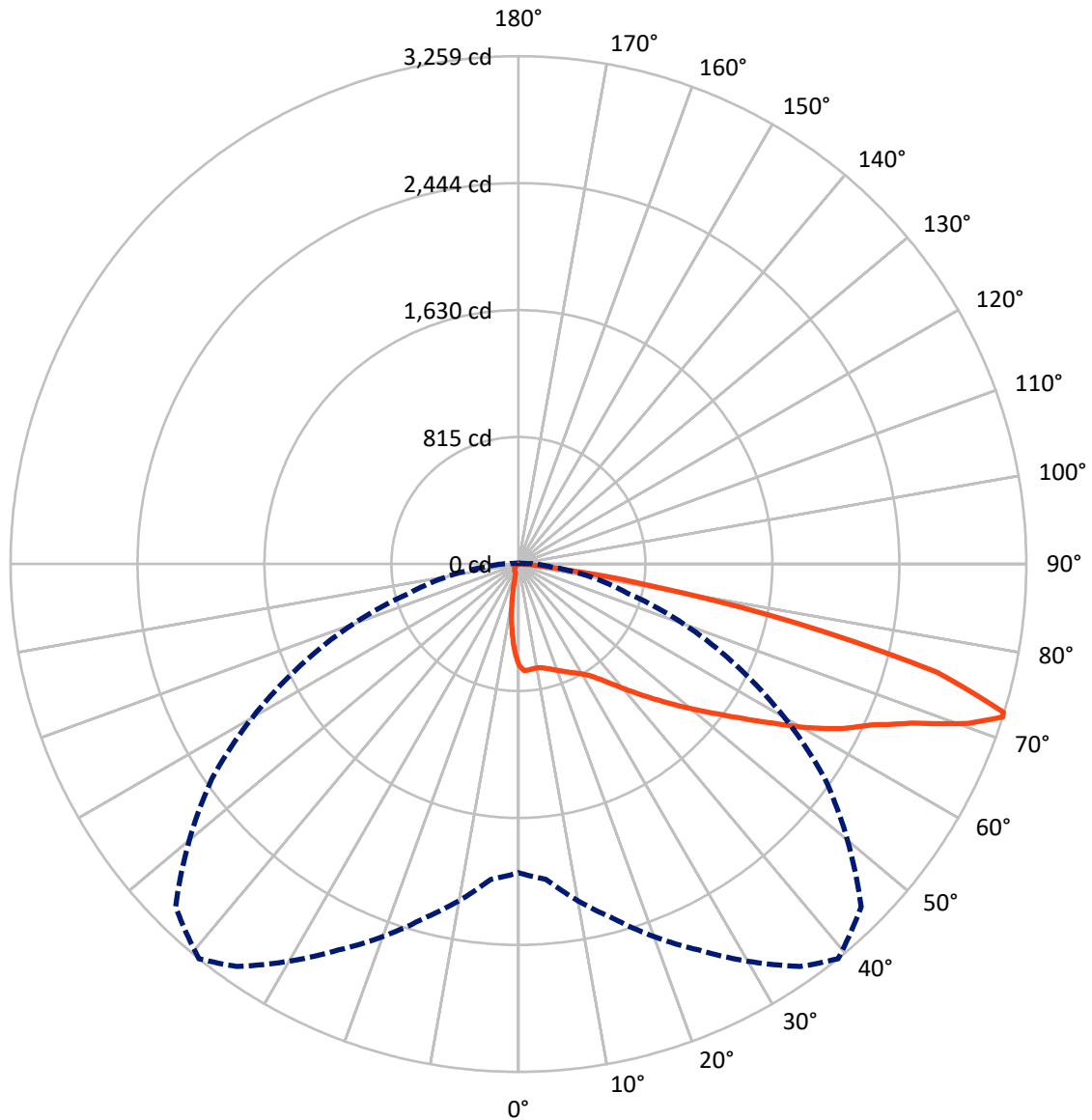
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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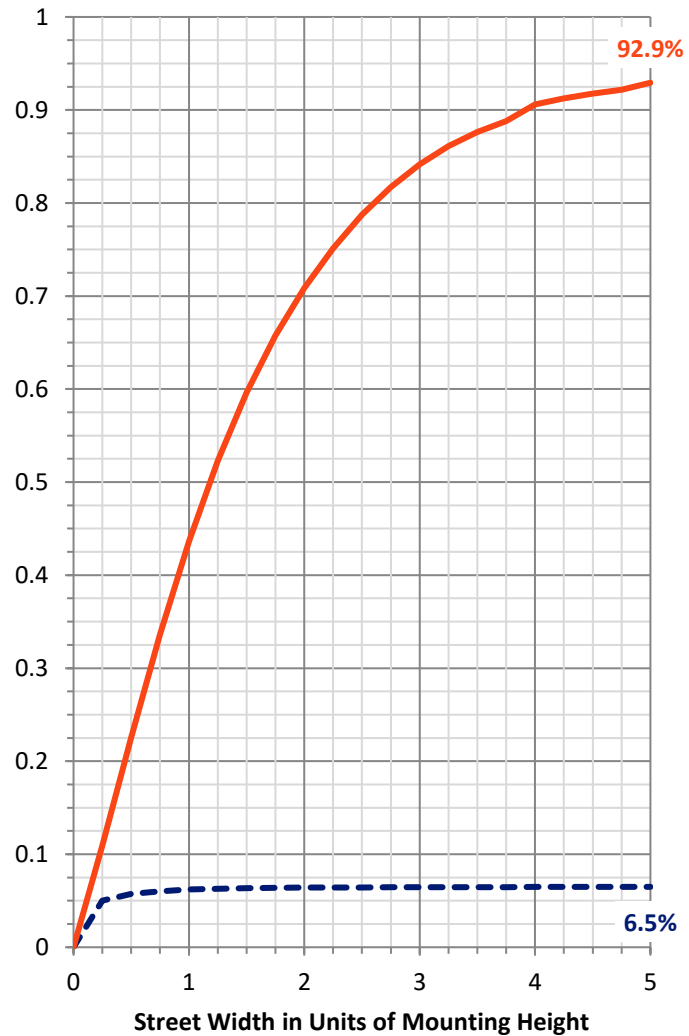
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	267.0	0.0	267.0
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	3806.4	0.0	3806.4
	% Fixture	93.4	0.0	93.4
Total	Lumens	4073.4	0.0	4073.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	1.3
10°-20°	128.4	3.2
20°-30°	213.2	5.2
30°-40°	339.8	8.3
40°-50°	560.9	13.8
50°-60°	847.1	20.8
60°-70°	1103.5	27.1
70°-80°	745.7	18.3
80°-90°	81.7	2.0
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°	4073.4	100.0
0°-180°	4073.4	100.0



--- HS — SS

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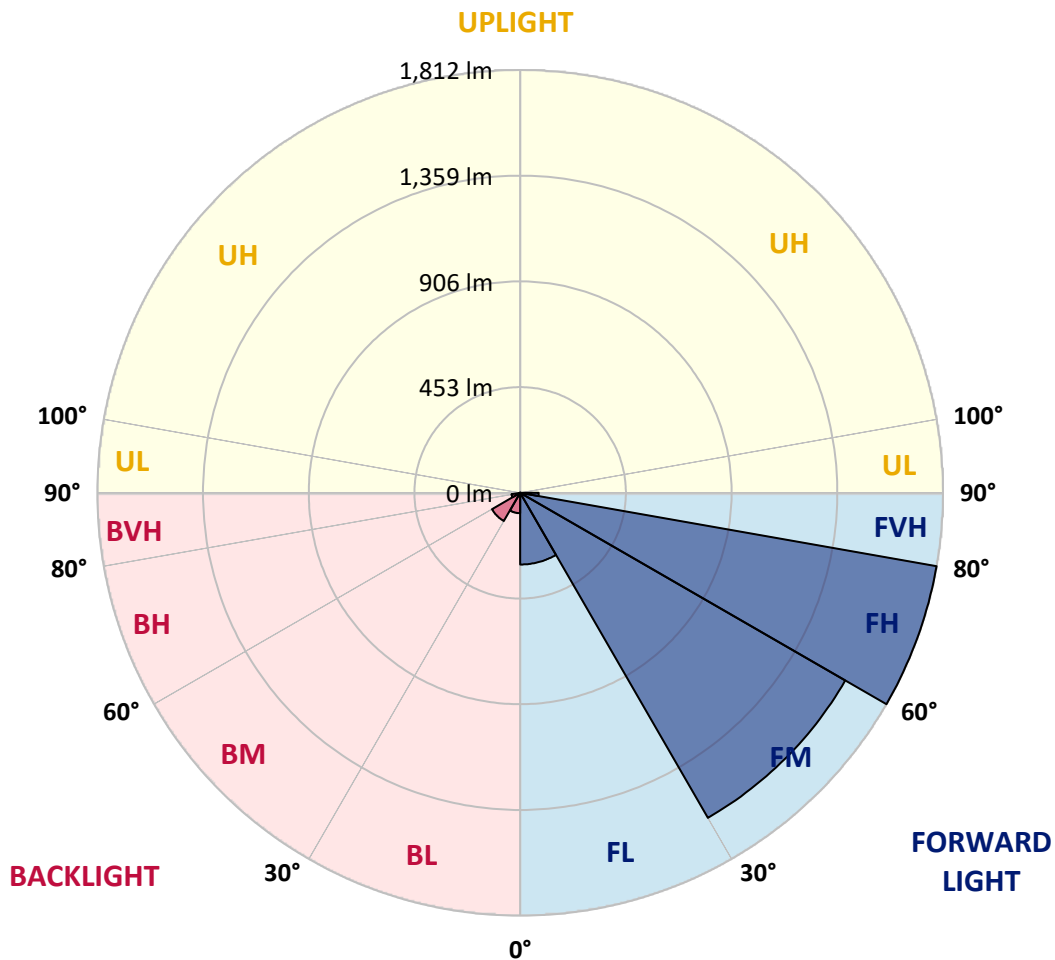
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.2	7.5			
FM	(30°-60°)	1608.2	39.5			
FH	(60°-80°)	1811.7	44.5			G2/5000
FVH	(80°-90°)	79.3	1.9			G1/100
BL	(0°-30°)	87.4	2.1	B0/110		
BM	(30°-60°)	139.7	3.4	B0/220		
BH	(60°-80°)	37.5	0.9	B0/110		G0/110
BVH	(80°-90°)	2.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9
2.5°	694.3	695.5	694.0	691.0	686.9	684.4	680.8	673.1	663.5	655.2	645.6
5°	699.7	700.3	698.4	692.9	686.6	683.0	678.5	670.2	660.3	648.8	631.5
