

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: P191199

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191199
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: GLEON-AF-01-LED-E1-SL4-800-HSS
Description: GALLEON AREA AND ROADWAY 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: 4180.8 lumens
Efficiency: N/A
Efficacy: 95.0 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 - G2

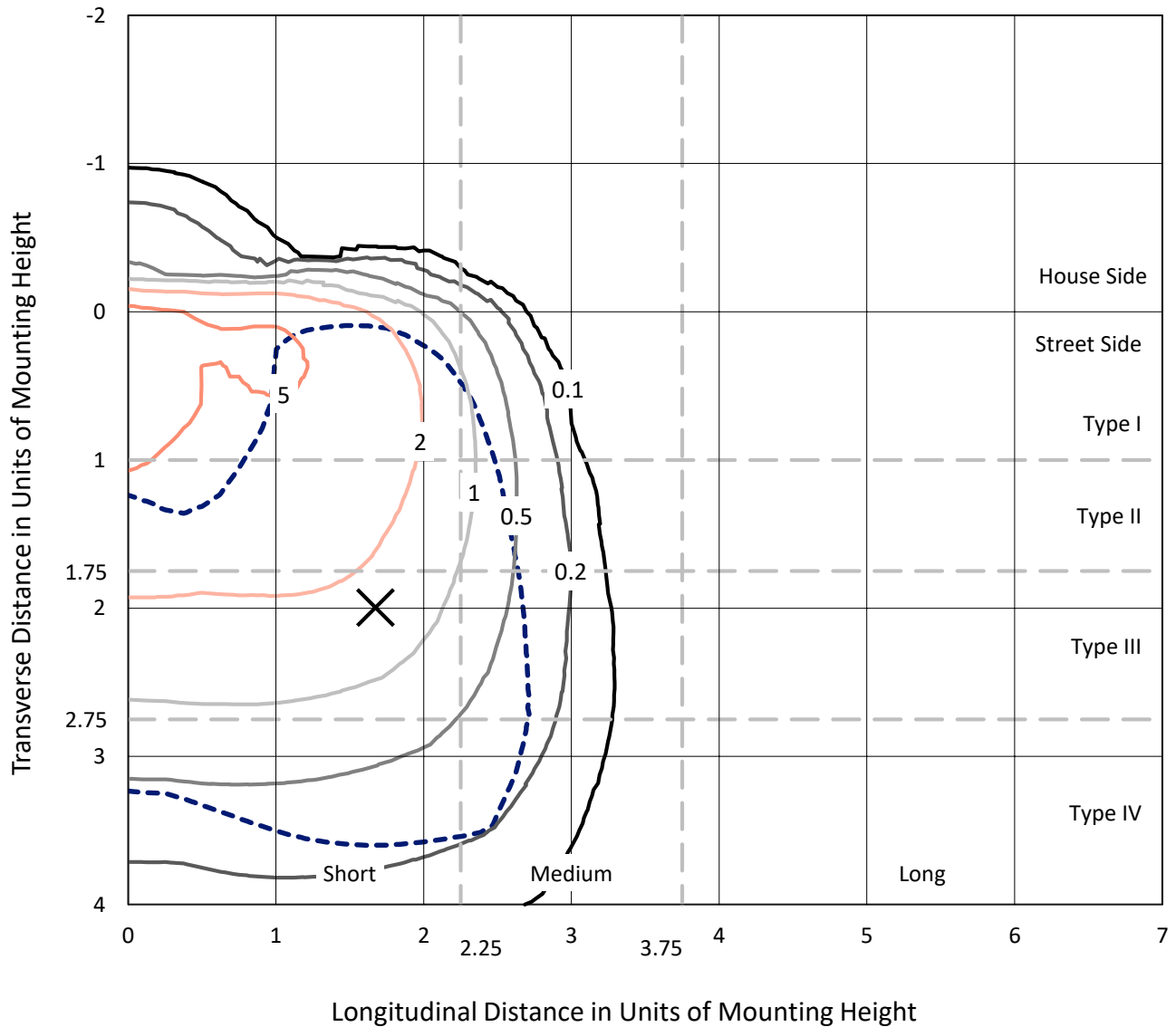
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

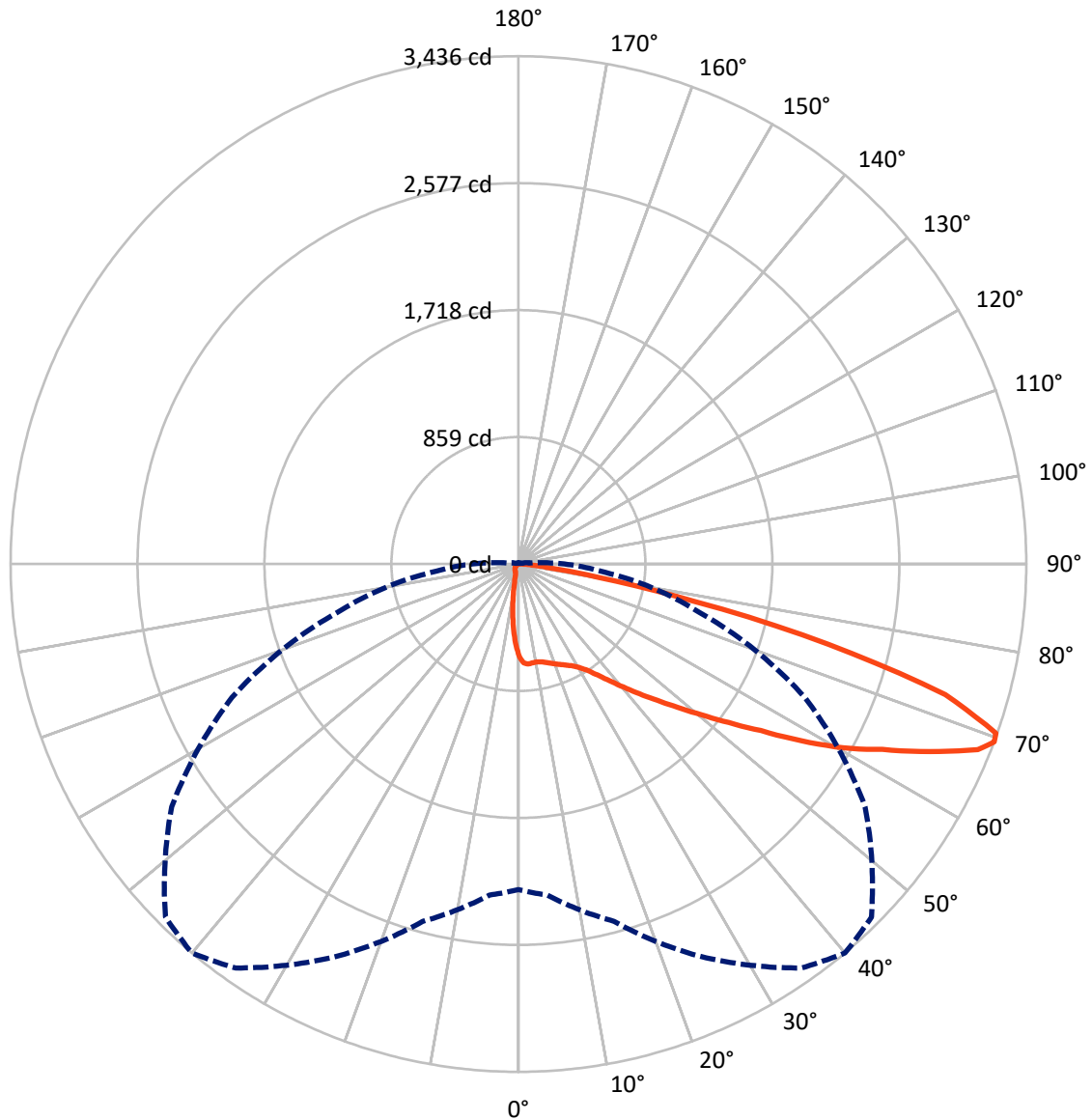
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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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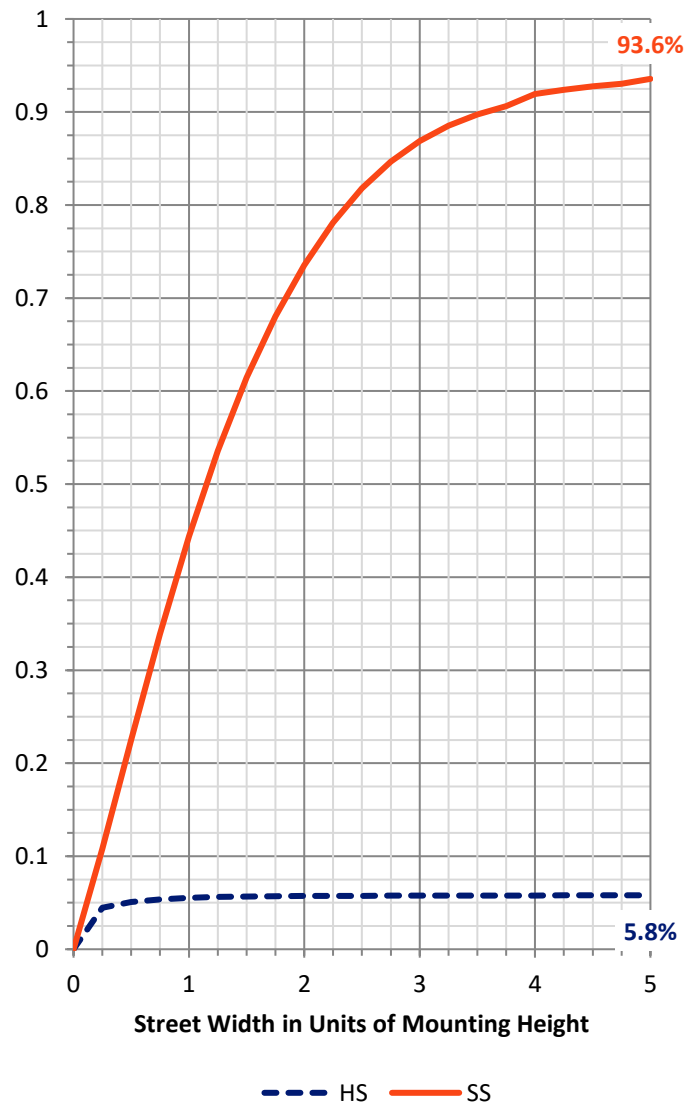
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.6	0.0	244.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3936.2	0.0	3936.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	4180.8	0.0	4180.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	1.2
10°-20°	124.5	3.0
20°-30°	209.8	5.0
30°-40°	343.4	8.2
40°-50°	594.6	14.2
50°-60°	936.6	22.4
60°-70°	1223.1	29.3
70°-80°	630.0	15.1
