

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: P383120

Luminaire Tested: **GLEON-SA4C-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21453.5 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 225  
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

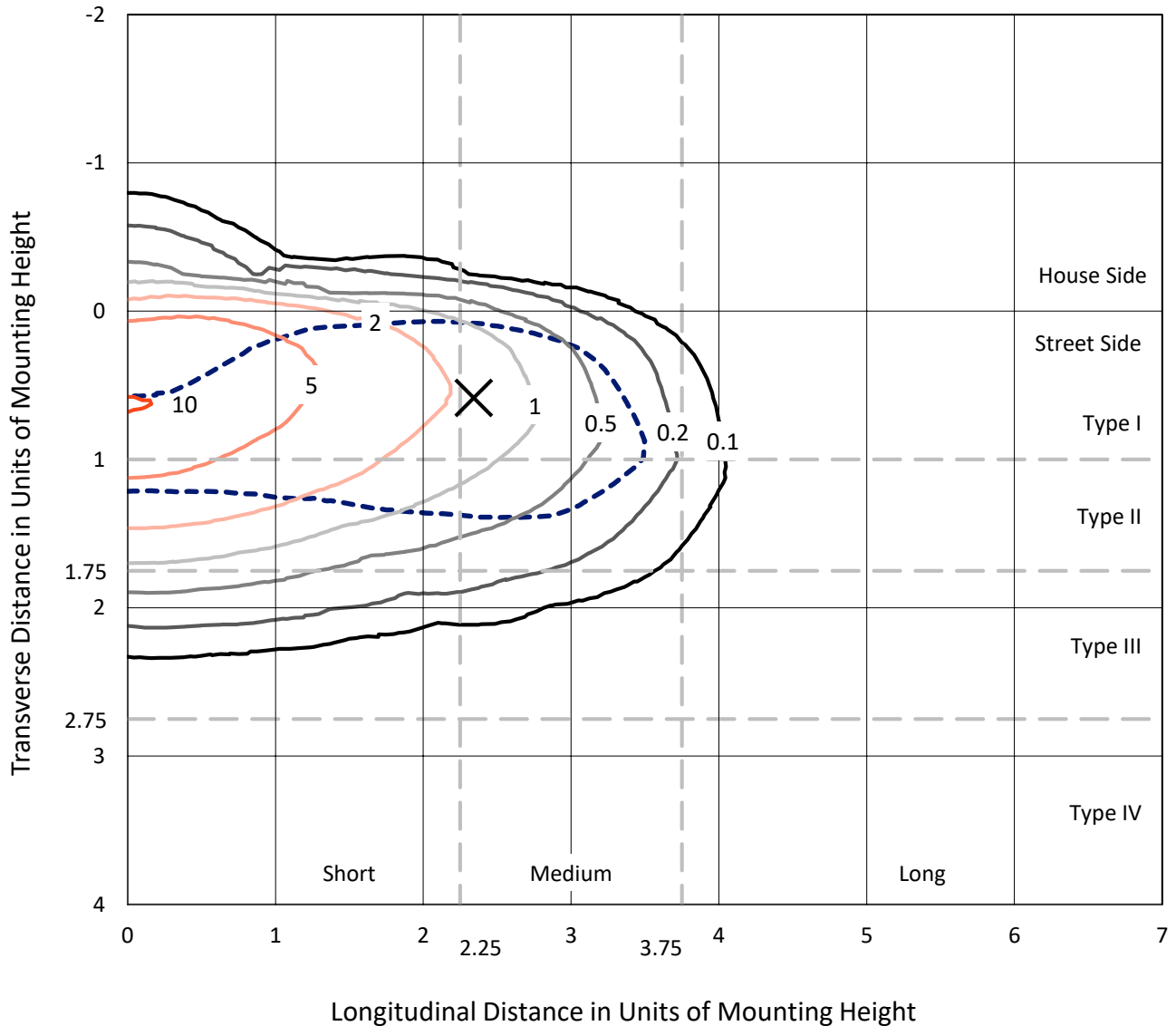




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### Iso-Footcandle Lines of Horizontal Illumination

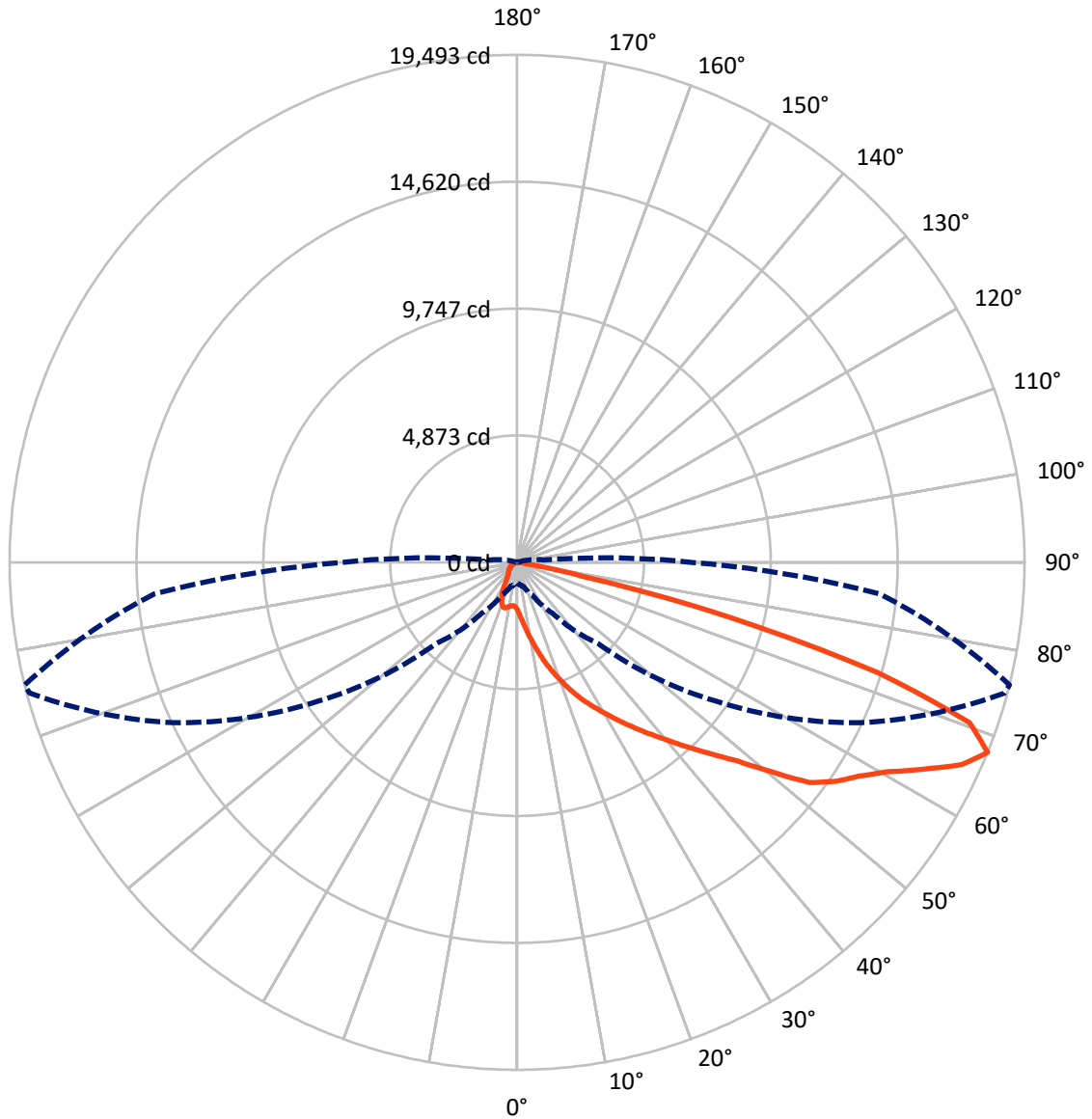
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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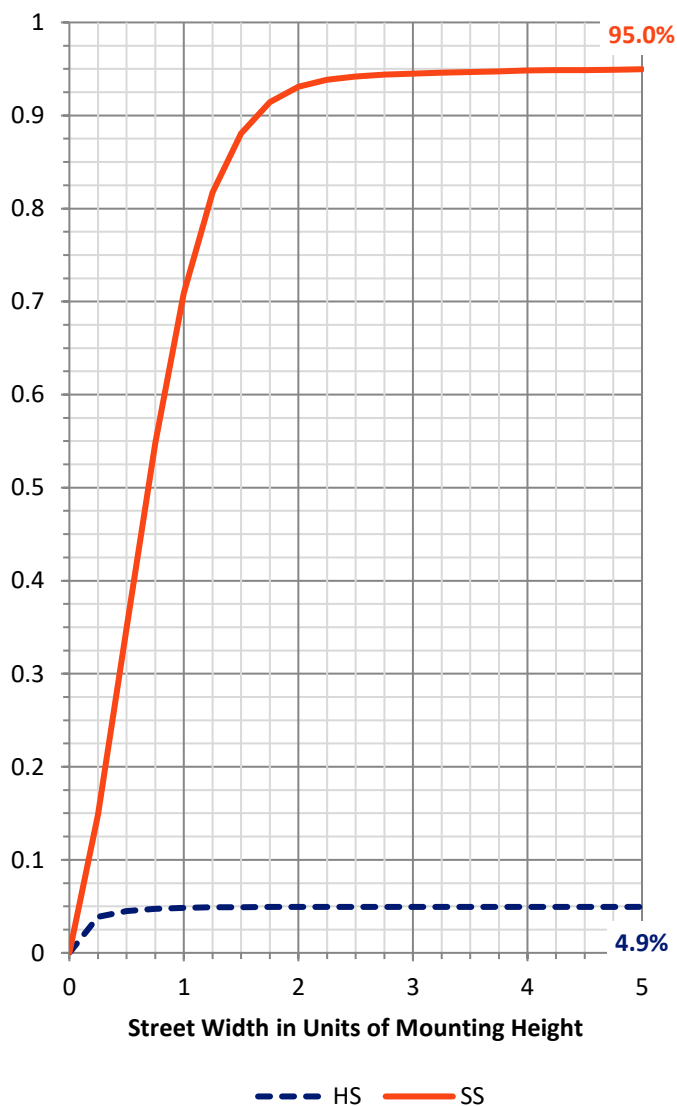
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1065.3	0.0	1065.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	20388.2	0.0	20388.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	21453.5	0.0	21453.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.3	1.1
10°-20°	897.1	4.2
20°-30°	1825.3	8.5
30°-40°	3168.1	14.8
40°-50°	4476.1	20.9
50°-60°	5076.1	23.7
60°-70°	4210.1	19.6
70°-80°	1525.0	7.1
80°-90°	49.5	0.2
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°	21453.5	100.0
0°-180°	21453.5	100.0