7.5°	701.3	700.9	698.7	692.0	682.1	677.6	669.9	659.7	649.4	638.8	619.3
10°	700.6	700.6	699.1	692.6	681.4	677.3	668.6	657.8	645.0	634.3	613.6
12.5°	698.4	699.7	698.7	695.2	686.9	683.6	676.0	665.1	652.9	642.0	619.9
15°	701.3	703.2	705.1	703.9	699.1	696.1	689.2	677.9	668.0	656.4	632.8
17.5°	712.8	717.0	721.5	721.8	716.7	711.6	703.5	692.0	682.4	671.9	646.2
20°	734.6	737.8	746.1	747.7	737.4	730.1	718.9	705.4	695.8	686.9	658.7
22.5°	766.9	770.5	777.1	775.0	757.6	749.0	734.9	719.5	709.6	704.5	673.1
25°	815.9	816.9	818.5	808.5	780.1	770.5	753.2	735.9	727.8	727.2	693.6
27.5°	873.6	874.8	867.8	845.7	805.1	792.6	773.0	757.3	753.5	758.3	719.5
30°	939.6	939.9	920.3	884.4	833.9	820.1	799.9	782.7	786.1	798.0	752.9
32.5°	1007.1	1003.9	977.0	930.3	873.3	856.6	839.3	822.0	832.3	856.3	801.5
35°	1068.9	1067.7	1035.9	981.5	924.4	909.7	897.2	879.0	895.7	934.8	867.8
37.5°	1130.7	1129.7	1093.5	1036.9	987.6	977.0	967.7	953.6	980.8	1038.2	956.5
40°	1198.9	1197.3	1152.8	1098.3	1060.9	1055.2	1049.6	1043.6	1090.1	1169.7	1066.9
42.5°	1283.1	1276.1	1215.6	1165.2	1141.6	1143.1	1143.6	1149.6	1222.3	1326.4	1197.3
45°	1379.9	1364.1	1278.7	1237.1	1230.3	1239.9	1249.5	1274.8	1376.3	1506.6	1341.4
