

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: P323652

Luminaire Tested: **GLEON-SA8C-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323652  
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-SA8C-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA 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: 35600 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

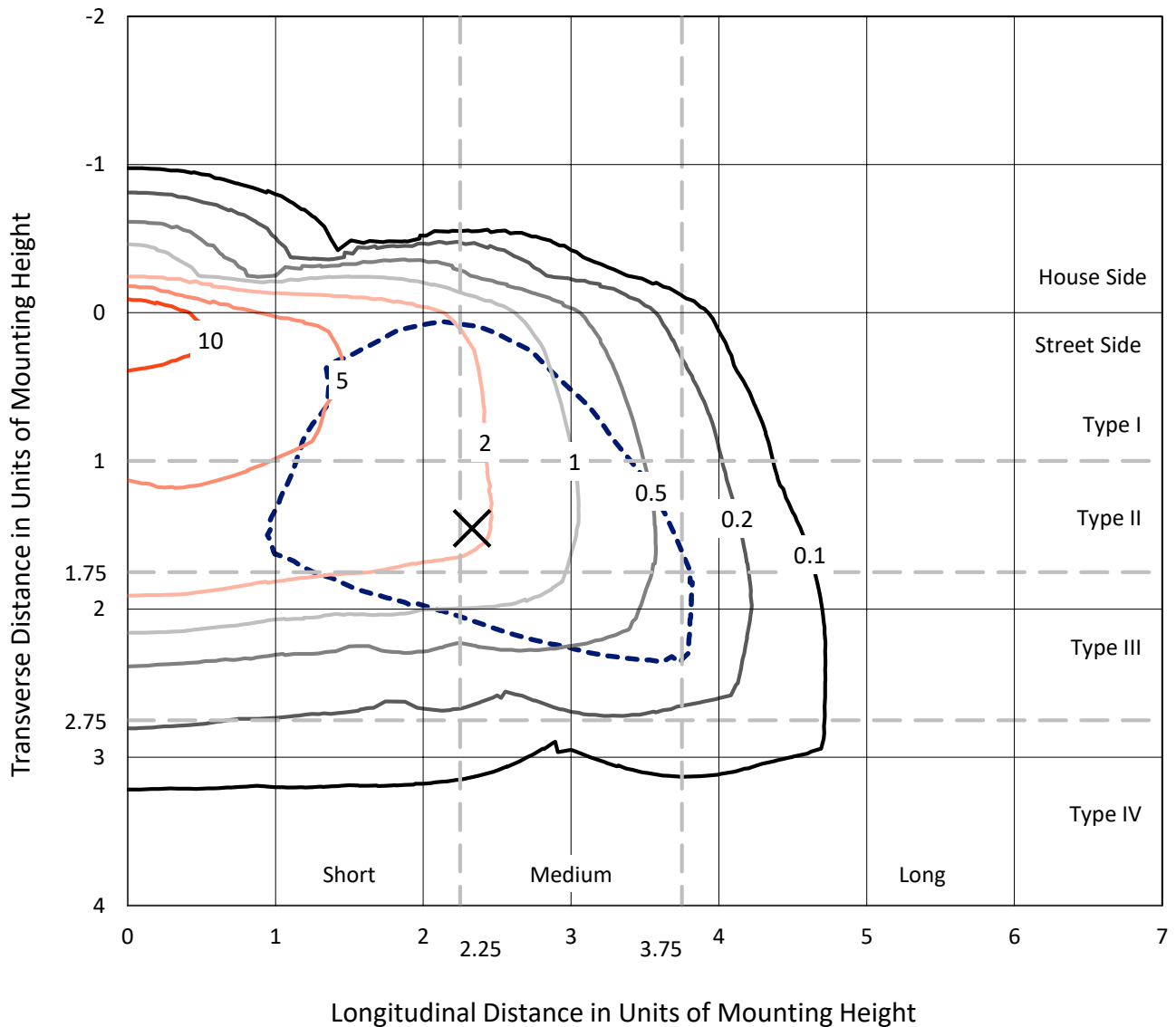
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

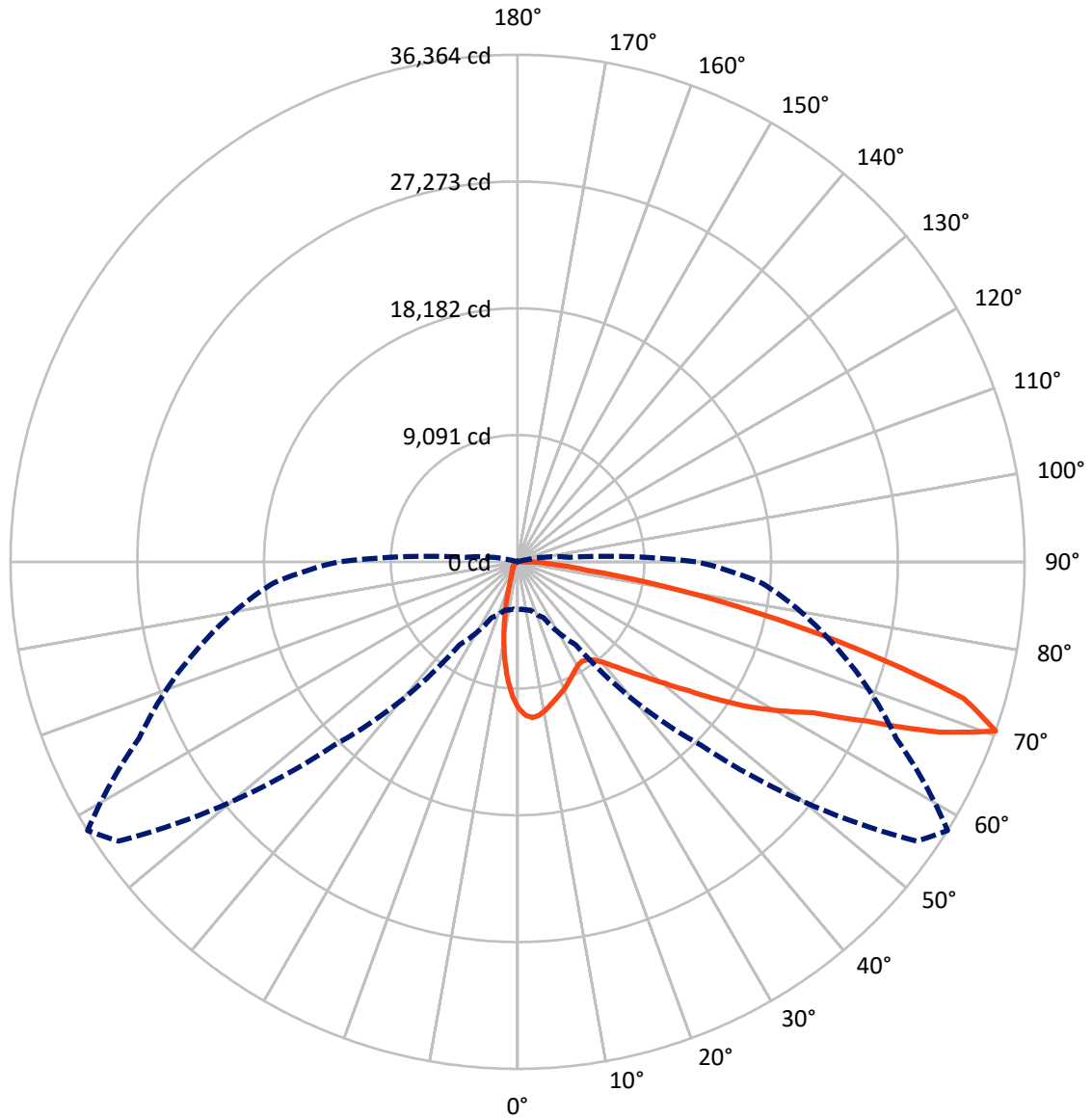
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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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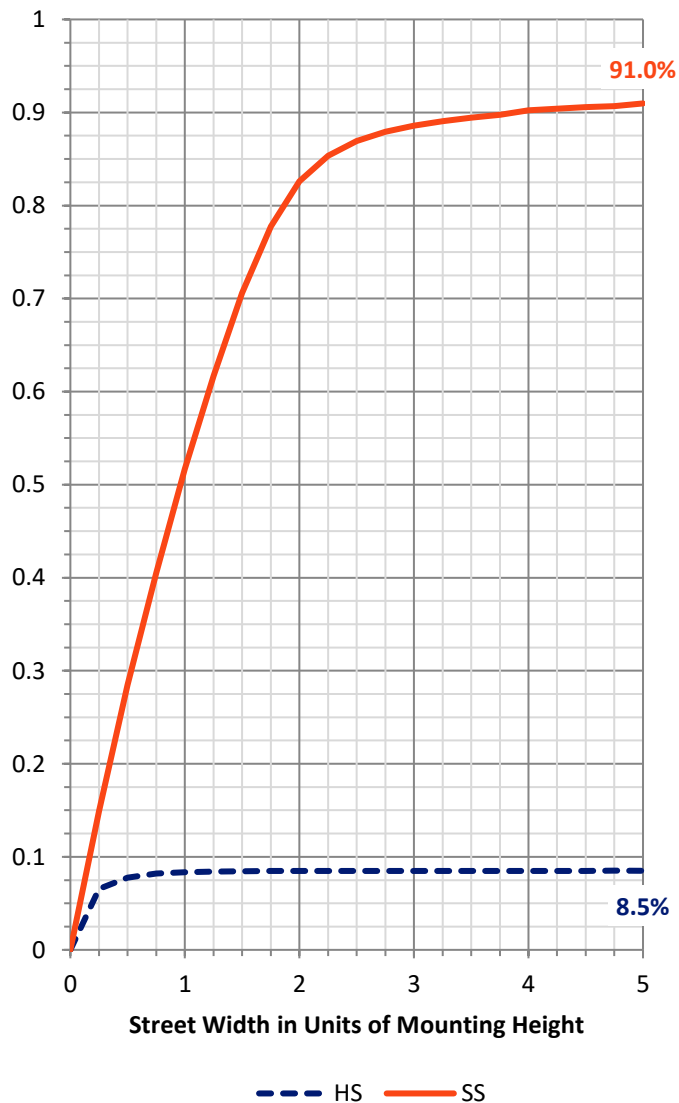
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3046.6	0.0	3046.6
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	32553.4	0.0	32553.4
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	35600.0	0.0	35600.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	859.9	2.4
10°-20°	1804.8	5.1
20°-30°	2372.7	6.7
30°-40°	3142.4	8.8
40°-50°	4696.9	13.2
50°-60°	7524.3	21.1
60°-70°	9484.3	26.6
70°-80°	5115.8	14.4
80°-90°	598.8	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°	35600.0	100.0
