

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: P382769

Luminaire Tested: **GLEON-SA1C-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5647 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

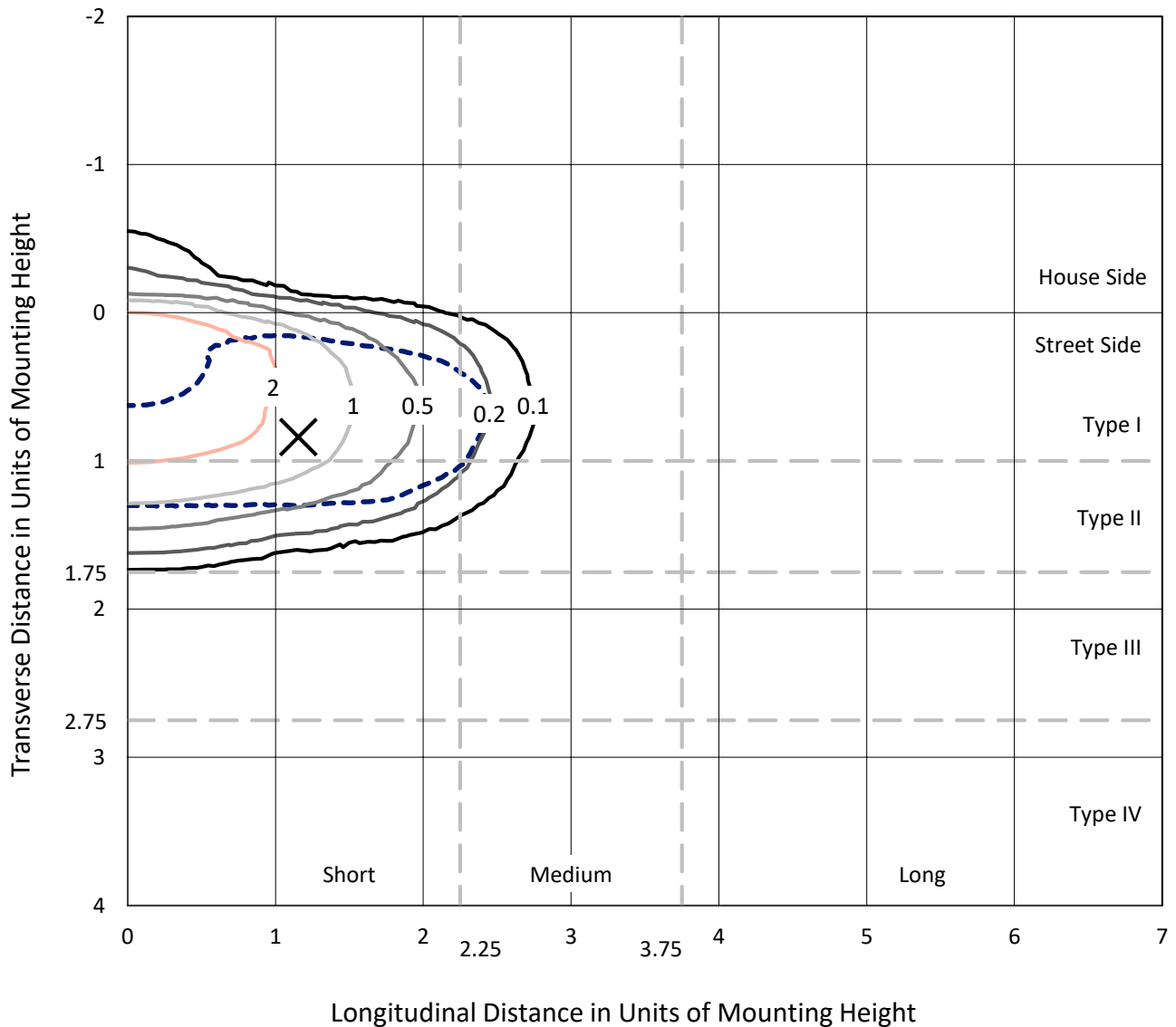
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

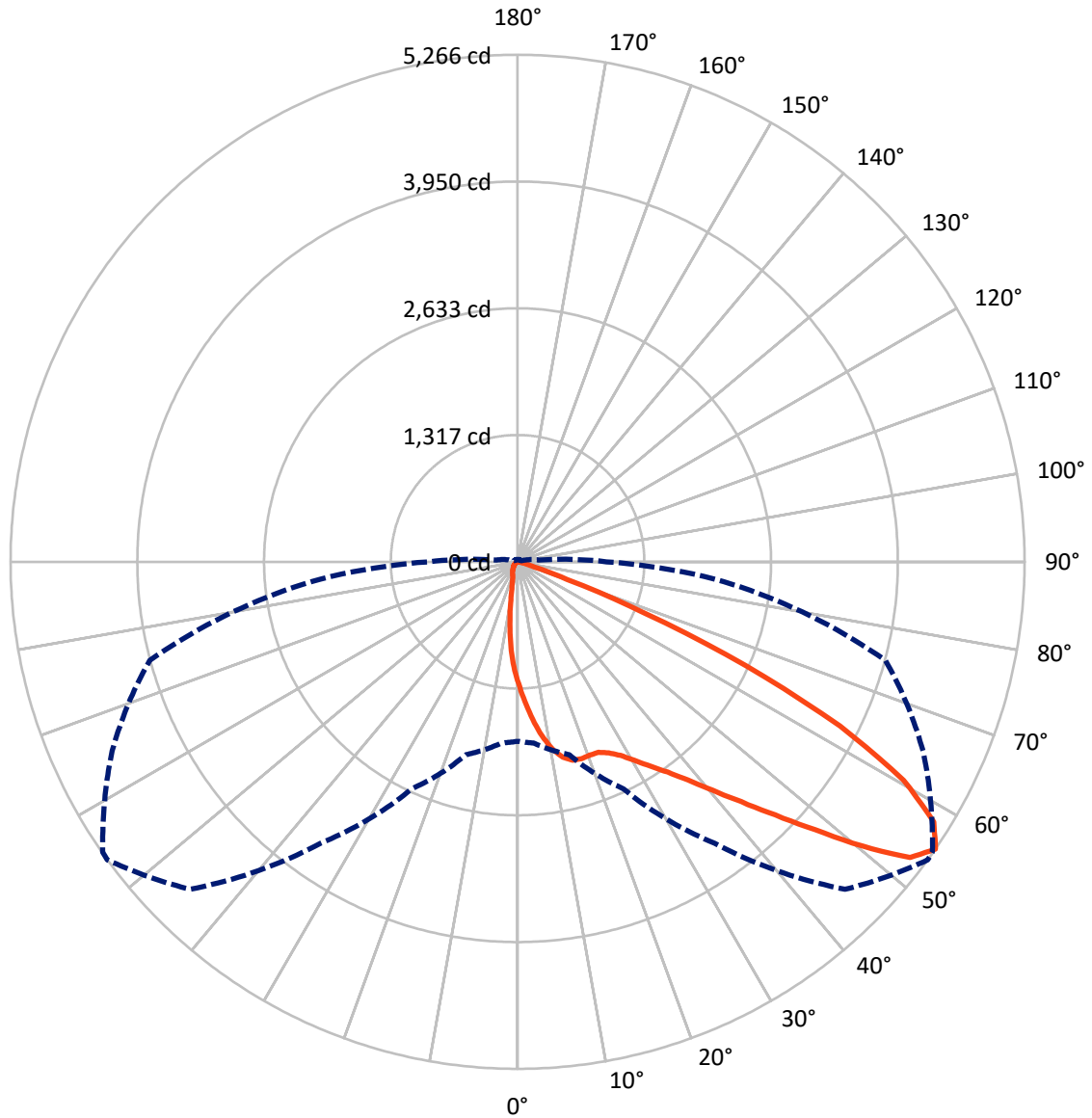
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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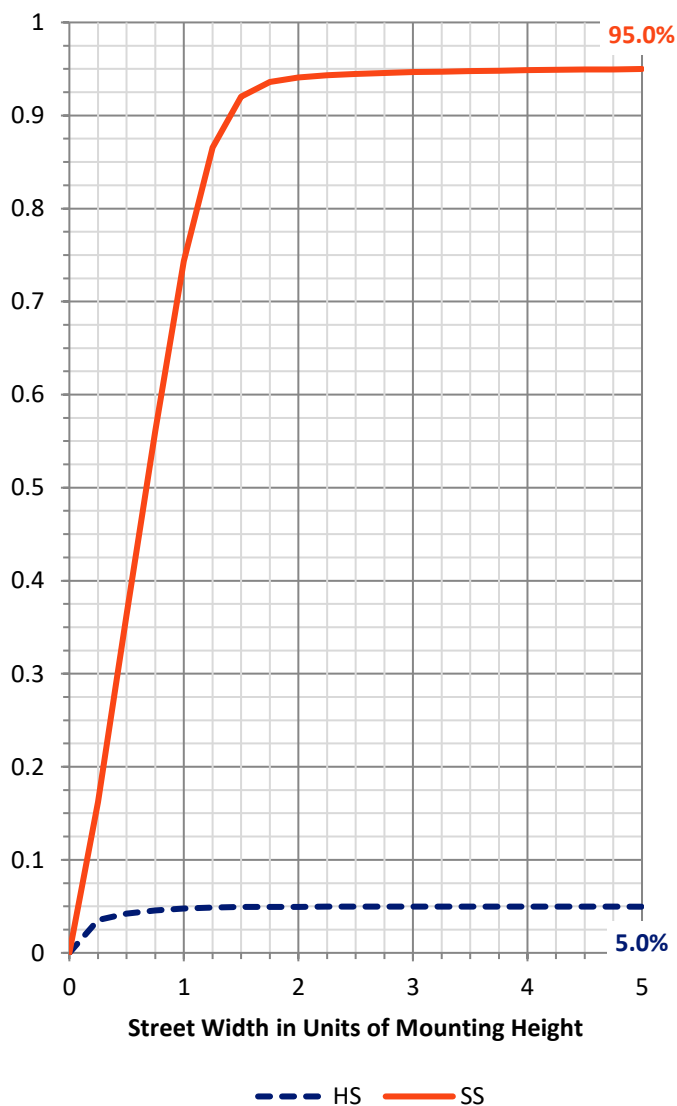
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	281.7	0.0	281.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5365.3	0.0	5365.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5647.0	0.0	5647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.5	2.1
10°-20°	319.4	5.7
20°-30°	545.3	9.7
30°-40°	875.2	15.5
40°-50°	1398.5	24.8
50°-60°	1498.6	26.5
60°-70°	769.4	13.6
70°-80°	116.6	2.1
80°-90°	7.6	0.1
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°	5647.0	100.0
0°-180°	5647.0	100.0

**Coefficient of Utilization**



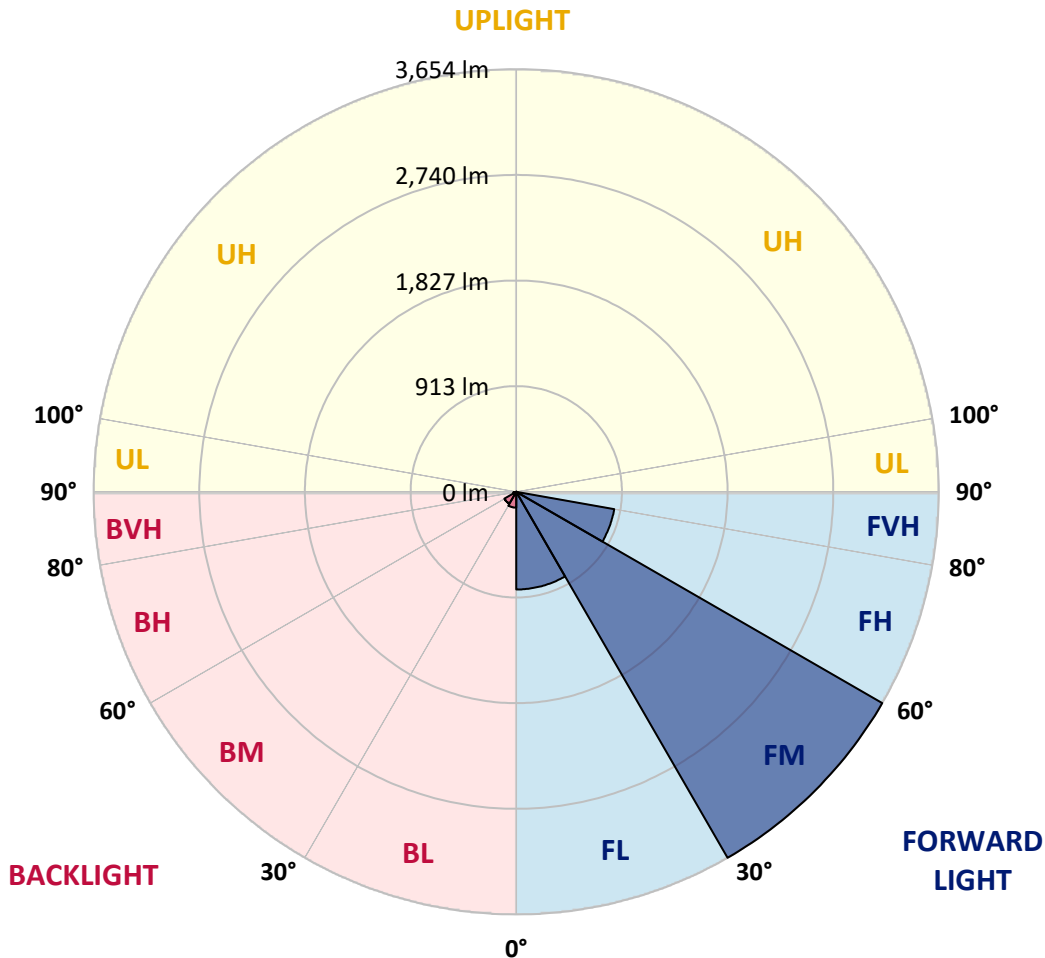