47.5°	1473.7	1448.4	1351.3	1314.2	1328.0	1347.8	1370.9	1420.2	1549.3	1695.2	1472.0
50°	1554.4	1528.4	1423.4	1392.6	1436.5	1466.0	1507.0	1581.6	1731.8	1854.7	1554.4
52.5°	1617.8	1597.2	1499.6	1479.1	1556.9	1597.2	1661.7	1759.6	1904.0	1959.8	1612.0
55°	1664.5	1654.3	1572.6	1575.4	1690.7	1749.0	1829.1	1939.9	2049.4	2041.4	1655.2
57.5°	1717.3	1709.4	1649.1	1689.2	1851.8	1927.1	2019.6	2108.7	2155.1	2107.1	1697.5
60°	1771.4	1774.0	1742.0	1826.9	2051.0	2134.3	2215.0	2237.1	2245.7	2173.7	1742.0
62.5°	1812.5	1823.3	1826.3	1975.4	2255.3	2326.4	2361.3	2345.6	2343.7	2263.0	1738.5
65°	1859.5	1888.1	1935.4	2138.5	2441.1	2487.8	2512.8	2535.5	2487.5	2289.6	1567.5
67.5°	1940.8	1985.6	2092.3	2338.3	2655.6	2724.7	2795.5	2771.5	2509.0	2019.6	1194.1
70°	2050.4	2105.1	2293.5	2599.2	2946.7	3062.6	3121.8	2752.7	2130.1	1395.5	629.8
72°	1981.3	2030.9	2355.5	2732.5	3152.9	3259.2	3111.0	2401.1	1544.1	723.4	211.0
72.5°	1913.9	1965.2	2335.7	2730.9	3173.4	3254.7	3040.2	2262.4	1366.4	562.9	145.4
75°	1328.0	1392.6	2002.3	2454.8	2865.7	2776.3	2326.1	1369.9	495.1	96.7	48.1
77.5°	686.6	736.5	1214.7	1734.6	1997.2	1829.1	1374.7	594.3	137.1	51.2	31.7
80°	425.5	450.2	568.0	854.7	1037.5	907.5	606.5	240.2	87.8	30.4	25.3
82.5°	220.3	239.2	357.7	344.8	383.3	318.6	223.8	201.1	54.1	18.9	26.0
