

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: McGRAW-EDISON

Report Number: P301861

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL4-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3591.4 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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: 25 FT

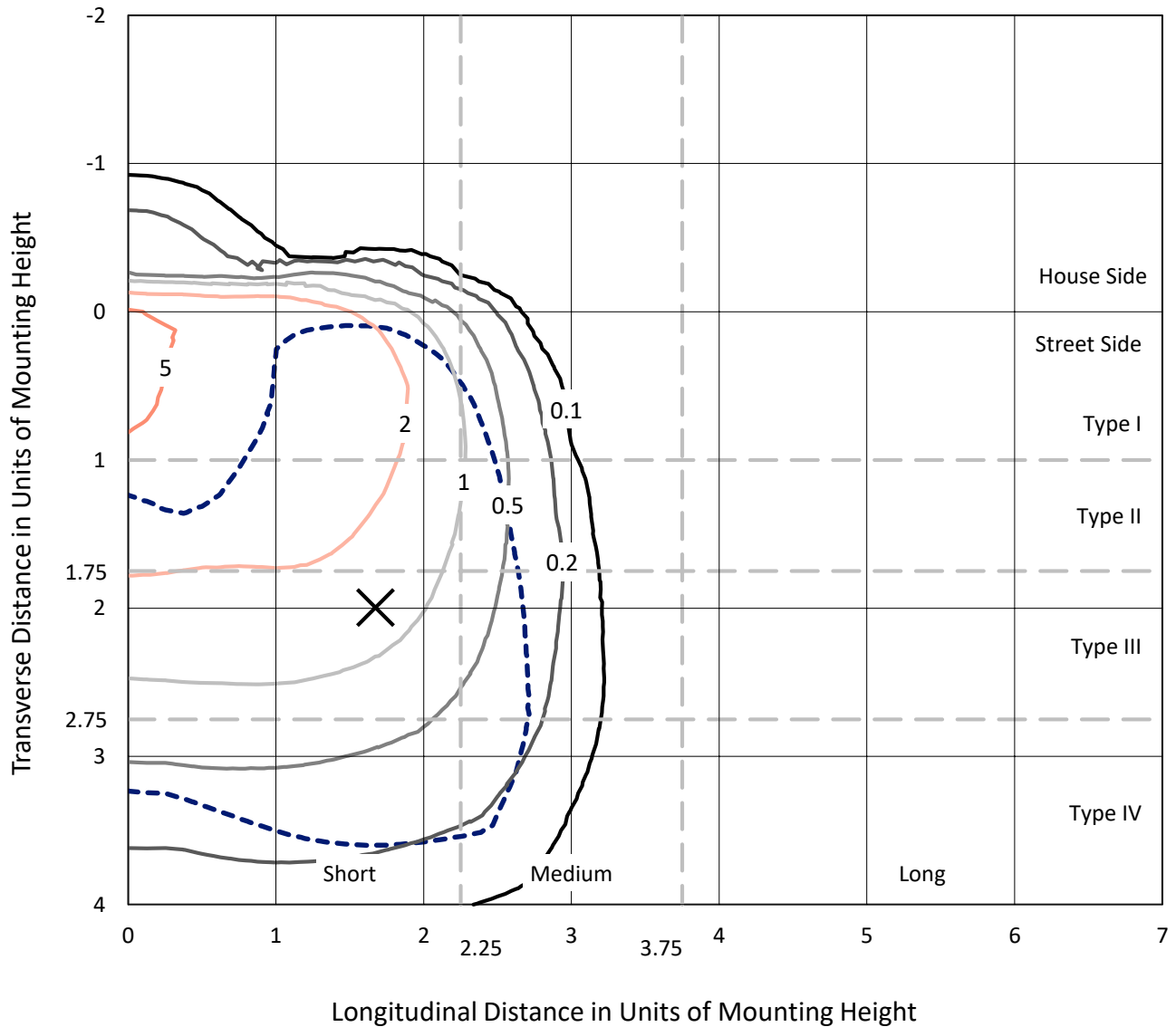


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

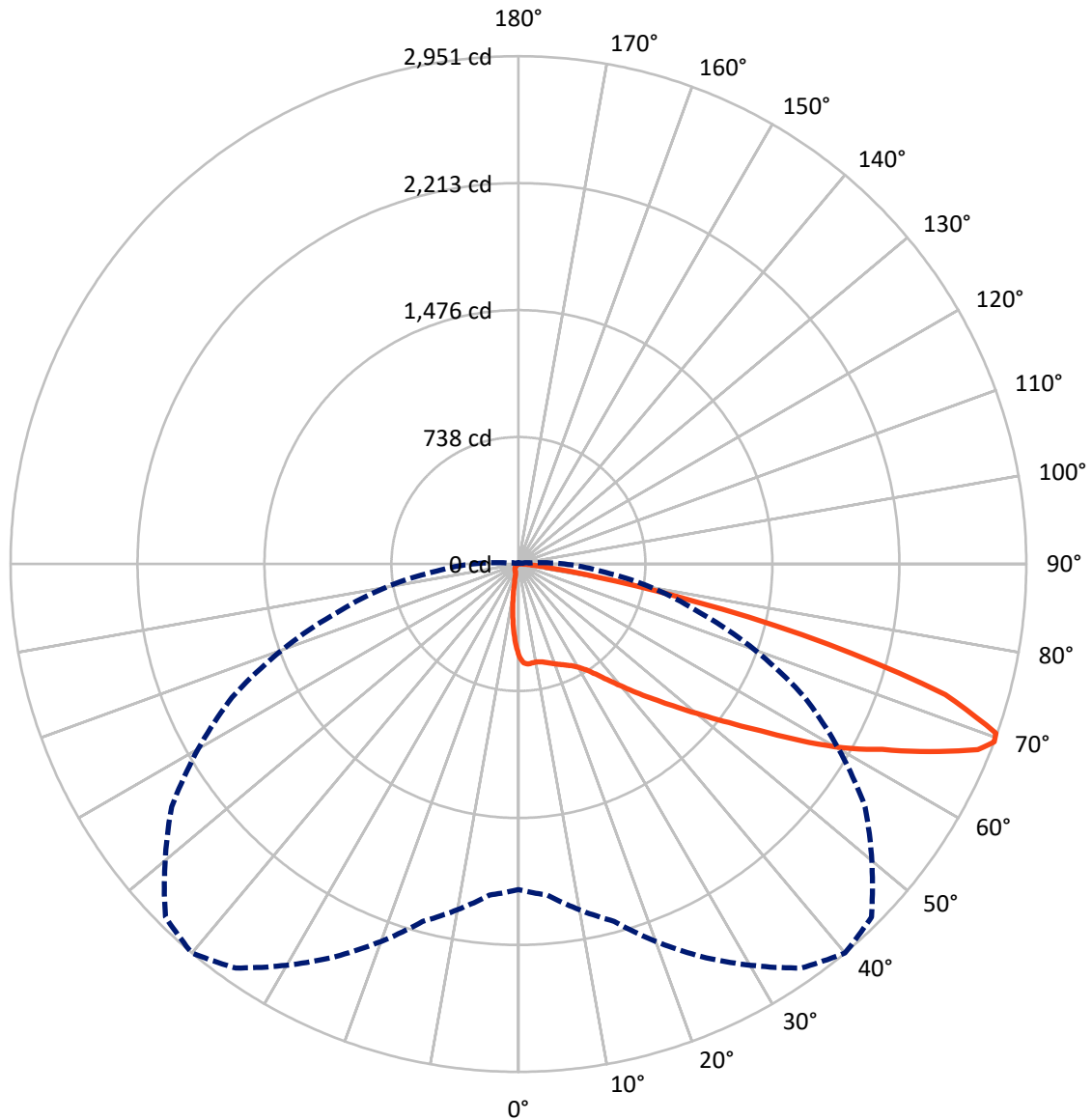


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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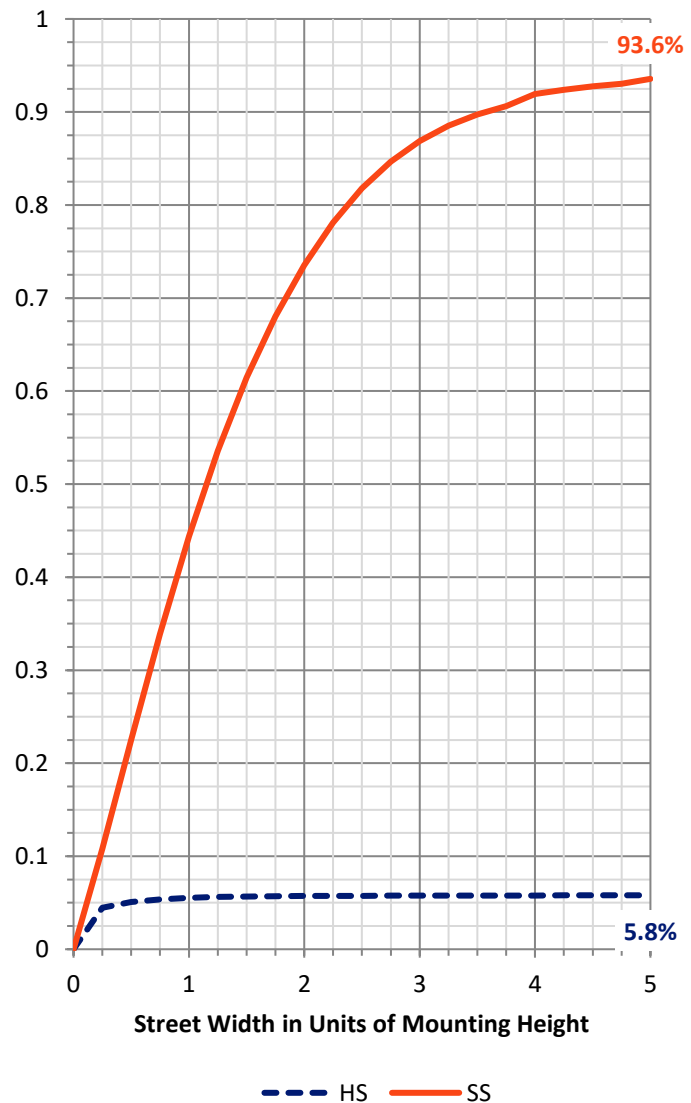
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	210.1	0.0	210.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3381.3	0.0	3381.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	3591.4	0.0	3591.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.2
10°-20°	107.0	3.0
20°-30°	180.2	5.0
30°-40°	295.0	8.2
40°-50°	510.8	14.2
50°-60°	804.5	22.4
60°-70°	1050.7	29.3
70°-80°	541.2	15.1
80°-90°	58.5	1.6
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°	3591.4	100.0