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.1	14.9			
FM (30°-60°)	3653.9	64.7			
FH (60°-80°)	860.0	15.2			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	137.1	2.4	B1/500		
BM (30°-60°)	118.4	2.1	B0/220		
BH (60°-80°)	26.0	0.5	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7
2.5°	1587.1	1563.4	1564.2	1553.4	1514.2	1483.5	1451.5	1444.0	1394.2	1342.0	1291.8
5°	1861.4	1844.2	1840.0	1819.3	1764.6	1706.9	1644.9	1630.5	1533.2	1426.4	1321.3
7.5°	2002.5	2002.6	1999.3	1991.6	1957.6	1901.5	1825.8	1810.7	1678.3	1518.0	1352.0
10°	1961.5	1970.7	1989.7	2014.8	2040.9	2033.8	1977.0	1963.4	1819.5	1615.1	1386.1
12.5°	1865.9	1867.1	1888.2	1929.5	2004.6	2081.6	2082.7	2078.0	1954.4	1716.6	1423.7
15°	1818.3	1822.9	1830.8	1857.3	1928.5	2051.9	2140.2	2146.8	2078.0	1824.4	1463.7
17.5°	1849.5	1856.1	1849.5	1852.7	1893.9	2004.9	2150.2	2167.1	2186.1	1931.0	1501.5
20°	1934.2	1940.2	1928.5	1915.6	1923.6	1991.2	2143.1	2165.8	2270.6	2025.6	1533.2
22.5°	2048.3	2050.7	2032.9	2011.7	2005.8	2037.6	2149.0	2172.4	2338.5	2111.2	1553.2
