

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: P383194

Luminaire Tested: **GLEON-SA5B-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES 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: 22729.8 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

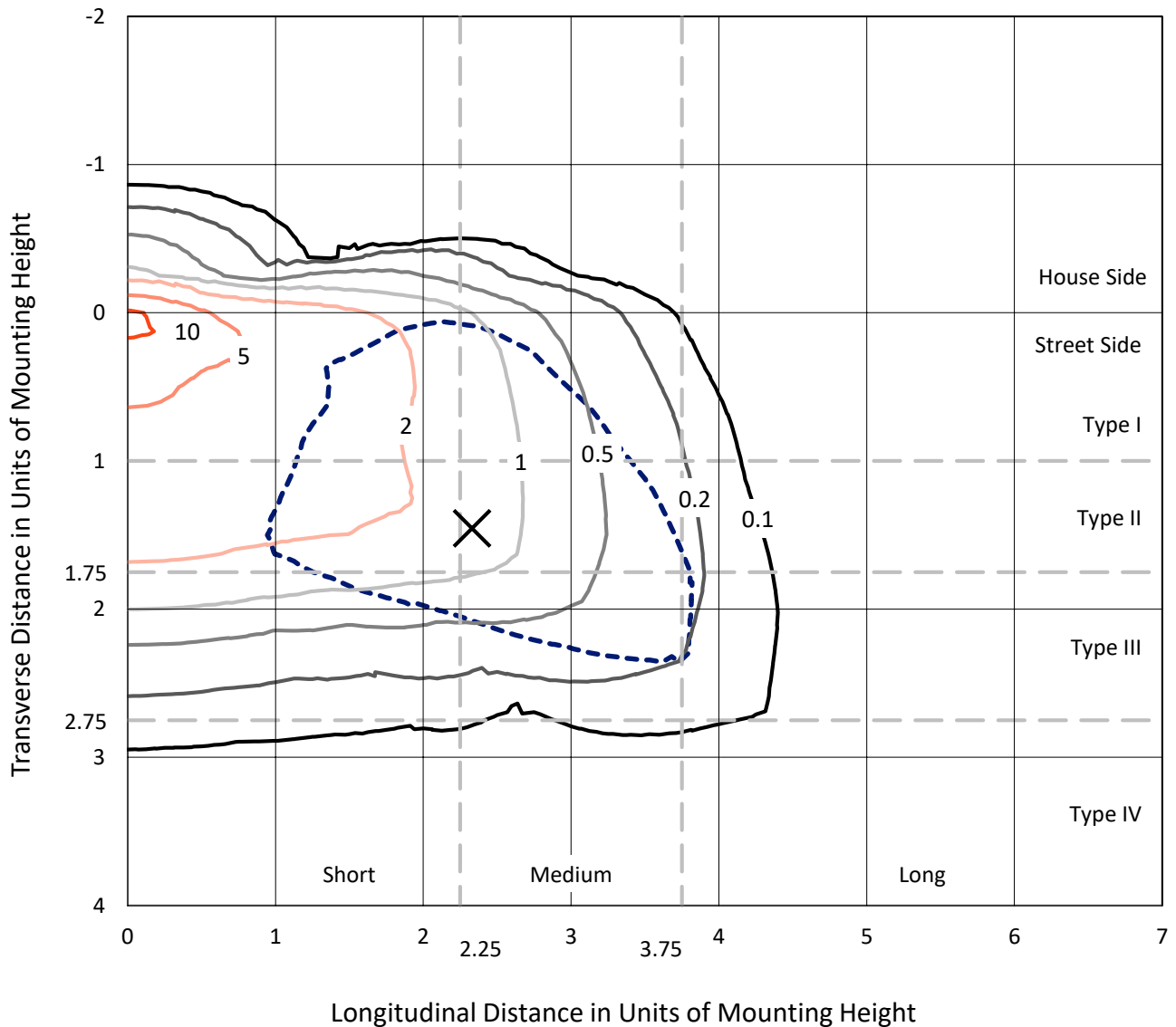
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

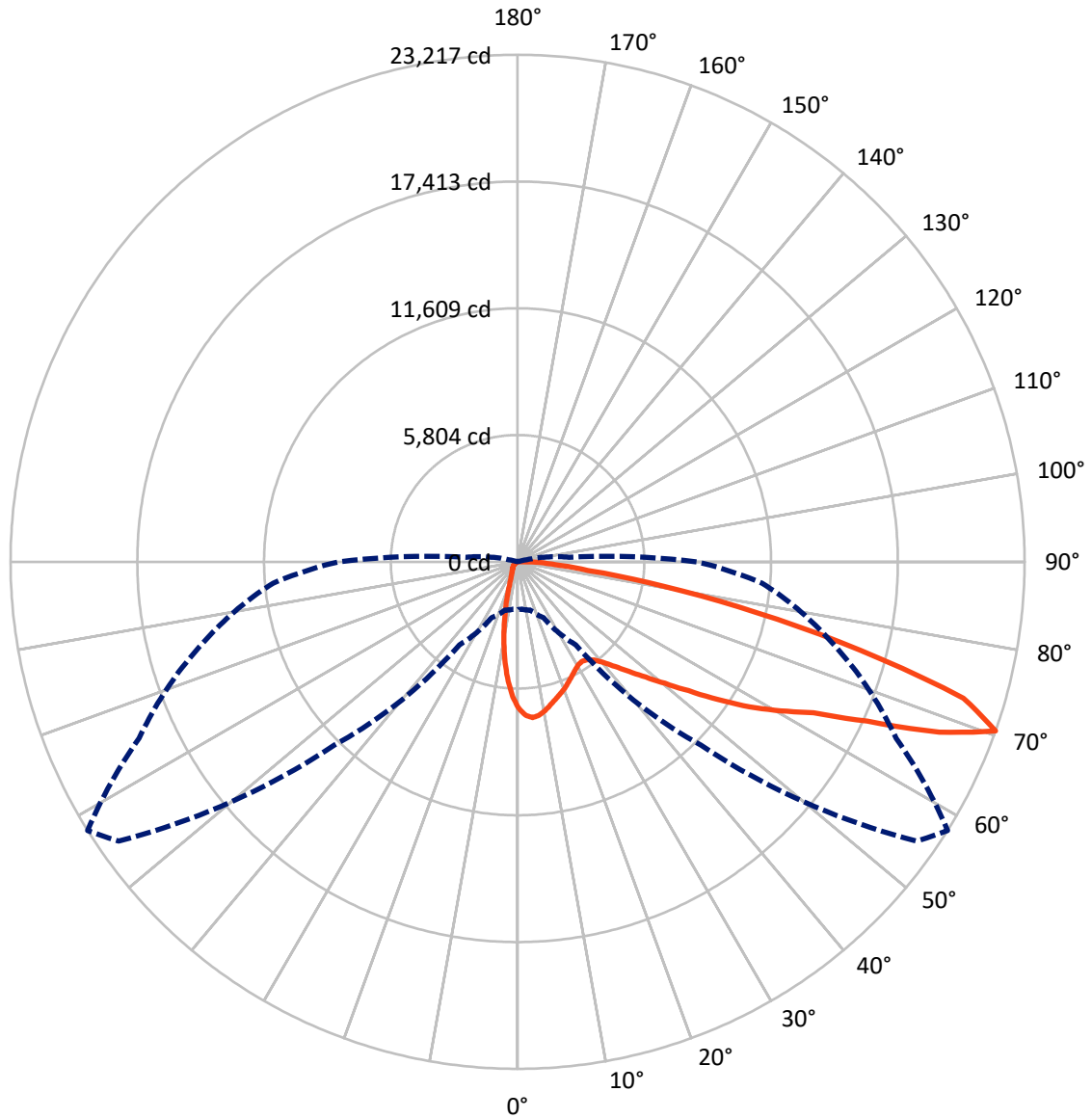
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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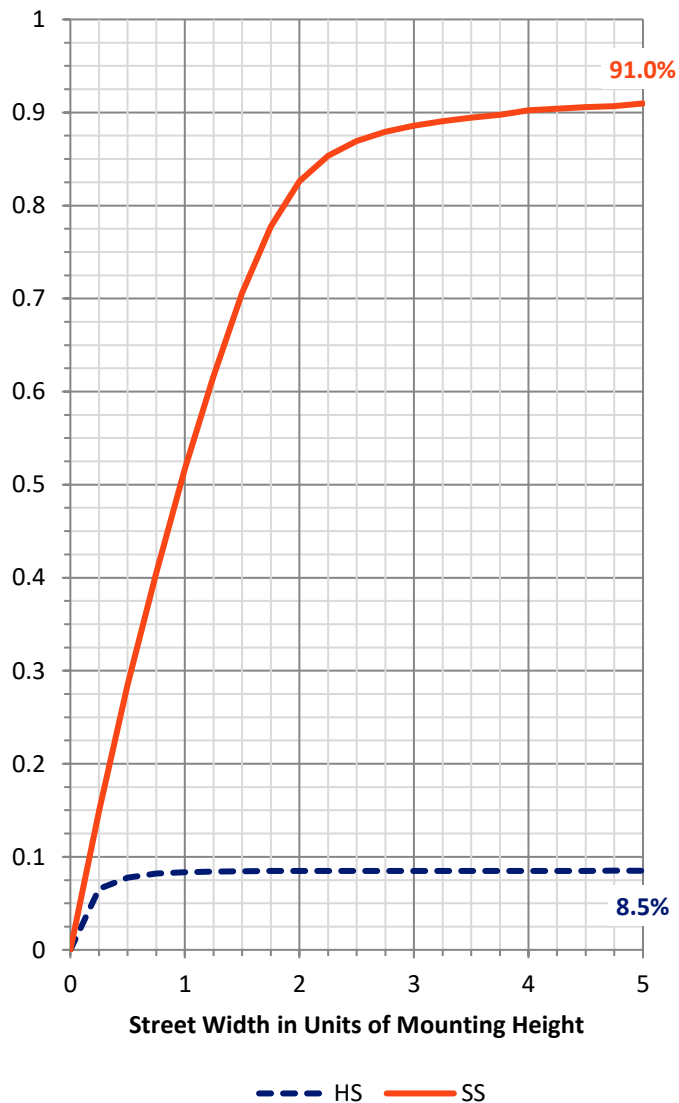
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1945.2	0.0	1945.2
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	20784.6	0.0	20784.6
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	22729.8	0.0	22729.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.1	2.4
10°-20°	1152.3	5.1
20°-30°	1514.9	6.7
30°-40°	2006.4	8.8
40°-50°	2998.9	13.2
50°-60°	4804.1	21.1
60°-70°	6055.5	26.6
70°-80°	3266.3	14.4
80°-90°	382.3	1.7
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°	22729.8	100.0
0°-180°	22729.8	100.0

**Coefficient of Utilization**

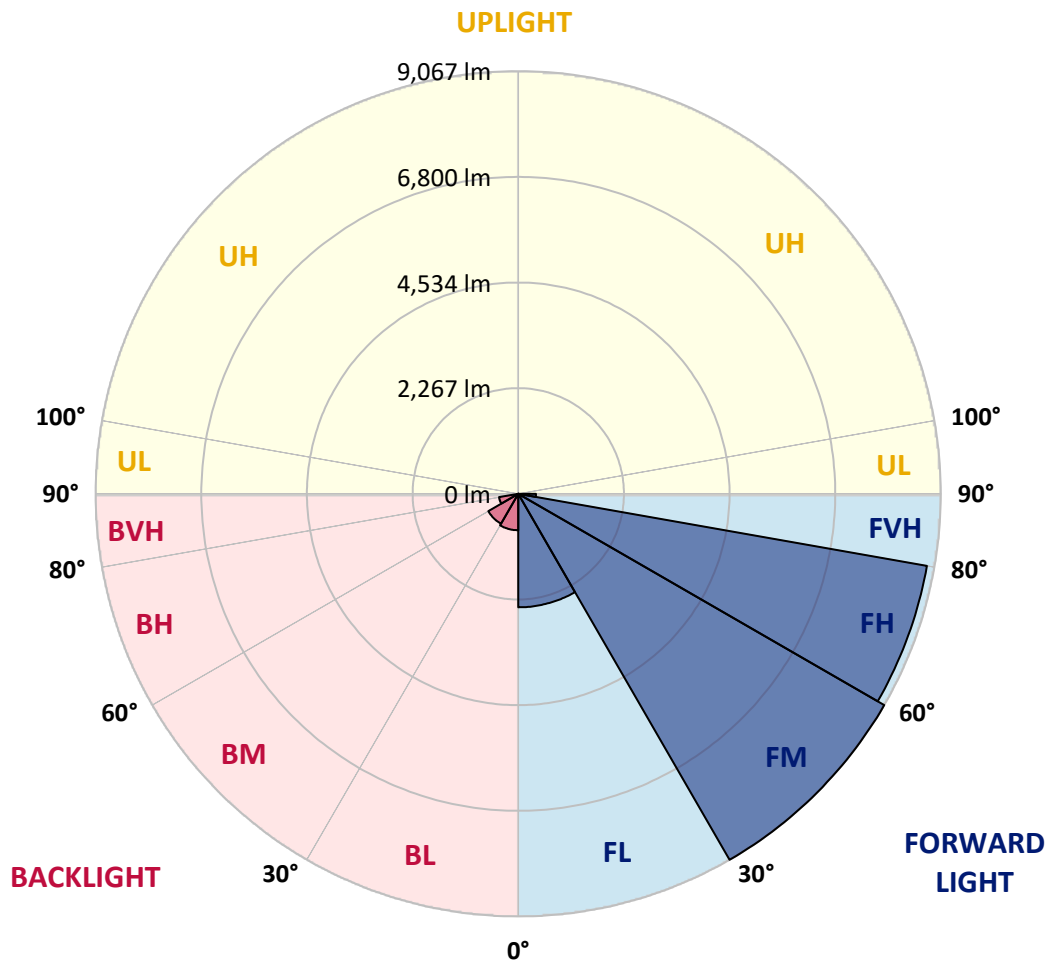


