

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: P382854

Luminaire Tested: **GLEON-SA2B-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2B-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11174.9 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

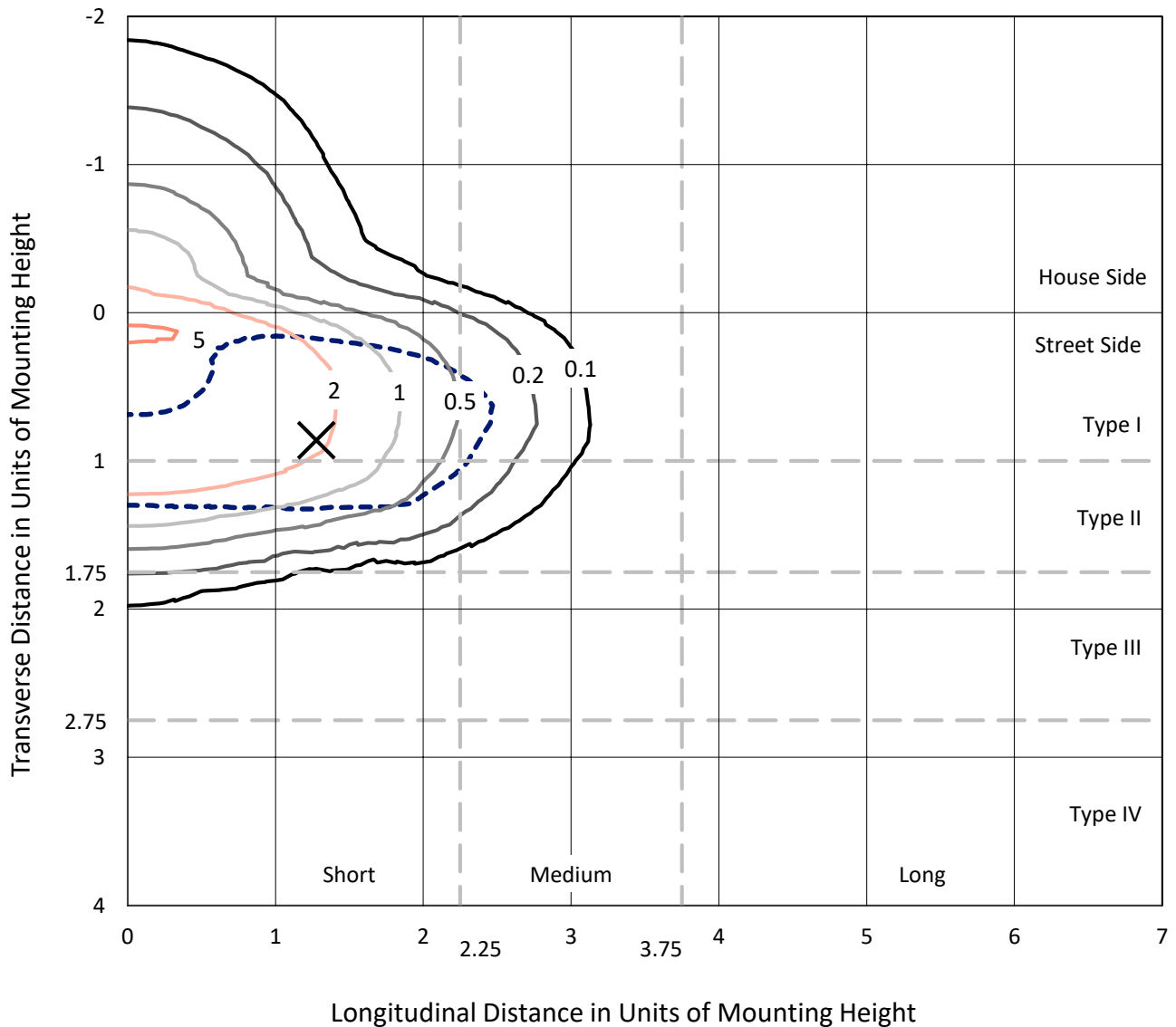
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382854  
 CATALOG NUMBER: GLEON-SA2B-735-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

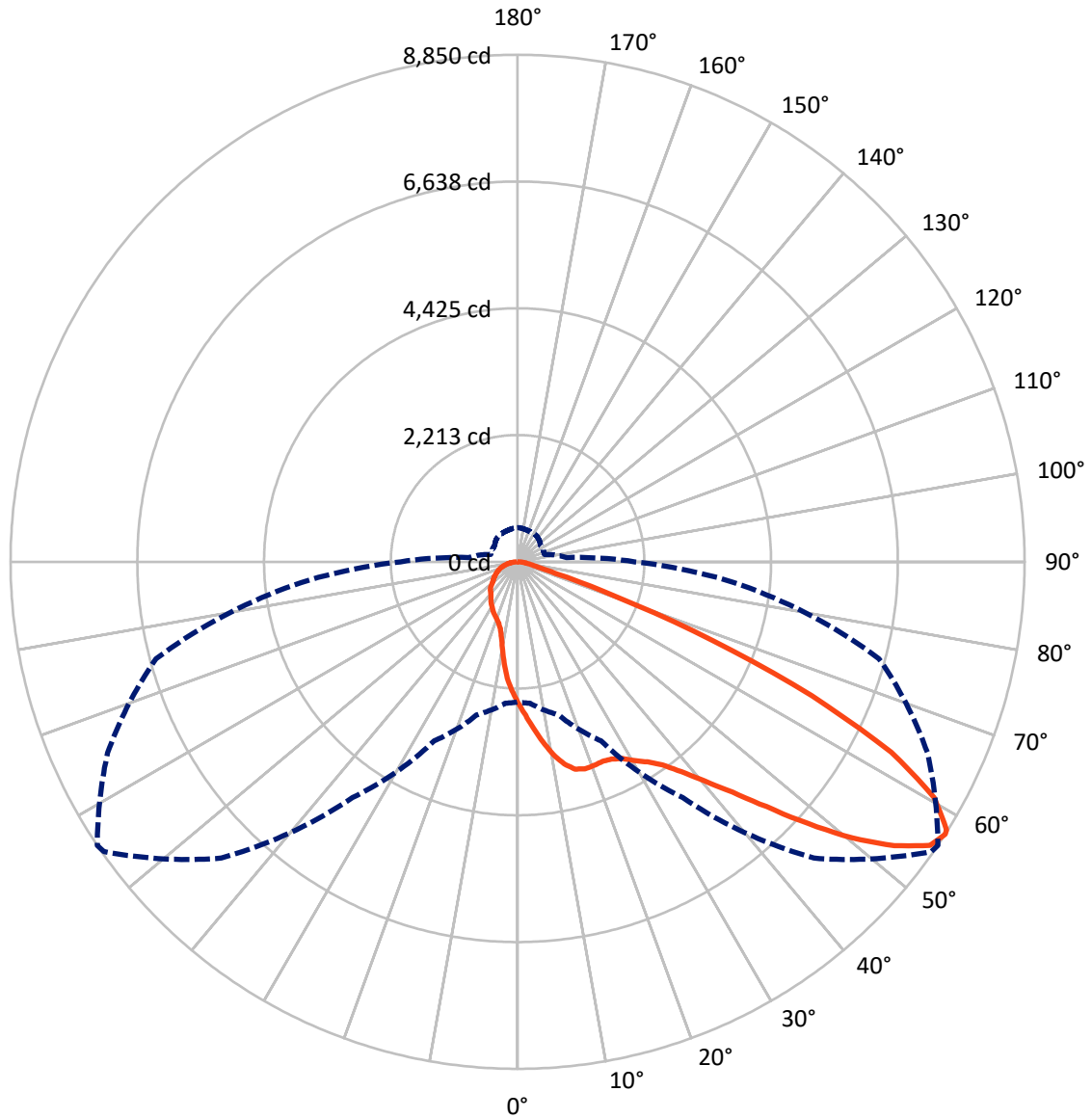
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P382854  
CATALOG NUMBER: GLEON-SA2B-735-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P382854  
 CATALOG NUMBER: GLEON-SA2B-735-U-AFL

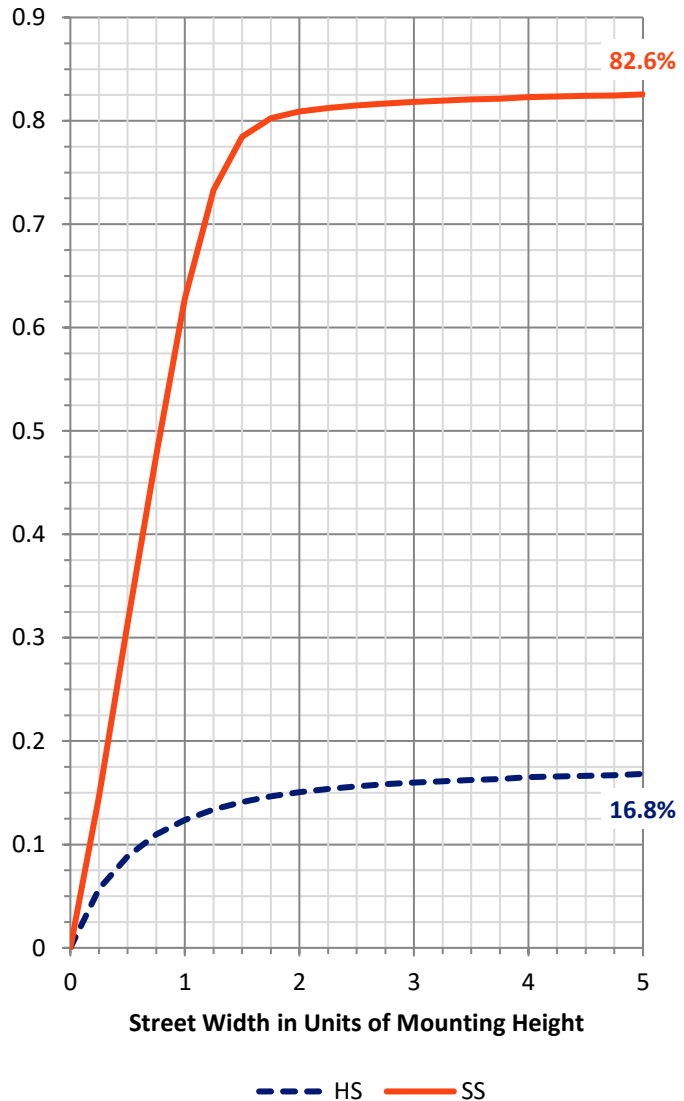
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1926.3	0.0	1926.3
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	9248.5	0.0	9248.5
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	11174.9	0.0	11174.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.8	2.1
10°-20°	669.4	6.0
20°-30°	1090.3	9.8
30°-40°	1629.9	14.6
40°-50°	2472.2	22.1
50°-60°	2770.9	24.8
60°-70°	1636.6	14.6
70°-80°	536.2	4.8
80°-90°	132.5	1.2
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°	11174.9	100.0
0°-180°	11174.9	100.0