0°-180°	3591.4	100.0



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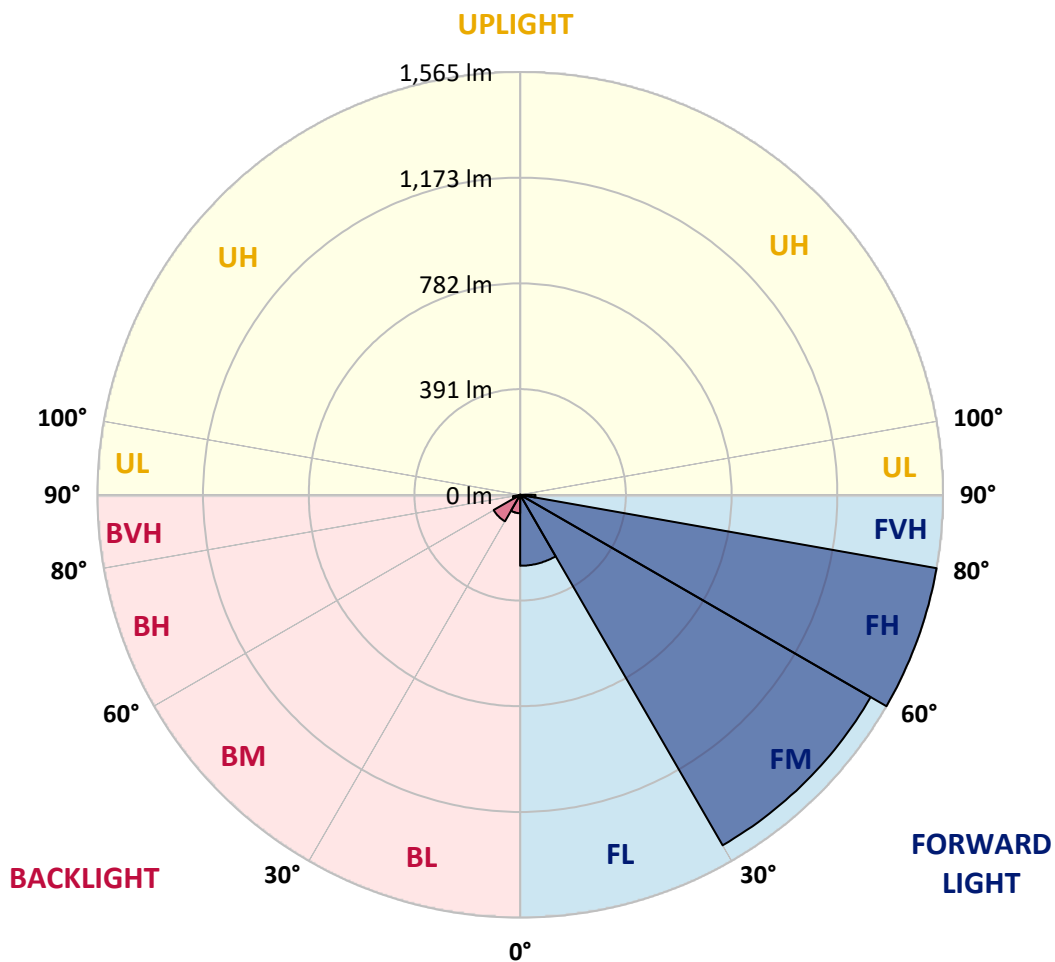
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.6	7.3			
FM	(30°-60°)	1497.4	41.7			
FH	(60°-80°)	1564.6	43.6			G1/1800
FVH	(80°-90°)	56.7	1.6			G1/100
BL	(0°-30°)	68.1	1.9	B0/110		
BM	(30°-60°)	112.9	3.1	B0/220		
BH	(60°-80°)	27.3	0.8	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	589.2	586.0	584.0	581.5	578.3	575.5	574.4	566.5	559.0	548.8	537.0
5°	600.1	599.0	595.6	592.2	588.3	584.0	581.7	572.3	561.6	546.6	526.1
7.5°	601.1	599.9	595.6	590.9	585.5	580.4	576.3	566.9	557.1	541.9	516.9
10°	599.4	597.9	594.7	589.6	583.0	578.1	574.0	565.0	556.7	543.0	515.2
12.5°	597.5	596.0	594.5	591.9	586.2	582.8	579.3	570.8	563.3	551.8	521.4
15°	599.4	598.6	600.3	599.2	596.0	593.0	589.6	581.9	575.1	565.4	532.7
17.5°	607.6	607.6	612.9	613.5	610.5	606.3	601.4	593.7	587.9	579.8	546.2
20°	626.6	625.9	632.8	634.1	626.8	620.2	612.9	603.5	599.0	593.9	559.5
22.5°	659.3	656.3	660.4	659.1	644.7	634.5	625.5	614.0	611.6	609.3	574.2