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2434.8	10.7			
FM (30°-60°)	9067.2	39.9			
FH (60°-80°)	8903.5	39.2			G4/12000
FVH (80°-90°)	379.0	1.7			G3/500
BL (0°-30°)	781.5	3.4	B2/1000		
BM (30°-60°)	742.1	3.3	B1/1000		
BH (60°-80°)	418.3	1.8	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2
2.5°	7270.9	7253.0	7246.4	7235.1	7191.5	7149.1	7065.0	7041.3	6988.4	6862.6	6729.4
5°	7276.6	7275.7	7295.5	7290.8	7275.7	7255.8	7195.4	7164.2	7074.4	6894.8	6651.0
7.5°	6926.0	6943.9	6988.4	7024.2	7065.9	7119.7	7127.3	7097.1	7023.3	6829.5	6506.3
10°	6455.3	6483.7	6546.0	6616.9	6725.6	6833.4	6929.8	6926.0	6900.4	6709.6	6332.5
12.5°	5983.7	6016.8	6088.6	6193.5	6347.6	6523.3	6695.4	6719.0	6761.5	6601.8	6171.8
15°	5570.7	5599.0	5669.9	5798.4	5989.4	6225.6	6478.0	6521.5	6631.1	6517.7	6037.5
17.5°	5220.0	5238.0	5290.0	5432.7	5653.8	5940.2	6268.2	6353.2	6516.7	6451.5	5921.3
20°	4975.2	4978.0	5012.1	5112.2	5333.4	5653.8	6050.8	6172.7	6395.7	6394.8	5801.3
22.5°	4854.2	4844.8	4851.4	4909.1	5071.6	5380.7	5833.4	5978.0	6287.1	6346.6	5679.4
25°	4831.6	4824.0	4805.1	4812.7	4910.9	5141.6	5614.2	5781.4	6191.6	6317.3	5573.4
