

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: P193649

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2863 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 34  
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

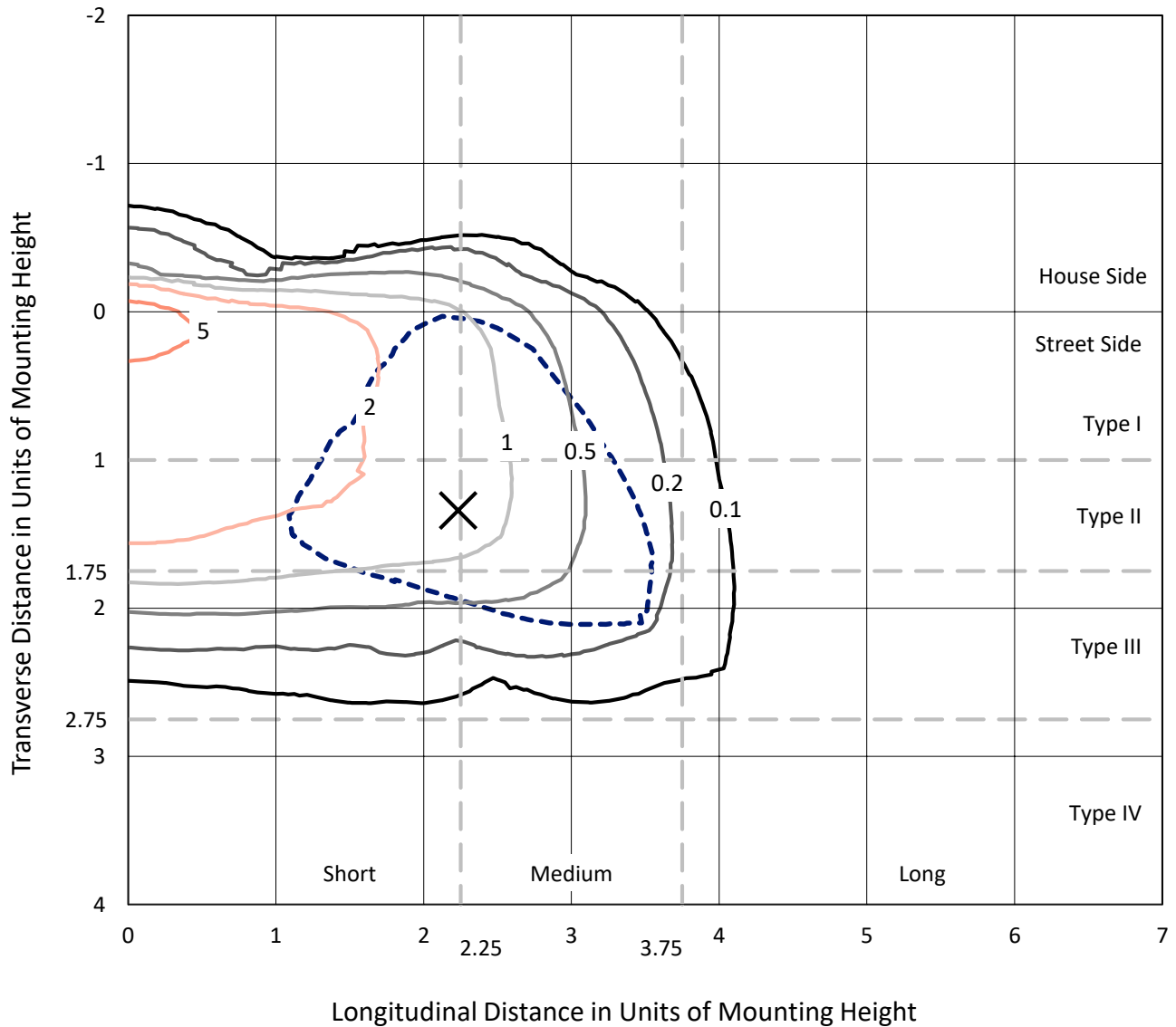


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

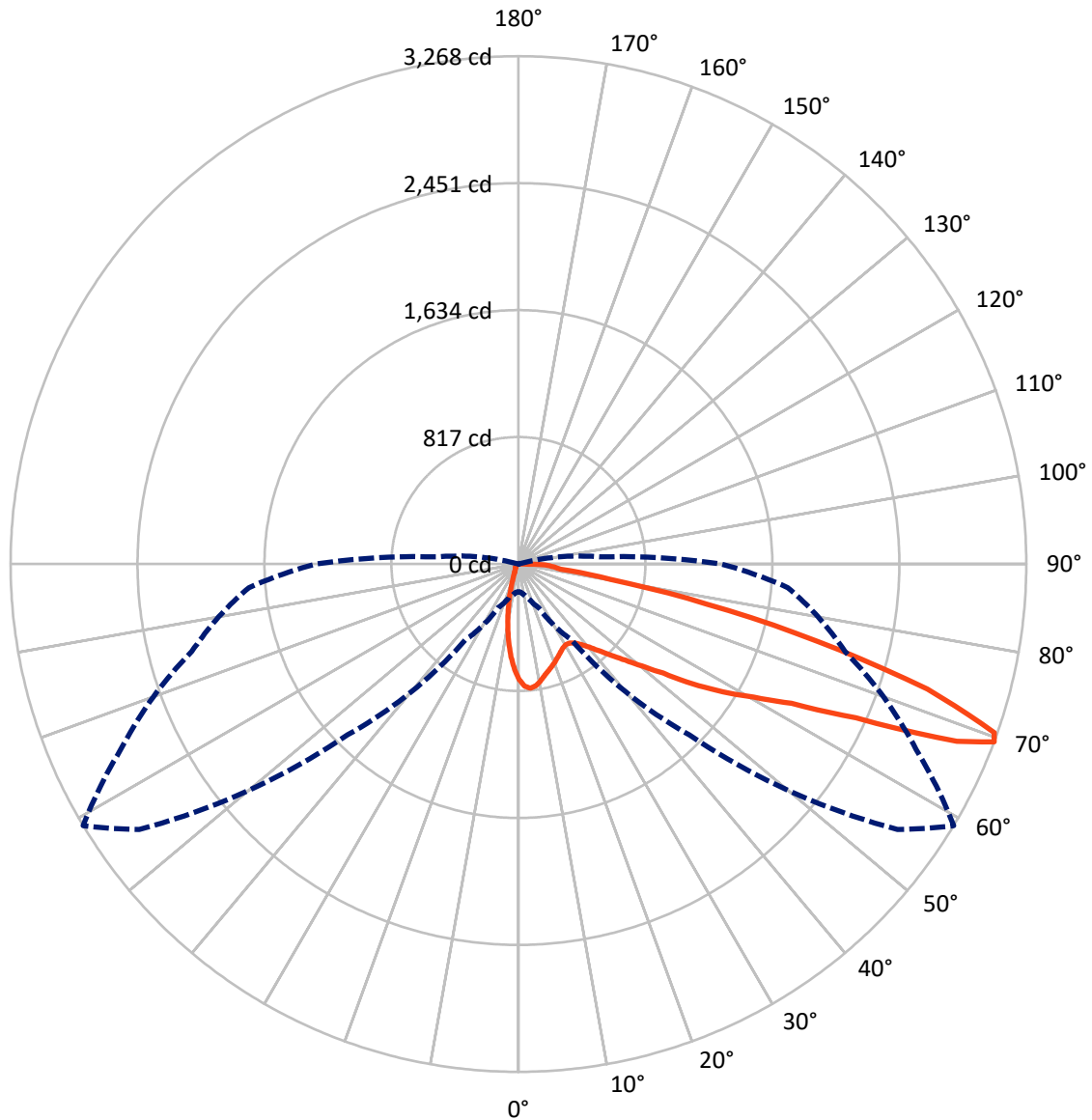


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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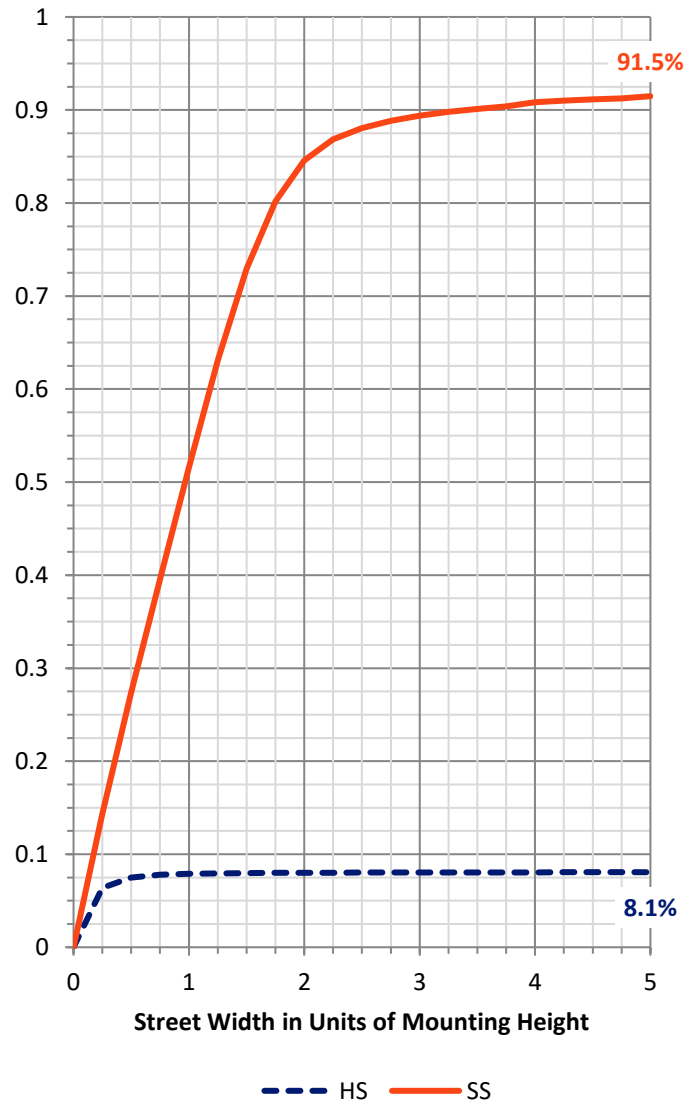
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	233.2	0.0	233.2
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	2629.8	0.0	2629.8
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	2863.0	0.0	2863.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	2.1
10°-20°	125.0	4.4
20°-30°	168.2	5.9
30°-40°	244.2	8.5
40°-50°	406.6	14.2
50°-60°	634.3	22.2
60°-70°	784.9	27.4
70°-80°	397.8	13.9
80°-90°	41.6	1.5
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°	2863.0	100.0
0°-180°	2863.0	100.0