**Coefficient of Utilization**



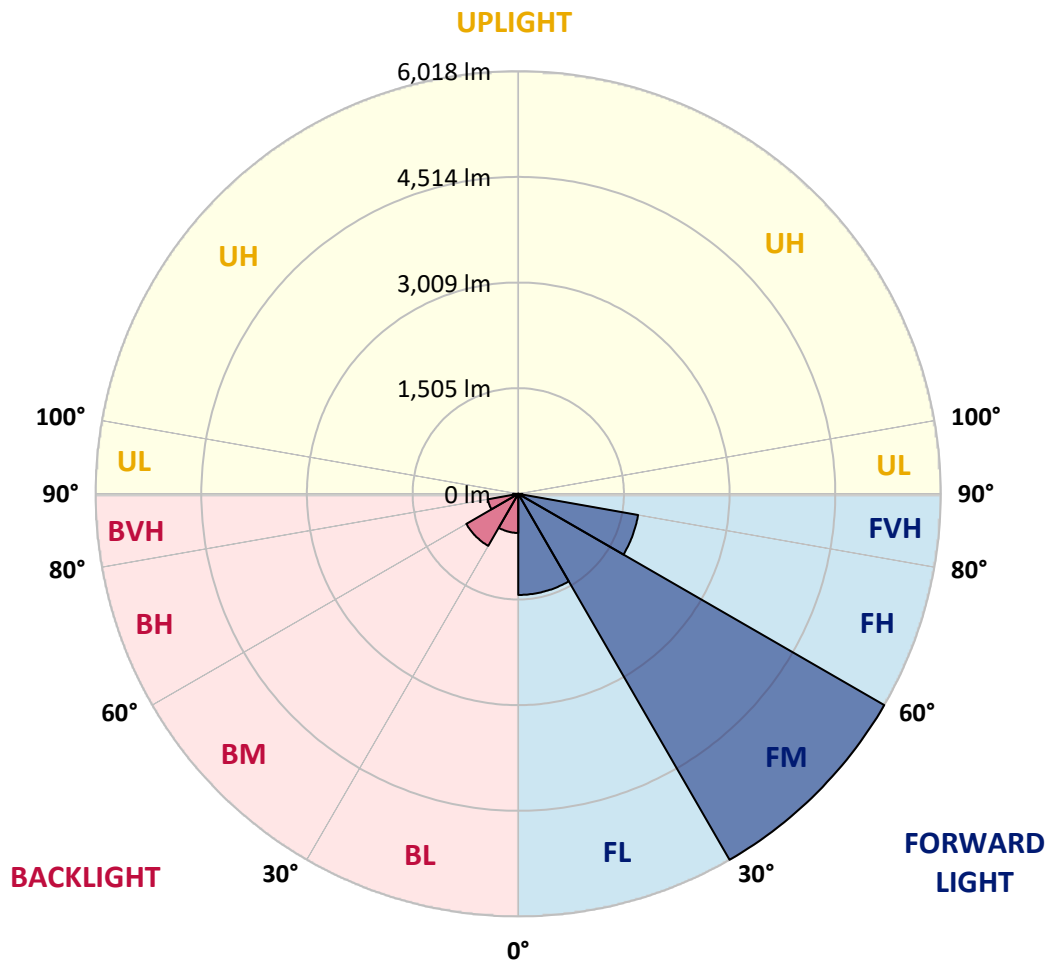
REPORT NUMBER: P382854  
 CATALOG NUMBER: GLEON-SA2B-735-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1439.5	12.9			
FM (30°-60°)	6018.0	53.9			
FH (60°-80°)	1732.7	15.5			G1/1800
FVH (80°-90°)	58.3	0.5			G1/100
BL (0°-30°)	557.0	5.0	B2/1000		
BM (30°-60°)	855.0	7.7	B1/1000		
BH (60°-80°)	440.1	3.9	B1/500		G1/500
BVH (80°-90°)	74.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P382854

CATALOG NUMBER: GLEON-SA2B-735-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6
2.5°	2846.2	2872.2	2860.7	2820.7	2790.1	2746.7	2698.2	2683.7	2632.6	2575.4	2506.6
5°	3296.6	3283.5	3264.7	3202.5	3136.8	3060.4	2939.0	2919.8	2806.2	2676.7	2540.1
7.5°	3553.1	3552.0	3540.8	3504.4	3444.5	3344.6	3198.3	3175.6	3004.0	2795.9	2583.8
10°	3515.8	3513.2	3531.6	3569.7	3587.7	3567.0	3443.7	3421.0	3210.2	2927.6	2634.5
12.5°	3304.3	3305.8	3335.4	3415.2	3524.0	3654.6	3634.5	3623.4	3424.1	3076.5	2696.0
15°	3139.5	3142.9	3166.4	3235.9	3364.2	3601.2	3750.5	3754.4	3631.1	3240.9	2767.8
17.5°	3067.3	3074.7	3085.4	3134.2	3251.7	3494.8	3778.2	3798.9	3812.4	3411.4	2836.9
20°	3090.4	3097.3	3100.4	3131.5	3227.8	3430.2	3759.0	3796.2	3951.3	3571.9	2906.1