80°-90°	68.1	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°	4180.8	100.0
0°-180°	4180.8	100.0



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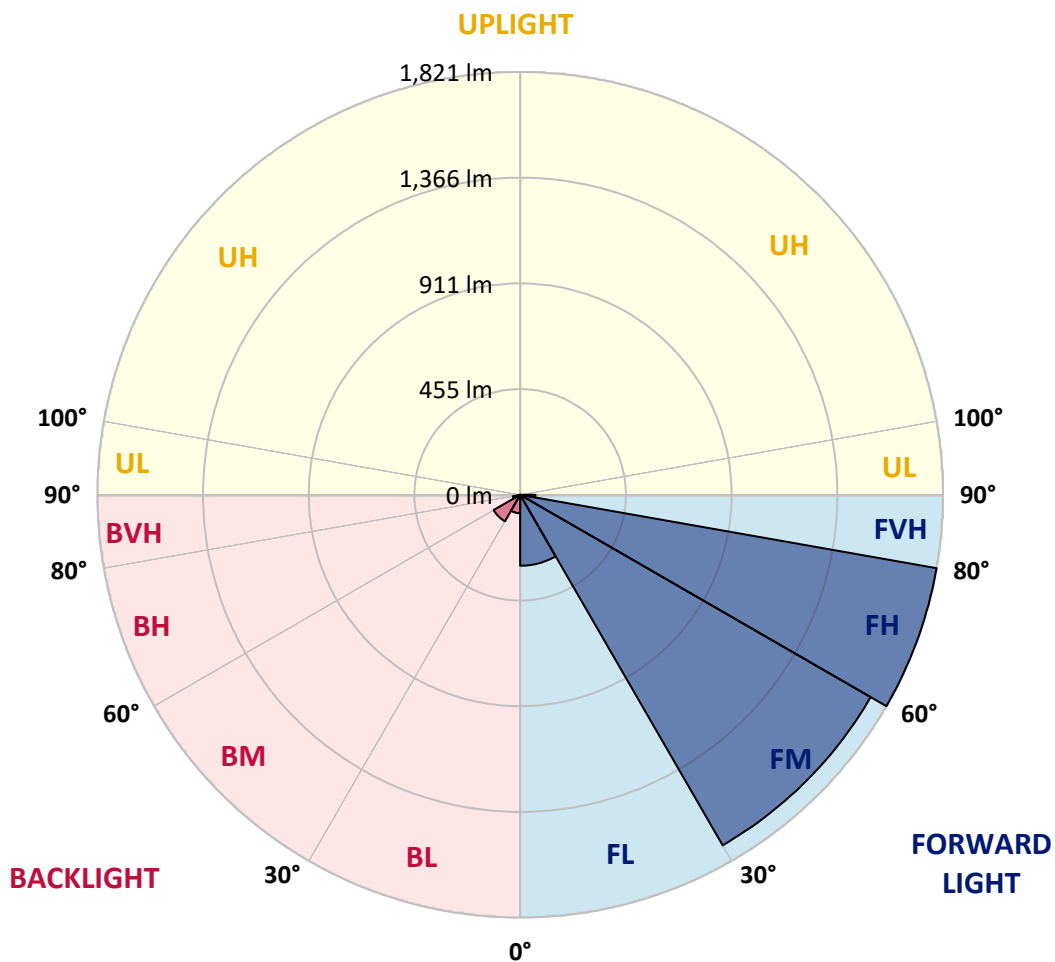
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.7	7.3			
FM	(30°-60°)	1743.1	41.7			
FH	(60°-80°)	1821.3	43.6			G2/5000
FVH	(80°-90°)	66.0	1.6			G1/100
BL	(0°-30°)	79.2	1.9	B0/110		
BM	(30°-60°)	131.5	3.1	B0/220		
BH	(60°-80°)	31.8	0.8	B0/110		G0/110
BVH	(80°-90°)	2.1	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°	40°	45°	55°	65°	75°	85°
0°	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6
2.5°	685.9	682.1	679.9	676.9	673.2	669.9	668.7	659.5	650.8	638.8	625.1
5°	698.6	697.3	693.4	689.4	684.9	679.9	677.1	666.1	653.8	636.4	612.4
7.5°	699.8	698.3	693.4	687.8	681.6	675.7	671.0	660.0	648.6	630.9	601.7
10°	697.8	696.0	692.3	686.4	678.6	672.9	668.2	657.8	648.0	632.1	599.8
12.5°	695.6	693.8	692.0	689.1	682.4	678.4	674.4	664.4	655.7	642.3	606.9
15°	697.8	696.8	698.8	697.6	693.8	690.3	686.4	677.4	669.4	658.3	620.1
17.5°	707.3	707.3	713.5	714.2	710.7	705.7	700.0	691.1	684.4	674.9	635.9