25°	701.8	700.1	702.9	690.3	665.1	651.2	640.5	627.4	627.4	629.8	590.9
27.5°	763.6	757.2	747.8	725.6	687.7	670.0	658.4	644.5	648.2	656.9	612.9
30°	826.9	819.8	798.2	764.0	715.3	696.7	683.2	668.7	677.2	693.3	642.4
32.5°	889.3	881.4	850.8	807.6	754.8	736.2	723.2	707.2	721.5	748.4	685.6
35°	949.8	942.8	907.5	856.6	807.4	792.0	780.1	766.2	784.6	822.2	746.5
37.5°	1017.8	1010.1	967.1	912.0	871.4	860.2	851.5	837.6	869.6	924.8	831.4
40°	1101.4	1088.3	1030.4	975.5	945.3	940.0	934.0	932.1	981.9	1058.2	944.5
42.5°	1197.1	1175.8	1096.7	1042.4	1026.6	1030.4	1028.9	1037.5	1122.3	1224.1	1082.1
45°	1292.9	1265.3	1170.4	1113.8	1115.9	1129.4	1137.7	1171.9	1298.3	1414.3	1230.3
47.5°	1374.2	1347.0	1241.2	1190.9	1216.6	1243.1	1265.8	1330.5	1479.1	1601.6	1345.5
50°	1443.6	1418.0	1316.2	1275.8	1333.5	1376.3	1413.1	1509.0	1673.7	1744.2	1426.3
52.5°	1500.5	1483.4	1394.0	1373.1	1467.1	1529.8	1583.7	1698.7	1846.0	1860.1	1489.2
55°	1555.9	1543.7	1477.6	1488.7	1624.1	1709.4	1777.5	1899.8	1994.3	1956.7	1549.4
57.5°	1619.6	1608.5	1573.0	1635.4	1830.4	1937.7	2012.1	2078.1	2124.9	2055.5	1606.3