27.5°	4902.5	4910.0	4877.9	4843.9	4851.4	4986.6	5419.5	5613.1	6114.1	6317.3	5498.8
30°	5045.2	5048.9	5025.3	4980.9	4921.4	4943.1	5284.3	5478.1	6075.4	6360.8	5451.6
32.5°	5203.0	5223.7	5221.0	5185.0	5099.9	5012.1	5252.2	5428.9	6072.5	6457.2	5446.9
35°	5398.6	5422.3	5461.9	5454.4	5365.5	5221.0	5361.8	5500.7	6128.3	6615.9	5497.9
37.5°	5606.5	5642.5	5727.5	5768.1	5710.6	5547.0	5607.5	5706.8	6277.6	6873.1	5627.4
40°	5807.9	5848.5	6003.5	6163.2	6119.8	5951.6	5979.9	6059.3	6543.2	7242.6	5873.1
42.5°	6005.4	6065.9	6293.7	6556.4	6608.4	6474.2	6489.3	6552.6	6937.3	7751.0	6274.8
45°	6241.6	6309.7	6647.2	6971.3	7110.3	7051.7	7115.9	7157.5	7452.4	8423.1	6816.3
47.5°	6588.6	6667.0	7081.0	7450.5	7694.4	7732.2	7861.7	7889.1	8103.6	9205.6	7522.3
50°	7265.3	7287.0	7661.3	7996.8	8348.4	8575.3	8722.6	8743.5	8891.9	10061.0	8404.1
52.5°	8116.9	8131.0	8342.8	8567.7	8967.4	9430.6	9775.6	9804.9	9836.0	10894.6	9274.7
55°	8962.8	8960.8	9100.8	9233.0	9690.5	10363.5	11112.0	11129.9	10905.9	11685.7	9940.0
57.5°	9491.1	9542.1	9754.8	9924.9	10563.8	11426.7	12465.4	12531.6	12029.7	12271.6	10597.8
60°	9322.8	9347.4	9819.1	10448.5	11651.7	12938.0	13835.0	13851.9	12874.6	12856.8	11429.5