20°	729.4	728.6	736.6	738.2	729.7	721.9	713.5	702.6	697.3	691.3	651.2
22.5°	767.5	764.0	768.7	767.2	750.5	738.6	728.1	714.7	712.0	709.2	668.4
25°	817.0	815.0	818.3	803.5	774.2	758.0	745.6	730.4	730.4	733.1	687.8
27.5°	888.9	881.5	870.5	844.7	800.6	779.9	766.5	750.3	754.5	764.8	713.5
30°	962.6	954.4	929.2	889.5	832.7	811.0	795.3	778.5	788.4	807.0	747.8
32.5°	1035.2	1026.0	990.4	940.2	878.7	857.0	841.9	823.3	839.9	871.2	798.1
35°	1105.7	1097.4	1056.4	997.2	939.9	922.0	908.1	891.9	913.3	957.1	869.0
37.5°	1184.8	1175.9	1125.9	1061.6	1014.4	1001.4	991.2	975.0	1012.3	1076.6	967.8
40°	1282.1	1266.9	1199.5	1135.6	1100.5	1094.3	1087.3	1085.0	1143.0	1231.8	1099.5
42.5°	1393.6	1368.7	1276.6	1213.4	1195.0	1199.5	1197.8	1207.7	1306.5	1425.0	1259.8
45°	1505.1	1472.9	1362.5	1296.6	1299.0	1314.7	1324.4	1364.2	1511.3	1646.4	1432.1
47.5°	1599.7	1568.1	1444.9	1386.4	1416.3	1447.1	1473.5	1548.8	1721.8	1864.4	1566.3
50°	1680.5	1650.6	1532.2	1485.2	1552.3	1602.1	1644.9	1756.7	1948.3	2030.5	1660.4
52.5°	1746.7	1726.8	1622.8	1598.5	1707.9	1780.9	1843.6	1977.5	2148.9	2165.3	1733.5
55°	1811.2	1797.0	1720.1	1733.1	1890.6	1989.8	2069.2	2211.6	2321.6	2277.8	1803.8