22.5°	3193.7	3197.9	3199.8	3207.9	3282.8	3448.7	3746.3	3785.4	4052.0	3715.9	2958.2
25°	3364.9	3361.9	3349.6	3339.2	3389.5	3521.6	3775.5	3812.7	4133.8	3846.5	2992.4
27.5°	3570.1	3566.2	3542.4	3514.0	3542.8	3635.3	3859.6	3889.2	4207.1	3968.7	3009.7
30°	3816.2	3806.2	3761.3	3727.5	3738.6	3805.8	3998.2	4025.1	4320.4	4107.3	3026.6
32.5°	4100.8	4090.1	4025.1	3969.0	3969.0	4025.1	4141.1	4163.4	4416.5	4264.0	3053.9
35°	4457.2	4443.8	4359.3	4265.2	4238.6	4267.0	4335.8	4351.5	4589.3	4461.4	3103.5
37.5°	4877.3	4859.2	4749.8	4623.8	4565.9	4564.3	4613.9	4646.1	4865.4	4720.6	3187.6
40°	5298.5	5285.9	5190.3	5091.2	4977.5	4941.0	5017.5	5027.5	5226.4	5042.5	3295.1
42.5°	5624.2	5622.0	5604.3	5617.3	5501.0	5427.3	5487.2	5495.2	5667.3	5390.8	3409.5
45°	5796.3	5800.2	5885.8	6075.5	6118.5	6064.7	6094.3	6096.6	6171.1	5742.2	3514.4
47.5°	5658.4	5678.4	5895.0	6319.3	6671.6	6850.1	6800.9	6829.4	6659.6	6044.0	3596.5
50°	5121.2	5145.8	5514.4	6210.7	6929.6	7610.1	7584.4	7577.9	7053.7	6265.2	3641.0
52.5°	4455.6	4474.8	4779.0	5645.7	6740.3	8030.2	8266.5	8232.6	7403.9	6430.8	3649.5
55°	3442.2	3472.1	3763.5	4518.2	5974.5	7869.7	8768.0	8737.6	7723.0	6517.6	3639.6
57°	2447.1	2478.6	2768.2	3448.3	5025.9	7314.0	8817.9	8850.2	7895.4	6532.1	3650.6
57.5°	2183.6	2215.9	2502.8	3163.3	4730.2	7113.2	8774.9	8828.6	7926.5	6529.9	3656.8