**Coefficient of Utilization**

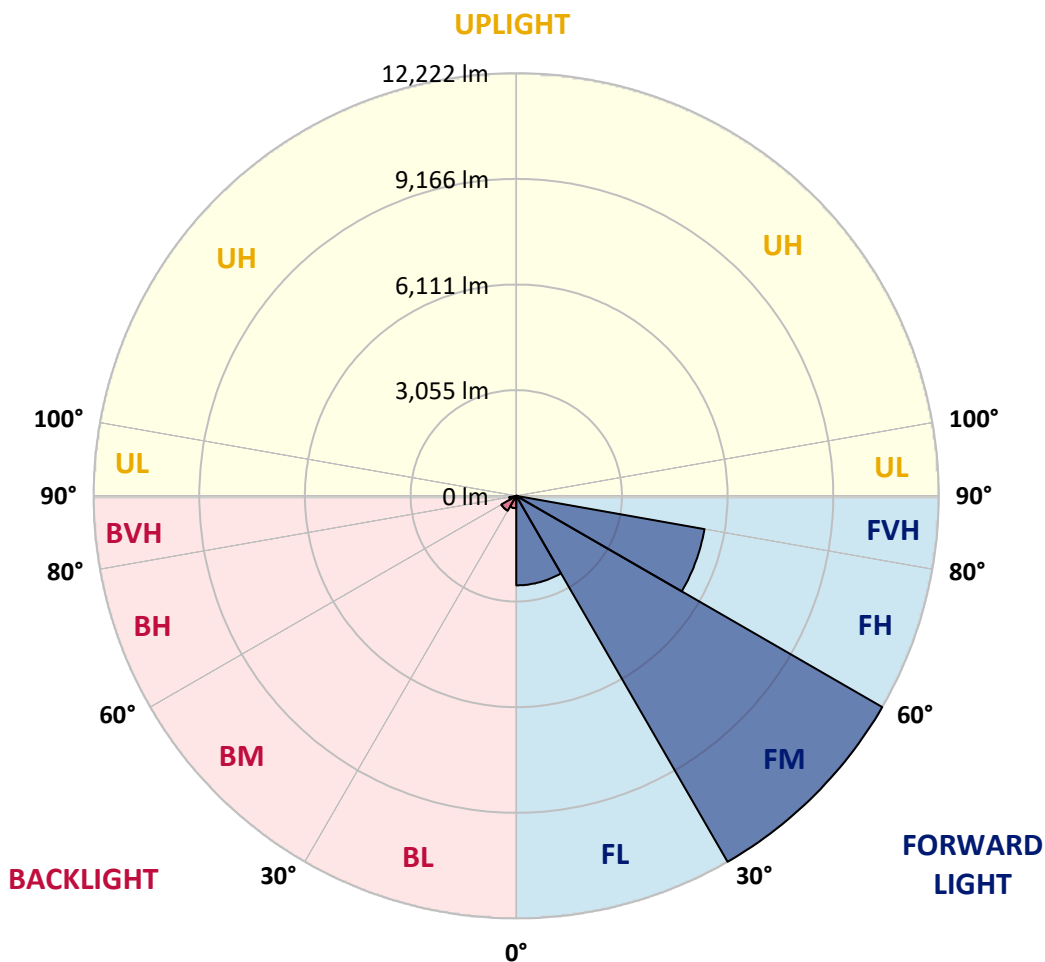


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2589.4	12.1			
FM (30°-60°)	12221.6	57.0			
FH (60°-80°)	5529.3	25.8			G3/7500
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	359.3	1.7	B1/500		
BM (30°-60°)	498.6	2.3	B1/1000		
BH (60°-80°)	205.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9
2.5°	2716.7	2655.6	2669.6	2630.2	2558.8	2412.1	2287.0	2168.6	2030.4	2025.7	1912.0
5°	3663.2	3611.5	3605.0	3525.1	3395.4	3146.2	2903.7	2627.3	2319.0	2296.5	2054.9
7.5°	4522.5	4481.1	4466.0	4371.1	4129.6	3887.0	3571.2	3165.0	2682.9	2641.5	2247.5
10°	5182.3	5162.6	5166.4	5098.6	4891.8	4666.3	4251.7	3733.7	3095.5	3031.5	2478.8
12.5°	5682.4	5687.1	5721.0	5679.6	5563.9	5396.6	4953.9	4340.1	3552.4	3464.9	2742.9
15°	6049.9	6073.5	6135.5	6187.2	6178.8	6034.0	5627.9	4955.8	4037.4	3940.5	3037.2
17.5°	6287.8	6314.1	6404.4	6519.1	6624.3	6590.5	6278.4	5549.9	4528.1	4416.2	3352.1
20°	6496.5	6527.5	6624.3	6775.7	6972.2	7014.5	6809.5	6126.1	5017.9	4881.5	3677.4
22.5°	6948.6	6947.7	7006.9	7095.3	7282.4	7391.4	7261.7	6661.0	5501.9	5360.0	4009.2
25°	7766.5	7735.5	7714.8	7645.2	7686.6	7754.2	7681.8	7161.1	5988.9	5845.1	4345.8