57.5°	1885.3	1872.4	1831.1	1903.7	2130.7	2255.6	2342.3	2419.2	2473.6	2392.8	1870.0
60°	1961.0	1953.5	1954.6	2093.4	2406.5	2526.4	2574.2	2594.1	2622.9	2501.0	1873.6
62.5°	2033.2	2047.3	2095.6	2304.4	2670.5	2762.6	2786.7	2806.4	2772.5	2518.2	1731.0
65°	2155.4	2178.5	2293.8	2586.8	2960.9	3059.4	3084.3	3016.9	2796.1	2296.2	1408.0
67.5°	2215.1	2257.3	2463.0	2850.1	3242.7	3352.1	3342.9	3030.6	2509.2	1751.0	903.6
69°	2202.6	2247.7	2502.0	2930.8	3336.1	3435.5	3377.0	2863.1	2137.7	1268.5	554.7
70°	2153.4	2198.9	2481.9	2927.8	3348.1	3426.8	3313.7	2656.3	1807.5	927.5	346.9
72.5°	1798.2	1837.5	2203.4	2646.4	3084.3	3020.4	2772.3	1840.3	880.7	252.6	78.2
75°	1106.9	1128.8	1581.0	1993.6	2329.6	2165.3	1847.0	915.5	262.6	71.4	43.3
77.5°	584.8	594.7	865.5	1175.1	1476.7	1221.9	946.6	357.1	120.9	44.8	31.4
80°	345.7	353.1	466.2	537.3	639.0	533.8	378.5	219.2	86.6	28.1	27.8
82.5°	197.8	202.5	338.0	298.6	251.9	215.0	188.4	207.8	52.0	18.9	28.8
85°	72.6	73.7	190.2	227.2	149.9	89.1	93.6	172.2	13.9	12.0	22.6
87.5°	33.9	33.1	97.8	139.1	87.6	56.5	72.9	37.8	5.5	7.7	6.2
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°	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6	624.6