62.5°	7942.9	7956.2	8697.2	9994.9	12202.7	14898.2	15487.1	15210.1	13846.2	13668.6	12424.8
65°	5444.0	5530.0	6149.1	7753.0	11190.4	16127.9	18044.5	17586.2	15327.3	14838.7	13324.6
67.5°	3205.9	3187.9	3494.1	4675.6	8219.0	15311.3	21279.8	20824.3	17347.1	15622.2	13060.9
70°	2189.9	2177.6	2294.8	2830.7	4639.7	11877.5	22297.7	23217.3	19130.5	15094.8	11240.5
72.5°	1563.2	1569.8	1742.8	2199.3	2912.9	6920.3	19175.0	21351.6	18572.0	13159.1	8544.1
75°	1061.4	1079.4	1327.0	1804.3	2553.7	3520.6	13607.1	16230.8	15123.1	9563.8	4910.9
77.5°	570.9	590.7	882.7	1453.6	2308.9	2446.1	8752.9	11170.6	9499.5	4299.5	1423.4
80°	238.2	249.6	413.0	1056.7	1995.2	2148.3	5150.1	6773.8	4048.0	847.8	317.6
82.5°	103.0	108.7	172.1	630.4	1491.4	1813.7	2726.7	3258.8	1226.8	186.2	159.8
85°	19.8	20.8	70.9	333.7	951.8	1023.6	1767.4	1732.4	551.0	80.3	116.3
87.5°	0.0	0.0	17.0	104.9	279.7	557.6	1078.4	1065.1	187.1	38.8	43.5
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°	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2
2.5°	6661.3	6596.1	6459.1	6289.9	6160.4	6017.7	5904.2	5760.6	5698.3	5701.1	5667.1
5°	6512.0	6377.8	6074.4	5691.7	5396.7	5092.4	4830.6	4569.7	4415.7	4365.6	4318.4