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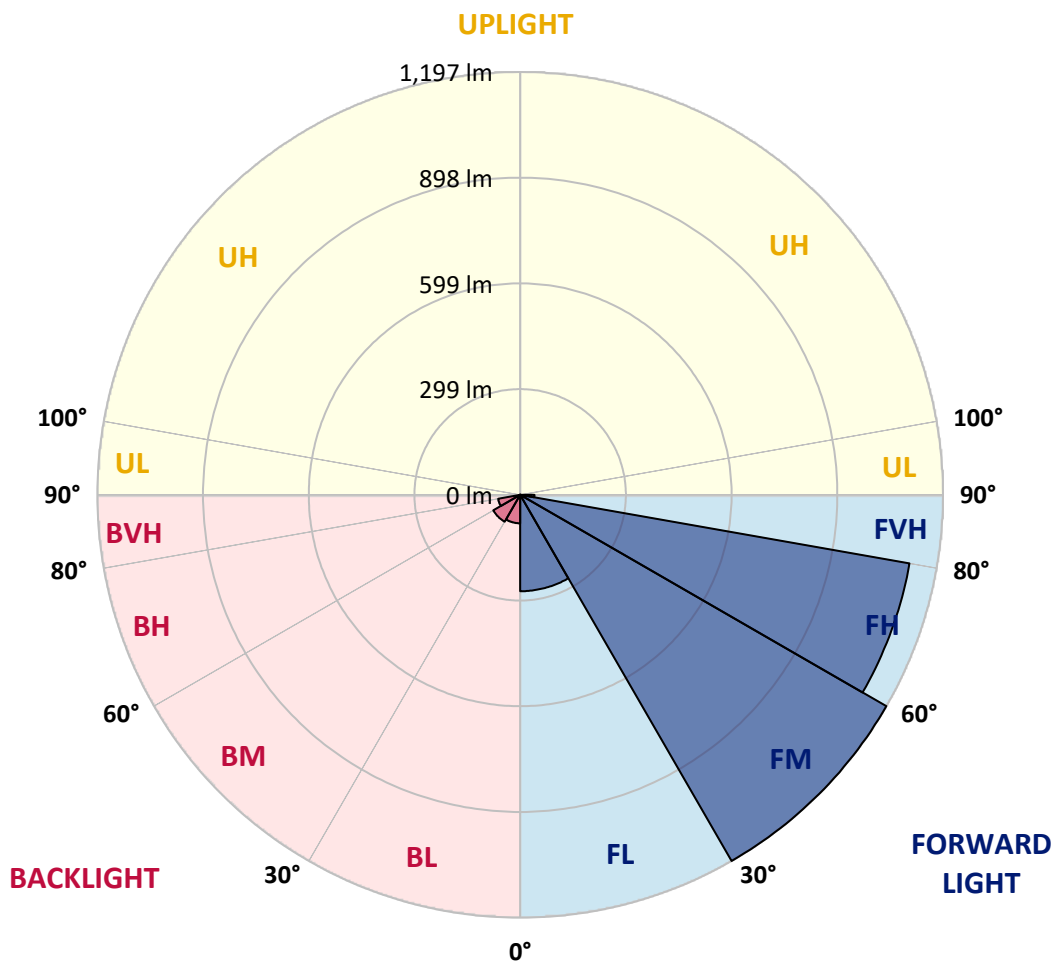
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	273.0	9.5			
FM	(30°-60°)	1197.2	41.8			
FH	(60°-80°)	1119.3	39.1			G1/1800
FVH	(80°-90°)	40.3	1.4			G1/100
BL	(0°-30°)	80.7	2.8	B0/110		
BM	(30°-60°)	87.9	3.1	B0/220		
BH	(60°-80°)	63.3	2.2	B0/110		G0/110
BVH	(80°-90°)	1.3	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	745.2	745.2	745.2	745.2	745.2	745.2	745.2	745.2	745.2	745.2	745.2
2.5°	816.8	816.4	812.9	811.3	808.3	802.2	792.6	787.6	779.5	765.4	746.5
5°	809.3	813.2	815.3	815.5	817.6	815.3	806.7	802.5	791.3	768.7	734.7
7.5°	758.8	760.3	766.2	771.4	781.5	791.0	794.1	792.3	785.7	761.4	716.2
10°	704.7	706.2	713.3	720.1	733.7	748.4	764.0	767.2	770.0	751.0	698.4
12.5°	658.1	659.6	666.8	675.7	691.6	709.7	733.9	739.2	751.4	741.2	684.2
15°	618.0	618.6	625.7	636.7	655.7	679.0	706.3	714.9	733.5	734.2	671.7
17.5°	583.8	585.4	589.8	600.3	621.0	649.8	681.7	694.0	715.9	728.4	659.6
20°	562.9	564.5	564.4	570.2	588.8	619.6	657.1	671.9	698.4	722.4	648.7
22.5°	558.9	558.9	554.6	553.8	564.8	590.6	631.5	649.5	682.7	719.8	641.1