27.5°	8738.5	8757.2	8589.9	8402.8	8258.1	8188.5	8070.1	7624.5	6457.0	6299.1	4674.7
30°	9764.0	9769.6	9572.2	9333.5	9014.8	8750.7	8545.7	8067.3	6938.3	6766.3	4994.3
32.5°	10688.9	10652.3	10456.8	10131.5	9729.2	9432.2	9006.4	8561.8	7447.8	7281.4	5349.7
35°	11422.2	11378.9	11141.1	10845.0	10427.7	10128.7	9616.5	9055.2	7983.6	7821.0	5705.9
37.5°	11958.0	11907.2	11662.9	11358.3	10998.2	10824.3	10324.2	9592.0	8568.3	8393.4	6081.0
40°	12144.1	12100.0	11946.7	11724.0	11434.5	11395.0	11075.4	10209.6	9204.7	9018.6	6505.9
42.5°	12033.2	11989.9	11935.5	11860.3	11739.9	11777.6	11784.1	10913.6	9911.6	9728.2	6975.0
45°	11593.3	11554.7	11611.2	11721.1	11870.6	12056.7	12430.9	11670.3	10701.2	10505.7	7517.3
47.5°	10945.6	10917.4	11073.5	11347.9	11785.0	12298.3	13022.1	12465.6	11587.6	11406.2	8194.2
50°	10024.4	10019.7	10331.8	10832.8	11504.9	12414.8	13633.1	13369.9	12819.1	12628.2	9135.1
52.5°	8589.9	8599.3	9213.2	10015.0	11013.3	12335.9	14026.0	14531.8	14251.7	14053.3	9950.1
55°	7224.1	7280.5	7715.7	8872.0	10259.4	12042.6	14161.4	15074.2	15042.3	14854.2	10403.2
57.5°	5886.4	5988.9	6408.1	7488.2	9158.6	11366.7	14087.1	15309.1	15630.7	15486.9	11001.1