0°-180°	35600.0	100.0

**Coefficient of Utilization**



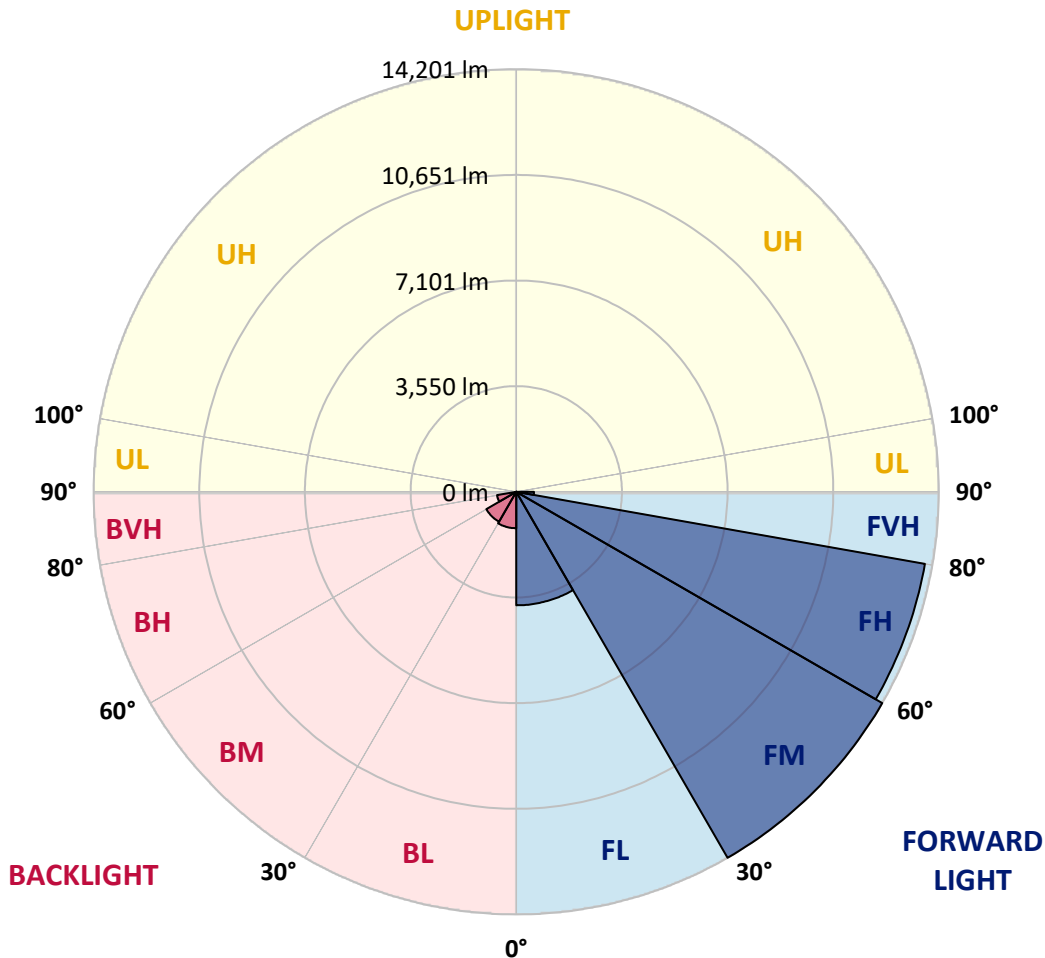
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3813.5	10.7			
FM (30°-60°)	14201.4	39.9			
FH (60°-80°)	13944.9	39.2			G5
FVH (80°-90°)	593.6	1.7			G4/750
BL (0°-30°)	1224.0	3.4	B3/2500		
BM (30°-60°)	1162.2	3.3	B2/2500		
BH (60°-80°)	655.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1
2.5°	11388.0	11359.8	11349.5	11331.7	11263.6	11197.0	11065.3	11028.3	10945.4	10748.5	10539.8
5°	11396.9	11395.4	11426.5	11419.1	11395.4	11364.3	11269.5	11220.7	11080.1	10798.8	10416.9
7.5°	10847.7	10875.8	10945.4	11001.6	11066.7	11151.1	11163.0	11115.6	11000.1	10696.7	10190.4
10°	10110.5	10154.9	10252.6	10363.6	10533.8	10702.6	10853.6	10847.7	10807.7	10508.7	9918.0
12.5°	9371.8	9423.6	9536.1	9700.4	9941.7	10217.1	10486.5	10523.5	10590.1	10339.9	9666.4
15°	8724.9	8769.3	8880.3	9081.7	9380.7	9750.8	10146.0	10214.1	10385.8	10208.2	9456.2
17.5°	8175.7	8203.8	8285.3	8508.8	8855.2	9303.7	9817.4	9950.6	10206.7	10104.5	9274.1
20°	7792.3	7796.8	7850.0	8007.0	8353.3	8855.2	9476.9	9667.9	10017.2	10015.7	9086.1
22.5°	7602.8	7588.0	7598.4	7688.7	7943.3	8427.4	9136.4	9362.9	9847.0	9940.2	8895.1