2.5°	617.1	607.9	591.3	574.1	556.7	543.3	530.1	519.7	516.2	509.6	510.1
5°	598.2	581.3	546.5	511.2	474.3	444.0	415.3	392.2	381.0	369.6	369.6
7.5°	581.9	557.2	502.7	445.2	385.8	335.7	290.6	256.9	238.1	223.2	223.0
10°	575.6	542.3	466.2	383.7	300.8	232.7	179.2	144.8	127.2	115.7	115.2
12.5°	578.4	537.0	438.0	327.0	223.0	149.6	103.7	81.6	74.2	70.7	70.7
15°	586.4	535.5	409.9	271.5	157.5	93.6	68.9	62.9	62.5	62.5	62.5
17.5°	596.0	536.0	381.0	217.5	107.3	66.9	59.4	58.7	59.2	59.2	59.2
20°	606.0	536.3	349.8	167.5	75.7	58.2	56.0	55.8	56.3	56.3	56.5
22.5°	618.2	537.6	318.8	125.2	62.5	55.0	53.3	53.3	53.5	53.5	53.3
25°	632.1	540.0	286.4	92.8	57.0	52.8	51.2	51.0	51.2	51.0	50.7
27.5°	649.5	543.5	250.3	72.6	54.5	50.5	49.3	49.3	49.0	48.8	48.5
30°	671.5	547.5	209.8	61.7	52.0	48.5	47.3	47.1	46.7	46.2	46.2
32.5°	704.8	556.2	169.7	56.0	49.3	45.8	44.8	44.8	44.3	43.8	43.6
35°	756.1	573.4	133.9	52.5	46.2	42.8	41.5	41.5	41.0	40.8	40.6
37.5°	827.0	599.4	104.0	49.3	43.3	39.6	38.4	38.1	37.5	37.0	36.8
40°	921.3	631.9	81.8	46.2	40.3	36.3	35.3	34.9	33.9	33.1	33.1
42.5°	1039.7	668.7	66.5	43.1	36.8	33.3	32.6	31.8	30.1	29.4	29.2