60°	1099.5	1111.8	1294.6	1765.8	2990.2	5750.6	8213.8	8352.4	7954.6	6416.9	3683.3
62.5°	683.6	674.7	669.0	813.4	1454.7	3813.5	7055.9	7322.9	7418.1	6143.5	3619.2
65°	601.0	584.5	521.1	509.6	642.5	1852.2	5313.5	5645.7	6271.7	5712.6	3466.4
67.5°	564.5	548.4	477.0	434.0	434.4	734.2	3298.9	3673.0	4885.8	4984.1	3105.7
70°	526.9	512.4	445.5	394.8	369.8	406.7	1517.8	1801.5	3184.9	3917.6	2595.8
72.5°	478.5	468.6	405.1	353.0	326.4	304.5	581.0	686.3	1843.8	2631.1	1802.6
75°	427.9	418.6	364.4	314.5	282.3	239.7	327.2	352.6	936.7	1346.1	887.5
77.5°	372.2	366.8	324.1	278.1	252.4	198.5	231.6	243.9	401.7	577.2	445.1
80°	296.1	306.5	283.4	247.7	223.9	159.0	164.0	172.1	233.9	281.9	252.7
82.5°	192.8	210.8	222.0	201.2	184.4	125.2	117.9	121.4	152.5	172.1	109.8
85°	80.3	90.3	146.0	131.7	122.5	91.4	79.1	80.7	94.5	97.9	44.9
87.5°	35.7	38.0	64.1	60.3	51.9	31.5	33.8	36.9	50.3	47.6	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382854  
 CATALOG NUMBER: GLEON-SA2B-735-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6	2478.6
2.5°	2480.9	2448.7	2393.3	2332.3	2282.4	2242.4	2202.1	2174.4	2142.2	2124.9	2116.1
5°	2482.9	2419.4	2303.1	2183.6	2076.9	1979.4	1886.4	1814.9	1748.1	1712.1	1702.0
7.5°	2490.9	2395.7	2207.5	2010.8	1821.1	1647.9	1514.2	1430.6	1370.2	1343.4	1335.7