60°	4436.9	4483.9	4967.1	5976.6	7745.8	10133.5	13548.5	15437.0	16435.3	16335.7	11868.8
62.5°	2822.9	2940.4	3369.0	4342.9	6031.2	8420.7	12640.4	15435.2	17442.1	17496.6	12988.3
65°	1487.1	1624.3	1851.8	2691.2	4144.5	6507.8	11274.6	15290.4	18677.2	18753.5	13863.5
67.5°	801.9	841.3	961.6	1396.9	2403.7	4408.7	9267.7	14576.0	19392.7	19493.2	13985.6
70°	586.6	608.2	653.3	772.7	1209.8	2560.6	6762.5	12956.3	18470.4	18432.9	12426.1
72.5°	450.3	484.1	517.9	565.9	695.6	1366.8	4210.3	10145.7	14737.6	14489.5	9288.4
75°	355.3	361.0	408.9	452.2	521.7	778.3	1869.7	5909.0	8995.0	8407.6	4816.7
77.5°	283.8	287.7	315.9	353.4	419.3	511.3	579.0	2324.7	2871.8	2562.5	1045.3
80°	168.2	177.6	235.0	272.6	347.8	322.4	211.5	504.8	448.4	406.1	175.8
82.5°	94.0	101.5	132.6	215.3	242.5	154.2	105.3	136.3	105.3	102.5	49.8
85°	0.0	4.7	85.5	133.5	98.7	33.8	44.2	45.1	31.0	29.2	19.7
87.5°	0.0	0.0	26.4	25.3	3.7	5.7	10.3	15.0	12.2	12.2	10.3
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°	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9
2.5°	1855.6	1804.9	1708.9	1614.9	1536.0	1471.1	1412.9	1389.3	1370.6	1367.7	1352.7