60°	1684.6	1678.1	1679.0	1798.3	2067.2	2170.3	2211.3	2228.4	2253.2	2148.5	1609.5
62.5°	1746.6	1758.7	1800.2	1979.6	2294.0	2373.1	2393.9	2410.8	2381.7	2163.2	1487.0
65°	1851.5	1871.4	1970.4	2222.2	2543.5	2628.2	2649.5	2591.6	2402.0	1972.5	1209.5
67.5°	1902.8	1939.2	2115.7	2448.4	2785.5	2879.6	2871.7	2603.4	2155.5	1504.1	776.2
69°	1892.1	1930.8	2149.3	2517.6	2865.9	2951.2	2900.9	2459.5	1836.3	1089.6	476.5
70°	1849.8	1888.9	2132.0	2515.1	2876.1	2943.7	2846.6	2281.8	1552.7	796.7	298.0
72.5°	1544.7	1578.5	1892.8	2273.3	2649.5	2594.6	2381.5	1580.9	756.6	217.0	67.1
75°	950.9	969.7	1358.1	1712.6	2001.2	1860.1	1586.6	786.5	225.5	61.4	37.2
77.5°	502.4	510.9	743.5	1009.5	1268.5	1049.6	813.2	306.8	103.9	38.5	26.9
80°	296.9	303.3	400.4	461.5	549.0	458.5	325.2	188.3	74.4	24.2	23.9
82.5°	170.0	174.0	290.3	256.5	216.3	184.7	161.8	178.5	44.7	16.2	24.8
85°	62.4	63.3	163.3	195.2	128.7	76.5	80.4	147.9	12.0	10.3	19.5
87.5°	29.1	28.4	84.0	119.5	75.2	48.5	62.6	32.5	4.7	6.6	5.3
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°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	530.2	522.3	507.9	493.2	478.2	466.7	455.3	446.4	443.4	437.8	438.2