10°	2497.4	2367.6	2089.2	1798.1	1540.0	1364.5	1260.8	1214.0	1193.2	1189.8	1186.3
12.5°	2512.8	2338.8	1964.7	1576.1	1321.5	1200.1	1164.1	1161.0	1166.7	1175.1	1175.1
15°	2537.0	2310.4	1822.7	1385.6	1182.4	1139.8	1147.1	1164.1	1179.8	1192.8	1194.7
17.5°	2554.7	2275.4	1669.8	1233.2	1108.4	1119.8	1146.0	1169.7	1186.0	1198.6	1199.7
20°	2567.3	2221.3	1506.6	1116.8	1065.7	1101.5	1134.1	1155.2	1166.3	1179.0	1180.9
22.5°	2560.7	2148.7	1361.8	1033.5	1031.1	1074.5	1105.7	1131.0	1122.5	1110.2	1118.3
25°	2529.2	2048.8	1212.8	971.2	994.7	1038.5	1076.9	1059.9	1031.5	1026.2	1029.3
27.5°	2473.3	1921.3	1074.9	913.7	952.4	1005.0	1002.7	985.9	975.9	968.9	973.2
30°	2412.9	1783.1	954.4	863.4	905.6	949.0	940.1	939.7	929.8	918.6	924.0
32.5°	2353.4	1644.1	858.7	821.8	870.3	876.0	895.2	901.0	881.3	858.0	856.4
35°	2301.6	1512.7	786.1	784.2	827.6	828.3	856.4	848.4	799.5	775.4	775.4
37.5°	2262.7	1381.8	730.8	750.5	771.5	791.5	805.7	772.3	764.2	750.8	750.5
40°	2245.9	1266.5	696.2	724.7	732.0	757.3	720.8	733.9	737.8	730.8	730.8
42.5°	2228.2	1166.3	666.3	705.1	704.0	700.5	682.1	698.9	714.3	714.7	713.6
45°	2210.6	1079.9	639.8	663.3	679.4	642.1	645.6	663.6	685.2	692.8	692.8
47.5°	2190.9	1011.6	615.7	619.1	644.1	619.1	616.4	630.2	655.5	667.8	670.5