25°	7567.3	7555.5	7525.9	7537.7	7691.7	8052.8	8793.0	9055.0	9697.5	9894.3	8729.3
27.5°	7678.3	7690.2	7639.8	7586.6	7598.4	7810.1	8488.1	8791.5	9576.1	9894.3	8612.4
30°	7901.9	7907.8	7870.8	7801.2	7707.9	7742.0	8276.4	8579.8	9515.4	9962.4	8538.4
32.5°	8149.1	8181.6	8177.2	8120.9	7987.7	7850.0	8226.0	8502.9	9510.9	10113.4	8531.0
35°	8455.5	8492.5	8554.7	8542.8	8403.7	8177.2	8397.8	8615.4	9598.3	10362.1	8610.9
37.5°	8781.2	8837.4	8970.6	9034.3	8944.0	8687.9	8782.6	8938.1	9832.2	10764.8	8813.7
40°	9096.5	9160.1	9402.9	9653.1	9585.0	9321.5	9365.9	9490.2	10248.1	11343.6	9198.6
42.5°	9405.8	9500.6	9857.3	10268.9	10350.3	10140.1	10163.8	10262.9	10865.4	12140.0	9827.7
45°	9775.9	9882.5	10411.0	10918.7	11136.3	11044.5	11145.2	11210.3	11672.2	13192.5	10675.9
47.5°	10319.2	10442.1	11090.4	11669.2	12051.1	12110.4	12313.2	12356.1	12692.1	14418.1	11781.7
50°	11379.1	11413.1	11999.3	12524.8	13075.5	13430.8	13661.7	13694.3	13926.7	15757.8	13162.9
52.5°	12712.8	12735.0	13066.6	13418.9	14045.1	14770.5	15310.8	15356.7	15405.5	17063.5	14526.2
55°	14037.7	14034.8	14253.8	14461.1	15177.5	16231.5	17403.9	17432.0	17081.2	18302.5	15568.3
57.5°	14865.2	14945.1	15278.2	15544.7	16545.3	17896.9	19523.7	19627.3	18841.3	19220.3	16598.6