7.5°	6298.4	6085.7	5601.9	5012.1	4513.1	4025.3	3601.0	3227.6	2991.4	2876.1	2833.5
10°	6057.4	5758.7	5058.4	4281.5	3568.9	2909.1	2359.1	1880.8	1689.9	1560.4	1527.4
12.5°	5845.6	5441.2	4527.2	3532.0	2686.1	1890.3	1365.7	1068.0	938.5	887.5	879.0
15°	5646.3	5144.4	4015.9	2853.3	1860.0	1163.5	868.6	767.4	737.2	728.7	728.7
17.5°	5458.2	4861.7	3515.9	2185.1	1230.6	815.7	719.2	696.6	687.1	686.2	687.1
20°	5261.6	4579.2	3024.5	1601.1	859.2	690.9	664.5	652.2	649.3	649.3	649.3
22.5°	5073.5	4296.6	2546.2	1143.7	689.0	630.4	617.2	608.7	605.9	604.9	603.0
25°	4893.0	4028.2	2079.3	808.1	604.9	577.5	566.1	554.8	546.3	541.6	538.7
27.5°	4744.6	3789.1	1644.6	648.4	546.3	522.7	508.4	491.5	470.7	461.2	457.5
30°	4626.4	3570.7	1267.5	547.2	491.5	467.8	446.1	416.8	386.6	370.5	369.5
32.5°	4533.8	3356.2	962.2	483.9	442.3	413.0	381.8	345.0	310.0	292.0	291.1
35°	4488.5	3167.2	735.4	437.6	398.9	362.0	323.2	282.6	248.5	231.6	229.6
37.5°	4518.8	3007.4	573.7	398.9	362.0	319.4	274.1	231.6	201.3	186.2	185.3
40°	4629.3	2905.3	466.0	365.7	330.8	278.8	229.6	189.9	164.4	152.1	151.2
42.5°	4864.6	2867.6	397.9	338.3	300.5	241.0	190.9	156.9	133.3	124.7	122.9