85°	72.3	76.8	219.6	229.2	164.0	110.2	99.2	191.8	15.7	12.2	22.1
87.5°	9.6	11.3	77.1	131.2	80.7	49.9	59.5	67.6	5.4	6.8	6.0
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°	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9	651.9
2.5°	639.1	635.0	621.9	608.8	593.7	579.9	569.1	562.0	565.2	554.6	556.2
5°	620.9	610.3	581.5	550.4	516.8	485.5	460.4	441.9	438.3	422.4	423.0
7.5°	603.3	586.0	539.3	488.0	432.3	387.2	346.2	310.3	297.5	284.4	276.7
10°	593.7	570.0	503.7	429.1	350.7	284.4	226.7	181.6	162.6	148.9	142.2
12.5°	596.6	565.2	477.1	375.6	272.5	188.3	128.1	95.1	83.6	77.1	75.0
15°	606.2	566.2	453.1	323.5	198.2	114.0	75.3	64.3	63.4	63.1	62.8
17.5°	615.1	567.1	427.8	269.0	132.6	72.7	60.6	59.5	59.5	59.5	59.5
20°	624.4	567.4	400.0	212.0	87.1	59.5	57.0	56.4	57.0	57.0	57.0
22.5°	635.4	569.7	373.1	156.6	64.3	56.1	54.4	54.1	54.4	54.4	54.1
25°	648.8	574.5	343.9	112.1	58.3	53.8	52.2	51.9	52.2	51.9	51.9
27.5°	666.7	580.9	310.0	80.4	55.8	51.6	49.9	49.9	49.9	49.6	49.6
30°	689.8	588.6	264.5	63.4	53.2	49.3	48.1	48.1	47.7	47.4	47.4
32.5°	722.7	601.1	214.8	57.3	50.2	46.4	45.1	45.5	45.1	44.8	44.5
35°	769.5	620.6	165.9	54.1	47.4	43.6	42.2	42.2	42.2	41.6	41.6
37.5°	835.8	650.4	124.3	50.9	44.5	40.7	39.1	39.1	38.8	38.2	38.5