60°	14601.7	14640.2	15378.9	16364.7	18249.2	20263.9	21668.7	21695.3	20164.7	20136.6	17901.3
62.5°	12440.5	12461.2	13621.7	15654.2	19112.2	23334.0	24256.2	23822.5	21686.4	21408.1	19460.1
65°	8526.5	8661.3	9630.9	12142.9	17526.8	25259.9	28261.9	27544.0	24006.1	23240.8	20869.3
67.5°	5021.2	4993.1	5472.7	7323.1	12872.7	23980.9	33329.0	32615.5	27169.5	24467.9	20456.3
70°	3429.9	3410.6	3594.2	4433.5	7266.8	18603.0	34923.3	36363.6	29962.8	23641.9	17605.2
72.5°	2448.4	2458.8	2729.7	3444.7	4562.3	10838.8	30032.4	33441.5	29088.0	20610.3	13381.9
75°	1662.4	1690.5	2078.3	2825.9	3999.8	5514.1	21311.9	25421.2	23686.3	14979.2	7691.7
77.5°	894.1	925.2	1382.6	2276.7	3616.4	3831.0	13709.1	17495.7	14878.5	6733.9	2229.3
80°	373.0	390.8	646.9	1655.0	3124.9	3364.7	8066.2	10609.3	6340.1	1327.8	497.4
82.5°	161.4	170.2	269.4	987.4	2335.9	2840.7	4270.7	5104.1	1921.4	291.6	250.2
85°	31.1	32.6	111.0	522.5	1490.7	1603.2	2768.2	2713.4	863.0	125.8	182.1
87.5°	0.0	0.0	26.6	164.3	438.2	873.4	1689.0	1668.3	293.1	60.7	68.1
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°	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1	10516.1
2.5°	10433.2	10331.0	10116.4	9851.4	9648.6	9425.1	9247.5	9022.4	8924.7	8929.2	8875.9