25°	573.3	572.6	562.1	553.5	554.0	569.4	606.8	628.1	669.4	721.6	637.1
27.5°	603.7	602.9	589.6	573.3	560.2	560.0	588.0	611.0	658.9	730.0	638.7
30°	645.8	645.5	631.1	610.5	586.7	564.8	581.5	602.4	652.1	745.2	642.4
32.5°	691.8	691.3	680.4	658.7	628.6	586.7	588.3	605.8	654.1	765.4	651.5
35°	740.5	739.7	735.0	716.1	682.9	627.0	610.7	624.3	666.4	795.7	669.3
37.5°	793.3	794.1	797.5	779.4	744.6	683.5	648.1	657.3	691.1	836.8	698.2
40°	871.2	871.0	872.1	848.3	814.8	752.6	700.4	703.3	732.6	891.4	742.3
42.5°	1012.5	1002.6	972.7	924.1	890.4	831.7	766.2	763.2	783.2	958.9	804.0
45°	1202.4	1181.3	1103.6	1010.5	967.5	920.7	847.4	837.5	850.3	1040.0	880.1
47.5°	1365.7	1343.9	1234.0	1100.6	1049.2	1005.2	942.4	924.6	928.8	1130.8	976.5
50°	1421.3	1410.6	1314.6	1178.9	1128.4	1111.6	1052.6	1030.9	1025.0	1235.9	1088.4
52.5°	1402.0	1401.2	1337.2	1229.7	1200.9	1221.7	1191.4	1166.3	1144.3	1346.6	1202.2
55°	1371.1	1375.1	1346.5	1274.3	1273.3	1322.2	1381.1	1360.2	1296.4	1466.9	1300.3
57.5°	1285.8	1303.1	1341.3	1358.5	1398.3	1448.3	1539.1	1551.4	1476.0	1559.0	1381.8