45°	5257.8	2923.3	351.6	311.9	269.4	205.1	157.8	128.6	107.8	101.2	100.1
47.5°	5781.4	3069.8	318.5	286.4	241.0	173.0	131.3	104.0	87.9	81.3	80.3
50°	6456.3	3302.3	291.1	260.8	214.5	146.5	108.7	82.3	68.1	63.3	63.3
52.5°	7190.6	3579.3	266.5	237.3	188.1	121.9	87.9	63.3	53.8	48.2	48.2
55°	7797.4	3821.2	240.1	219.3	155.9	101.2	67.1	48.2	39.7	36.9	36.9
57.5°	8403.2	4079.2	209.8	188.1	124.7	82.3	51.0	36.0	29.3	27.4	27.4
60°	9188.6	4394.9	180.5	153.1	98.3	62.4	37.8	25.5	21.7	20.8	20.8
62.5°	10052.5	4580.1	154.1	122.9	76.6	46.3	27.4	17.0	16.0	16.0	15.1
65°	10580.8	4318.4	129.5	98.3	59.5	34.9	18.0	12.3	14.2	13.2	11.4
67.5°	9906.9	3380.8	105.8	76.6	46.3	26.5	11.4	8.5	15.1	12.3	9.4
70°	8202.8	2366.6	82.3	53.8	36.9	22.7	7.5	5.7	16.0	12.3	7.5
72.5°	6138.7	1584.1	65.2	36.0	27.4	19.8	6.6	2.8	14.2	10.4	6.6
75°	3354.3	637.9	52.0	22.7	17.0	14.2	4.8	1.9	9.4	7.5	4.8
77.5°	882.7	168.2	37.8	15.1	9.4	5.7	2.8	0.9	4.8	3.8	1.9
80°	225.0	65.2	24.6	10.4	6.6	2.8	0.0	0.0	0.9	0.0	0.0
82.5°	120.1	27.4	15.1	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	90.7	18.0	8.5	4.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.9	5.7	2.8	0.0	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)