25°	2173.9	2176.1	2153.8	2129.5	2115.5	2128.5	2197.1	2214.6	2398.2	2192.9	1564.6
27.5°	2310.7	2312.7	2284.8	2254.8	2238.7	2239.3	2276.3	2295.1	2461.9	2286.0	1573.9
30°	2455.3	2454.3	2428.7	2387.0	2366.5	2366.0	2390.4	2409.4	2554.0	2405.5	1586.6
32.5°	2617.7	2615.8	2579.5	2527.8	2504.6	2508.0	2529.7	2540.6	2668.4	2532.9	1609.3
35°	2831.5	2825.9	2771.1	2707.0	2664.3	2663.1	2681.4	2690.1	2814.3	2687.0	1647.1
37.5°	3109.1	3104.0	3029.6	2936.4	2876.4	2854.0	2875.7	2887.0	3022.3	2884.7	1707.8
40°	3382.7	3377.6	3333.4	3248.1	3155.7	3101.8	3118.8	3130.8	3282.0	3124.7	1784.4
42.5°	3571.5	3575.8	3591.2	3598.3	3511.7	3398.6	3406.4	3418.8	3554.9	3381.2	1871.9
45°	3621.2	3630.7	3717.5	3888.0	3920.4	3832.2	3750.5	3757.3	3832.2	3637.8	1959.5
47.5°	3471.7	3489.3	3656.8	3973.9	4248.4	4310.9	4156.3	4147.2	4098.3	3845.3	2021.6
50°	3132.0	3148.2	3365.1	3834.2	4348.0	4767.9	4642.6	4616.0	4331.6	3969.5	2043.6
52.5°	2640.4	2659.8	2836.2	3394.2	4160.4	4971.8	5103.0	5080.8	4502.8	3979.2	2047.3
55°	1864.6	1888.2	2074.8	2601.3	3566.2	4809.6	5266.1	5259.5	4645.0	3953.4	2055.1