5°	513.9	499.4	469.5	439.1	407.5	381.4	356.8	336.9	327.3	317.5	317.5
7.5°	499.8	478.6	431.8	382.4	331.4	288.4	249.7	220.6	204.6	191.8	191.5
10°	494.5	465.8	400.4	329.6	258.5	199.9	153.9	124.4	109.2	99.4	99.0
12.5°	496.8	461.3	376.2	280.9	191.5	128.5	89.1	70.1	63.7	60.7	60.7
15°	503.7	460.0	352.1	233.2	135.3	80.4	59.2	54.1	53.7	53.7	53.7
17.5°	512.0	460.5	327.3	186.8	92.1	57.5	51.1	50.5	50.9	50.9	50.9
20°	520.5	460.7	300.6	143.9	65.0	50.0	48.1	47.9	48.3	48.3	48.5
22.5°	531.0	461.8	273.8	107.5	53.7	47.2	45.7	45.7	46.0	46.0	45.7
25°	543.0	463.9	246.1	79.7	49.0	45.3	44.0	43.8	44.0	43.8	43.6
27.5°	558.0	466.9	215.1	62.4	46.8	43.4	42.3	42.3	42.1	41.9	41.7
30°	576.8	470.3	180.2	53.0	44.7	41.7	40.6	40.4	40.2	39.8	39.8
32.5°	605.4	477.8	145.8	48.1	42.3	39.3	38.5	38.5	38.1	37.6	37.4
35°	649.5	492.5	115.0	45.1	39.8	36.8	35.7	35.7	35.3	35.1	34.8
37.5°	710.4	515.0	89.4	42.3	37.2	34.0	32.9	32.7	32.3	31.9	31.6
40°	791.4	542.8	70.3	39.8	34.6	31.2	30.4	29.9	29.1	28.4	28.4
42.5°	893.2	574.4	57.1	37.0	31.6	28.6	28.0	27.4	25.9	25.2	25.0
45°	999.6	602.8	48.3	33.8	28.6	26.1	25.7	24.6	22.7	22.0	22.0