60°	1043.2	1081.3	1206.3	1370.6	1559.4	1684.0	1729.8	1740.4	1623.3	1635.6	1491.7
62.5°	740.5	779.4	937.9	1215.8	1561.8	1993.7	2014.0	1972.7	1785.5	1749.1	1681.3
65°	393.1	423.0	552.5	877.6	1354.1	2065.6	2510.8	2387.8	2071.8	1972.4	1926.2
67.5°	201.1	210.1	261.6	429.5	930.9	1834.7	2956.2	3042.8	2565.1	2193.8	1914.4
69°	177.9	183.3	217.4	310.5	596.1	1554.0	2977.9	3267.7	2823.3	2175.4	1739.7
70°	172.3	177.0	208.0	281.0	465.9	1303.2	2894.8	3247.9	2889.3	2105.1	1609.2
72.5°	146.2	150.2	185.2	248.3	378.7	646.9	2351.5	2752.2	2592.7	1753.6	1164.8
75°	97.8	111.1	177.8	232.8	352.3	367.5	1550.3	1988.9	1847.5	1182.8	606.8
77.5°	23.5	25.3	50.2	185.2	322.2	323.5	797.3	1236.4	1008.4	421.6	143.4
80°	12.6	12.1	14.1	36.7	300.0	303.6	358.9	600.1	360.1	69.9	47.3
82.5°	8.9	8.4	9.1	15.4	94.4	276.5	259.7	271.7	149.3	26.9	21.2
85°	3.2	3.1	5.0	13.9	29.6	159.0	266.8	224.1	120.9	12.3	15.5
87.5°	1.1	1.0	1.9	7.6	9.1	67.7	164.6	169.3	47.6	7.4	7.3
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°	745.2	745.2	745.2	745.2	745.2	745.2	745.2	745.2	745.2	745.2	745.2
2.5°	738.6	728.5	710.1	691.1	673.6	652.6	642.1	631.7	627.3	625.7	618.1