57.5°	1047.9	1064.9	1266.2	1667.6	2611.9	4189.2	5095.7	5139.3	4730.9	3908.5	2066.8
60°	465.3	470.0	574.1	830.1	1529.0	3201.5	4607.7	4681.3	4657.2	3848.5	2086.6
62.5°	258.0	254.1	254.1	345.0	664.6	1982.0	3757.3	3879.0	4342.9	3777.5	2087.5
65°	202.1	198.5	188.0	189.5	253.1	879.7	2601.8	2818.1	3745.8	3569.5	2017.3
67.5°	171.4	168.2	157.8	153.6	157.3	290.2	1429.6	1654.1	2842.3	3028.8	1747.3
70°	144.9	142.6	137.3	132.2	122.9	143.4	547.0	699.7	1751.5	2014.8	1192.8
72.5°	116.5	115.6	117.6	113.2	101.9	95.6	187.1	226.6	786.7	899.1	491.4
75°	100.5	100.0	101.0	96.6	83.9	66.6	95.1	103.9	221.9	219.9	99.5
77.5°	65.4	66.0	83.7	81.7	72.2	44.3	49.3	53.2	67.4	50.5	30.3
80°	41.7	41.2	42.5	67.8	64.8	33.9	24.6	25.8	32.4	24.9	14.6
82.5°	25.3	24.9	27.8	31.7	32.7	23.7	15.1	15.4	20.2	16.1	7.8
85°	2.2	2.9	16.9	15.6	11.2	7.4	7.4	7.8	10.7	9.5	4.4
87.5°	0.0	0.0	2.9	4.4	2.4	2.7	2.7	2.9	4.2	4.2	2.2
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°	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7
2.5°	1265.7	1240.4	1189.1	1139.8	1098.1	1057.9	1012.0	966.7	945.5	937.0	928.2