5°	10199.3	9989.1	9513.9	8914.4	8452.5	7975.9	7565.8	7157.3	6916.0	6837.5	6763.5
7.5°	9864.7	9531.7	8773.8	7850.0	7068.4	6304.6	5640.0	5055.2	4685.2	4504.6	4437.9
10°	9487.3	9019.5	7922.6	6705.8	5589.6	4556.4	3694.8	2945.8	2646.8	2444.0	2392.2
12.5°	9155.7	8522.1	7090.7	5531.9	4207.0	2960.6	2139.0	1672.7	1469.9	1390.0	1376.7
15°	8843.3	8057.3	6289.8	4469.0	2913.2	1822.3	1360.4	1202.0	1154.6	1141.3	1141.3
17.5°	8548.7	7614.7	5506.7	3422.5	1927.4	1277.5	1126.5	1091.0	1076.2	1074.7	1076.2
20°	8240.8	7172.1	4737.0	2507.6	1345.6	1082.1	1040.7	1021.4	1017.0	1017.0	1017.0
22.5°	7946.3	6729.5	3987.9	1791.2	1079.1	987.4	966.6	953.3	948.9	947.4	944.4
25°	7663.5	6309.1	3256.7	1265.7	947.4	904.5	886.7	868.9	855.6	848.2	843.8
27.5°	7431.1	5934.5	2575.7	1015.5	855.6	818.6	796.4	769.8	737.2	722.4	716.5
30°	7246.1	5592.6	1985.1	857.1	769.8	732.7	698.7	652.8	605.4	580.3	578.8
32.5°	7101.0	5256.6	1506.9	757.9	692.8	646.9	598.0	540.3	485.5	457.4	455.9
35°	7030.0	4960.5	1151.7	685.4	624.7	567.0	506.3	442.6	389.3	362.7	359.7
37.5°	7077.3	4710.3	898.5	624.7	567.0	500.3	429.3	362.7	315.3	291.6	290.1
40°	7250.5	4550.5	729.8	572.9	518.1	436.7	359.7	297.5	257.6	238.3	236.8
42.5°	7619.1	4491.2	623.2	529.9	470.7	377.5	299.0	245.7	208.7	195.4	192.4