5°	1938.4	1835.9	1652.6	1502.1	1401.6	1330.2	1269.0	1231.4	1202.3	1191.0	1180.6
7.5°	2063.4	1908.3	1645.0	1472.0	1351.8	1231.4	1118.6	996.4	920.3	891.1	874.3
10°	2215.6	2004.1	1673.2	1463.6	1253.0	999.3	812.2	657.1	594.0	573.4	567.8
12.5°	2393.3	2123.5	1722.2	1411.0	1042.5	709.7	560.2	507.6	493.5	486.9	486.9
15°	2597.2	2254.2	1756.9	1258.7	770.9	536.8	485.1	460.7	445.6	437.1	438.0
17.5°	2806.0	2382.1	1739.9	1037.7	568.7	477.5	438.9	412.7	392.0	383.5	381.7
20°	3016.5	2500.5	1646.0	772.7	481.3	433.4	390.1	361.0	340.3	331.8	330.0
22.5°	3234.6	2601.1	1480.5	566.8	432.4	384.4	342.2	313.0	293.3	285.8	282.0
25°	3447.1	2682.9	1249.3	458.7	386.3	338.4	298.0	270.7	252.8	245.4	244.4
27.5°	3645.4	2734.6	981.4	405.1	345.9	297.1	260.4	236.0	220.9	215.3	214.3
30°	3824.0	2739.2	725.7	365.6	310.2	261.3	227.5	205.9	192.7	187.1	185.2
32.5°	4004.5	2699.7	528.3	330.0	277.3	230.3	197.4	180.4	171.1	166.4	166.4
35°	4174.6	2608.5	411.7	298.9	245.4	200.2	173.9	161.7	156.0	151.4	151.4
37.5°	4341.0	2477.9	349.7	271.6	215.3	174.9	153.2	145.7	141.0	136.3	136.3
40°	4510.2	2313.4	317.8	246.3	190.8	155.1	136.3	129.8	125.0	121.3	120.4
42.5°	4718.0	2123.5	297.1	222.8	169.2	137.2	120.4	112.8	109.1	105.3	103.4