5°	717.2	700.2	661.0	621.7	585.4	546.9	521.5	501.1	489.1	483.3	474.0
7.5°	689.8	662.0	602.6	541.9	485.4	429.7	388.4	356.7	334.8	324.3	314.7
10°	663.3	626.2	541.7	459.0	382.2	308.4	251.4	210.1	183.7	171.6	163.8
12.5°	639.5	591.4	482.9	378.2	281.9	195.4	137.4	104.6	88.2	82.6	79.8
15°	618.3	559.3	427.4	301.4	190.9	111.7	75.1	63.9	61.4	61.4	61.0
17.5°	598.2	527.9	373.8	229.4	119.8	68.3	57.1	55.7	55.7	56.3	56.3
20°	578.9	498.0	322.0	164.6	75.4	54.2	51.6	51.3	51.6	52.5	52.5
22.5°	562.4	470.8	273.6	113.0	56.0	48.9	47.6	47.1	47.3	47.8	48.1
25°	550.1	447.8	227.9	76.6	48.2	44.5	43.1	42.3	41.6	41.6	41.9
27.5°	542.3	428.4	183.7	55.7	43.4	40.5	38.2	36.9	35.5	34.6	35.0
30°	536.7	409.9	142.3	45.5	38.9	35.9	33.0	30.9	28.8	27.8	28.2
32.5°	534.6	395.0	106.4	40.1	34.8	31.6	28.0	25.3	23.0	22.2	22.3
35°	540.2	383.2	77.9	36.3	31.6	27.5	23.5	20.4	18.6	18.1	18.3
37.5°	555.1	376.9	58.3	33.0	28.7	24.1	19.6	16.7	15.5	15.5	15.7
40°	583.3	376.7	46.8	30.8	26.1	20.9	16.2	14.1	13.4	13.8	13.9
42.5°	624.4	385.3	40.8	28.7	23.8	17.8	13.4	12.0	11.8	12.1	12.3