45°	8234.9	4578.6	550.7	488.5	421.9	321.2	247.2	201.3	168.8	158.4	156.9
47.5°	9055.0	4808.0	498.9	448.5	377.5	270.9	205.8	162.8	137.7	127.3	125.8
50°	10111.9	5172.2	455.9	408.6	336.0	229.4	170.2	128.8	106.6	99.2	99.2
52.5°	11262.1	5605.9	417.4	371.6	294.6	191.0	137.7	99.2	84.4	75.5	75.5
55°	12212.5	5984.9	376.0	343.4	244.2	158.4	105.1	75.5	62.2	57.7	57.7
57.5°	13161.4	6389.0	328.6	294.6	195.4	128.8	79.9	56.3	45.9	42.9	42.9
60°	14391.5	6883.4	282.7	239.8	154.0	97.7	59.2	40.0	34.0	32.6	32.6
62.5°	15744.5	7173.5	241.3	192.4	119.9	72.5	42.9	26.6	25.2	25.2	23.7
65°	16572.0	6763.5	202.8	154.0	93.3	54.8	28.1	19.2	22.2	20.7	17.8
67.5°	15516.5	5295.0	165.8	119.9	72.5	41.4	17.8	13.3	23.7	19.2	14.8
70°	12847.5	3706.7	128.8	84.4	57.7	35.5	11.8	8.9	25.2	19.2	11.8
72.5°	9614.6	2481.0	102.1	56.3	42.9	31.1	10.4	4.4	22.2	16.3	10.4
75°	5253.6	999.2	81.4	35.5	26.6	22.2	7.4	3.0	14.8	11.8	7.4
77.5°	1382.6	263.5	59.2	23.7	14.8	8.9	4.4	1.5	7.4	5.9	3.0
80°	352.3	102.1	38.5	16.3	10.4	4.4	0.0	0.0	1.5	0.0	0.0
82.5°	188.0	42.9	23.7	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	142.1	28.1	13.3	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	54.8	8.9	4.4	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)