5°	1267.8	1215.7	1110.1	1003.7	893.5	794.3	709.7	622.8	579.4	560.4	551.7
7.5°	1270.8	1191.3	1020.6	842.1	664.6	530.0	412.4	336.8	304.2	299.0	286.3
10°	1271.3	1161.8	916.7	663.5	445.6	319.4	245.8	206.8	192.5	189.9	185.8
12.5°	1272.3	1126.9	801.3	491.4	297.1	213.6	177.7	164.9	161.0	160.7	160.7
15°	1275.2	1090.4	681.6	354.1	213.4	169.3	156.0	150.9	149.5	150.3	150.0
17.5°	1275.2	1047.2	564.1	263.9	172.4	152.2	144.9	141.4	140.9	141.7	142.0
20°	1266.0	994.7	456.3	205.3	152.9	141.2	134.6	131.4	130.2	130.7	131.0
22.5°	1243.7	930.3	368.5	170.0	140.0	131.2	124.2	119.2	117.3	117.6	117.6
25°	1209.1	854.0	288.2	147.1	129.5	120.4	112.2	106.6	105.4	105.1	105.6
27.5°	1164.7	769.6	229.4	129.5	117.1	108.5	100.2	95.6	94.6	94.8	95.1
30°	1121.1	682.1	180.9	114.6	103.1	95.1	88.8	86.5	86.5	87.3	87.6
32.5°	1081.1	598.0	143.2	101.7	90.7	83.4	79.7	79.5	80.8	81.2	81.4
35°	1046.7	520.2	118.5	91.7	81.0	74.6	73.4	74.3	75.8	76.9	77.0
37.5°	1022.3	450.7	103.7	83.4	73.4	68.3	68.0	70.0	71.9	74.2	74.6
40°	1012.0	391.9	93.4	76.1	67.4	63.4	62.7	65.4	69.0	72.2	72.7
42.5°	1003.6	343.8	84.6	69.0	62.4	56.8	56.5	60.0	64.4	67.5	68.3