45°	680.6	401.0	37.6	26.9	21.4	14.9	11.3	10.4	10.4	10.8	11.0
47.5°	749.4	424.0	34.8	25.1	18.9	12.5	9.7	9.1	9.2	9.7	9.9
50°	832.3	453.0	32.1	23.2	17.2	10.4	8.4	7.9	8.1	8.7	8.9
52.5°	926.7	492.0	29.8	21.4	14.9	8.6	7.1	6.8	7.1	7.8	7.9
55°	1007.6	527.0	27.0	19.9	12.0	7.1	5.8	5.8	6.2	7.0	7.1
57.5°	1085.5	563.6	24.6	17.2	9.4	5.7	4.9	5.0	5.5	6.3	6.5
60°	1199.8	625.6	21.7	14.4	7.1	4.5	4.0	4.2	4.9	5.7	5.8
62.5°	1393.9	719.9	18.8	12.0	5.5	3.6	3.2	3.6	4.4	5.3	5.5
65°	1569.1	758.3	15.4	10.0	4.2	2.8	2.8	3.2	4.2	5.2	5.3
67.5°	1471.5	638.3	12.0	7.9	3.2	2.1	2.3	3.1	4.0	5.2	5.3
69°	1301.3	521.9	10.2	6.3	2.8	1.9	2.1	3.1	4.0	5.0	5.2
70°	1168.7	440.7	9.1	5.3	2.4	1.9	2.1	2.9	4.0	5.0	5.2
72.5°	782.8	238.0	7.3	3.9	2.3	1.8	1.8	2.9	3.9	4.9	5.0
75°	336.4	65.7	5.8	2.8	1.9	1.6	1.6	2.8	3.7	4.7	5.0
77.5°	61.5	16.7	4.7	2.4	1.9	1.6	1.5	2.6	3.6	4.5	4.7
80°	24.4	8.3	3.7	2.1	1.8	1.5	1.3	2.4	3.4	4.4	4.5
82.5°	14.7	4.7	3.1	1.9	1.8	1.3	1.1	2.1	3.2	4.2	4.4
85°	12.0	3.2	2.4	1.9	1.6	1.3	1.0	1.9	2.9	4.0	4.2
87.5°	5.8	2.3	2.3	1.8	1.6	1.3	1.0	1.8	2.8	3.9	4.0
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)