45°	1163.7	701.7	56.3	39.3	33.3	30.4	29.9	28.6	26.4	25.7	25.7
47.5°	1253.0	709.5	49.5	35.8	30.1	27.1	26.9	24.7	22.6	22.2	21.9
50°	1308.8	694.3	44.1	32.3	27.1	24.1	23.4	20.7	19.4	18.9	18.6
52.5°	1346.3	667.2	39.6	29.4	24.3	21.4	19.6	17.7	16.7	16.2	16.2
55°	1376.5	628.9	35.1	26.6	22.2	19.1	16.7	15.1	14.2	13.7	13.7
57.5°	1384.9	576.8	30.6	24.3	19.9	16.9	14.2	13.2	12.0	11.7	11.7
60°	1323.4	483.0	27.1	21.7	17.9	14.7	12.5	11.2	9.9	9.7	9.4
62.5°	1161.5	373.8	23.9	19.1	15.7	12.7	10.7	9.2	8.2	8.2	8.2
65°	886.0	250.6	20.9	16.7	13.7	10.7	9.2	7.5	7.0	7.0	7.3
67.5°	530.3	136.4	17.9	14.2	11.7	9.0	7.7	6.4	6.2	6.4	6.4
69°	310.8	80.1	16.2	12.7	10.2	8.0	6.8	5.7	6.2	6.4	6.4
70°	191.9	54.0	14.9	11.5	9.2	7.3	6.2	5.5	5.9	6.2	6.2
72.5°	53.5	27.8	12.0	9.0	7.5	5.9	5.0	5.0	5.7	5.9	5.9
75°	34.9	20.7	9.2	6.8	5.7	4.7	4.2	4.7	5.5	5.7	5.7
77.5°	28.8	16.9	7.5	5.5	4.7	4.5	4.0	4.2	5.0	5.2	5.2
80°	26.4	12.0	5.9	5.0	4.2	4.0	3.7	3.5	4.5	4.7	4.7
82.5°	25.2	9.4	5.2	4.5	4.0	3.5	3.3	3.5	4.0	4.2	4.5
85°	15.7	6.2	4.7	4.2	3.5	3.3	3.3	3.3	3.7	4.0	4.0
87.5°	5.7	5.0	4.2	3.5	3.0	3.0	3.0	3.0	3.3	3.7	3.7
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)