45°	996.2	305.4	76.6	61.5	56.1	48.8	49.5	53.9	57.3	60.7	61.5
47.5°	981.1	273.6	67.8	53.4	46.3	41.7	43.1	47.0	49.7	54.9	55.6
50°	954.0	247.8	58.8	43.7	37.8	36.1	38.3	41.0	44.3	48.8	49.3
52.5°	935.7	228.2	51.0	36.6	31.2	31.7	33.9	34.8	36.8	38.6	38.0
55°	925.2	217.5	44.6	31.7	26.5	28.0	28.5	27.3	26.4	24.6	23.9
57.5°	924.0	207.7	39.8	27.6	23.4	24.1	22.5	18.3	14.9	12.9	12.5
60°	922.0	195.8	35.9	23.2	20.8	19.7	16.1	10.0	7.1	6.6	6.6
62.5°	900.9	177.3	32.9	19.5	17.5	14.9	9.2	4.7	3.9	4.2	4.2
65°	833.3	151.5	30.0	15.8	13.9	10.7	4.7	2.7	1.5	1.7	1.7
67.5°	708.4	120.7	26.8	12.2	10.5	6.8	2.7	1.2	0.0	0.0	0.0
70°	474.3	74.9	22.6	8.6	6.8	4.2	2.0	0.3	0.0	0.0	0.0
72.5°	181.9	40.5	18.3	5.1	4.4	2.9	1.2	0.0	0.0	0.0	0.0
75°	41.0	26.5	12.7	3.6	3.2	2.0	0.5	0.0	0.0	0.0	0.0
77.5°	15.6	19.3	7.4	2.4	2.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	7.5	11.5	3.4	1.5	1.2	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.9	4.4	1.5	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	2.2	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)