40°	917.8	687.8	90.0	48.1	41.6	37.4	36.2	35.5	34.9	34.3	34.3
42.5°	1016.4	724.4	67.6	45.1	38.8	34.9	33.3	32.6	31.4	30.8	30.4
45°	1126.9	763.1	56.1	41.6	35.5	32.0	30.8	29.5	27.8	26.9	26.6
47.5°	1220.1	786.8	49.9	38.2	32.3	29.2	27.8	26.0	24.0	23.4	23.4
50°	1276.1	776.8	44.8	34.6	29.2	26.3	24.7	22.1	20.8	20.2	19.8
52.5°	1307.4	747.4	40.7	31.7	26.3	23.0	20.8	18.6	17.9	17.3	17.3
55°	1328.9	704.8	36.2	28.8	23.7	20.2	17.6	16.1	15.3	15.0	14.7
57.5°	1349.4	652.9	32.0	26.3	21.2	17.9	15.0	14.4	13.1	12.8	12.8
60°	1355.5	581.5	28.1	23.4	18.9	15.7	13.1	12.2	10.8	10.5	10.5
62.5°	1278.0	462.7	25.0	19.8	16.7	13.4	11.6	10.2	9.0	9.0	9.0
65°	1068.0	314.1	21.5	17.3	14.7	11.6	9.9	8.3	7.7	7.7	7.7
67.5°	743.9	175.1	18.2	14.7	12.5	9.6	8.3	7.1	6.8	7.1	7.1
70°	335.3	69.5	15.3	12.2	10.2	8.0	7.1	6.0	6.8	6.8	6.8
72°	100.6	37.1	12.8	9.9	8.3	7.1	6.0	5.7	6.4	6.8	6.8
72.5°	74.6	33.3	12.2	9.6	8.3	6.8	5.7	5.7	6.4	6.8	6.8
75°	38.5	22.7	9.3	7.1	6.0	5.4	4.8	5.4	6.4	6.4	6.4
77.5°	30.1	18.6	7.7	5.4	5.1	4.8	4.5	5.1	5.7	5.7	5.7
80°	28.1	12.2	6.0	5.1	4.5	4.2	4.2	4.5	5.1	5.4	5.4
82.5°	28.5	9.9	5.4	4.8	4.2	3.9	3.9	4.2	4.8	5.1	5.1
85°	18.2	6.8	4.8	4.2	3.9	3.5	3.5	3.9	4.5	4.8	4.8
87.5°	6.0	5.1	4.2	3.9	3.2	3.2	3.2	3.2	3.9	4.2	4.5
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)