50°	2148.0	950.1	588.0	580.3	587.2	595.6	598.0	604.5	632.5	652.1	656.7
52.5°	2088.4	895.2	552.6	544.6	544.6	576.4	587.2	589.1	613.0	636.3	641.0
55°	2038.9	860.3	516.2	514.6	513.1	556.1	574.5	577.6	594.1	612.6	614.8
57°	2042.3	857.6	488.1	489.6	489.2	535.4	562.7	569.2	577.6	593.3	596.0
57.5°	2044.3	859.4	482.0	482.7	482.4	529.6	559.2	566.5	573.0	589.5	592.2
60°	2073.1	864.5	457.0	448.5	450.5	498.8	539.6	548.8	553.1	575.0	578.4
62.5°	2030.4	842.2	437.1	416.7	416.7	466.6	512.4	526.9	533.4	563.0	568.8
65°	1906.8	779.6	413.6	380.5	384.4	434.4	479.7	503.5	513.5	550.4	556.5
67.5°	1715.9	707.0	388.6	348.3	352.1	400.6	445.8	471.6	487.4	536.5	541.5
70°	1467.4	618.3	354.8	314.1	318.8	363.7	406.0	435.1	458.5	523.4	525.0
72.5°	1081.8	506.9	307.6	276.5	281.5	320.6	365.6	399.4	430.9	490.8	490.0
75°	643.2	396.4	255.4	238.5	241.9	278.4	329.1	370.2	417.4	478.2	485.4
77.5°	390.2	298.4	208.1	199.7	203.9	241.2	303.0	346.8	411.7	450.9	448.5
80°	235.8	213.1	166.3	160.9	165.2	206.2	280.3	329.1	359.9	385.2	385.2
82.5°	123.2	130.2	122.1	117.9	123.6	167.4	255.0	287.3	318.0	273.0	255.0
85°	50.3	68.0	74.2	73.8	77.2	116.0	220.0	245.7	205.0	194.7	199.4
87.5°	16.9	28.8	36.1	31.1	32.6	72.9	152.5	118.7	140.9	98.3	93.3
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)