47.5°	1076.4	609.5	42.5	30.8	25.9	23.3	23.1	21.2	19.5	19.0	18.8
50°	1124.2	596.4	37.8	27.8	23.3	20.7	20.1	17.7	16.7	16.2	16.0
52.5°	1156.5	573.1	34.0	25.2	21.0	18.4	16.9	15.2	14.3	13.9	13.9
55°	1182.4	540.2	30.1	22.9	19.0	16.5	14.3	13.0	12.2	11.8	11.8
57.5°	1189.7	495.5	26.3	21.0	17.1	14.5	12.2	11.3	10.3	10.0	10.0
60°	1136.9	414.9	23.3	18.6	15.4	12.6	10.7	9.6	8.6	8.3	8.1
62.5°	997.7	321.1	20.5	16.5	13.5	10.9	9.2	7.9	7.1	7.1	7.1
65°	761.0	215.3	18.0	14.3	11.8	9.2	7.9	6.4	6.0	6.0	6.2
67.5°	455.6	117.1	15.4	12.2	10.0	7.7	6.6	5.6	5.3	5.6	5.6
69°	267.0	68.8	13.9	10.9	8.8	6.8	5.8	4.9	5.3	5.6	5.6
70°	164.8	46.4	12.8	9.8	7.9	6.2	5.3	4.7	5.1	5.3	5.3
72.5°	46.0	23.9	10.3	7.7	6.4	5.1	4.3	4.3	4.9	5.1	5.1
75°	29.9	17.7	7.9	5.8	4.9	4.1	3.6	4.1	4.7	4.9	4.9
77.5°	24.8	14.5	6.4	4.7	4.1	3.8	3.4	3.6	4.3	4.5	4.5
80°	22.7	10.3	5.1	4.3	3.6	3.4	3.2	3.0	3.8	4.1	4.1
82.5°	21.6	8.1	4.5	3.8	3.4	3.0	2.8	3.0	3.4	3.6	3.8
85°	13.5	5.3	4.1	3.6	3.0	2.8	2.8	2.8	3.2	3.4	3.4
87.5°	4.9	4.3	3.6	3.0	2.6	2.6	2.6	2.6	2.8	3.2	3.2
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)