45°	4958.6	1960.0	280.1	199.3	151.4	122.2	104.3	96.8	91.2	86.4	85.5
47.5°	5305.4	1841.5	257.6	173.9	134.4	106.2	90.3	81.8	73.3	68.7	67.7
50°	5748.2	1743.8	228.4	151.4	117.5	90.3	75.2	64.8	57.4	52.6	52.6
52.5°	5968.2	1615.9	202.1	131.6	98.7	76.1	61.1	48.9	45.1	40.4	40.4
55°	6056.5	1518.1	175.8	111.9	81.8	63.0	48.0	37.6	34.7	32.0	31.0
57.5°	6304.7	1489.9	153.2	94.9	67.7	49.8	36.7	28.2	26.4	22.5	22.5
60°	6704.3	1504.1	132.6	80.9	54.5	38.6	27.3	21.6	19.7	16.0	16.0
62.5°	7135.7	1486.2	111.9	69.6	42.3	28.2	18.8	16.0	16.0	9.4	8.5
65°	7218.5	1323.5	95.9	57.4	32.9	20.7	12.2	10.3	14.1	1.9	0.0
67.5°	6699.5	1026.5	82.7	44.2	24.4	16.0	9.4	4.7	12.2	0.0	0.0
70°	5357.1	652.4	66.7	32.0	18.8	13.1	7.5	1.9	9.4	0.0	0.0
72.5°	3788.3	378.9	52.6	22.5	16.0	10.3	5.7	0.0	5.7	0.0	0.0
75°	1915.7	202.1	32.9	17.0	12.2	7.5	3.7	0.0	0.9	0.0	0.0
77.5°	414.5	94.0	20.7	12.2	8.5	4.7	1.9	0.0	0.0	0.0	0.0
80°	90.3	41.4	13.1	7.5	4.7	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	21.6	6.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	11.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	3.7	0.9	0.9	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)