

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: P383685

Luminaire Tested: **GLEON-SA9C-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60227.3 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 501  
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

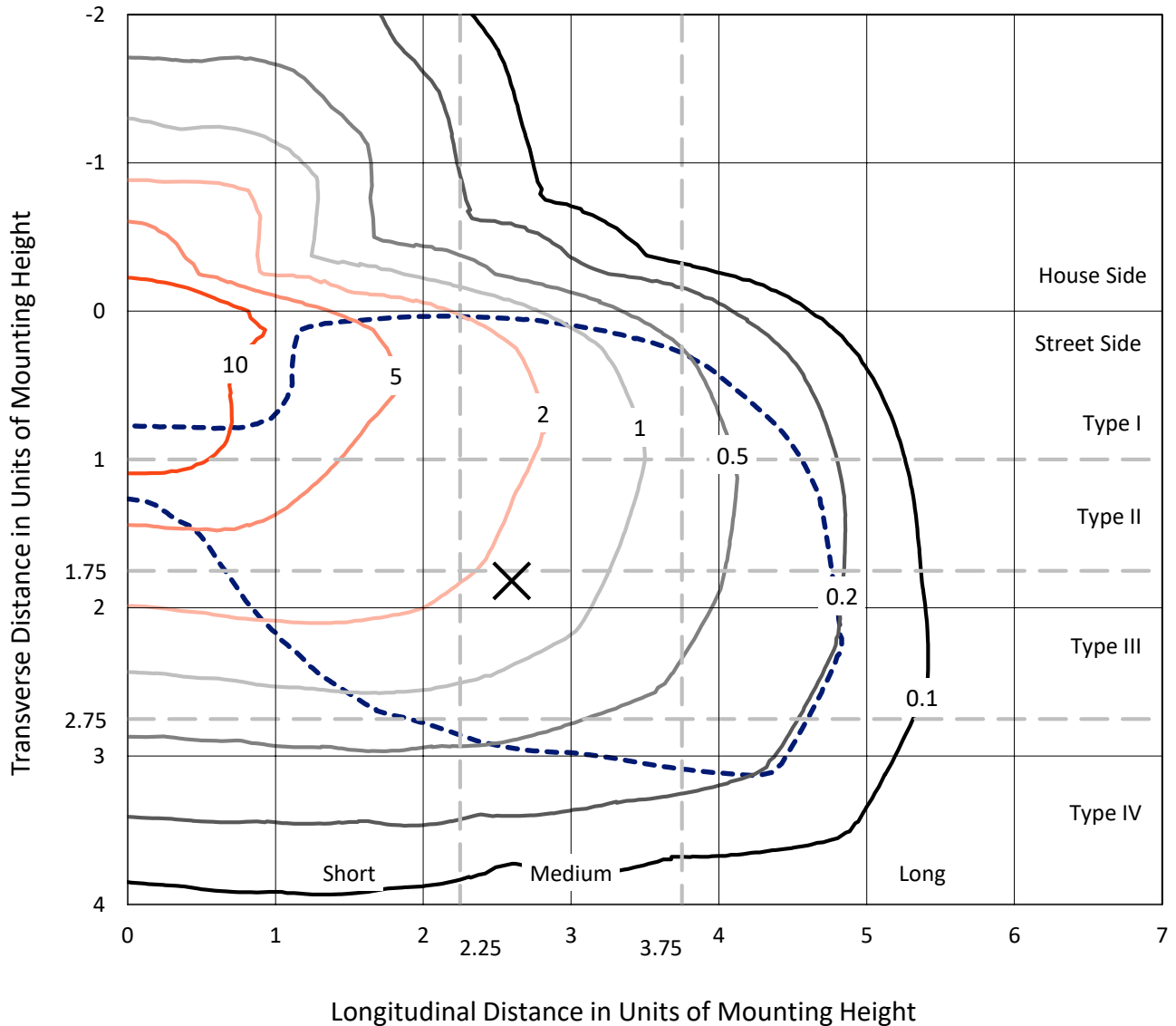




REPORT NUMBER: P383685  
 CATALOG NUMBER: GLEON-SA9C-735-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

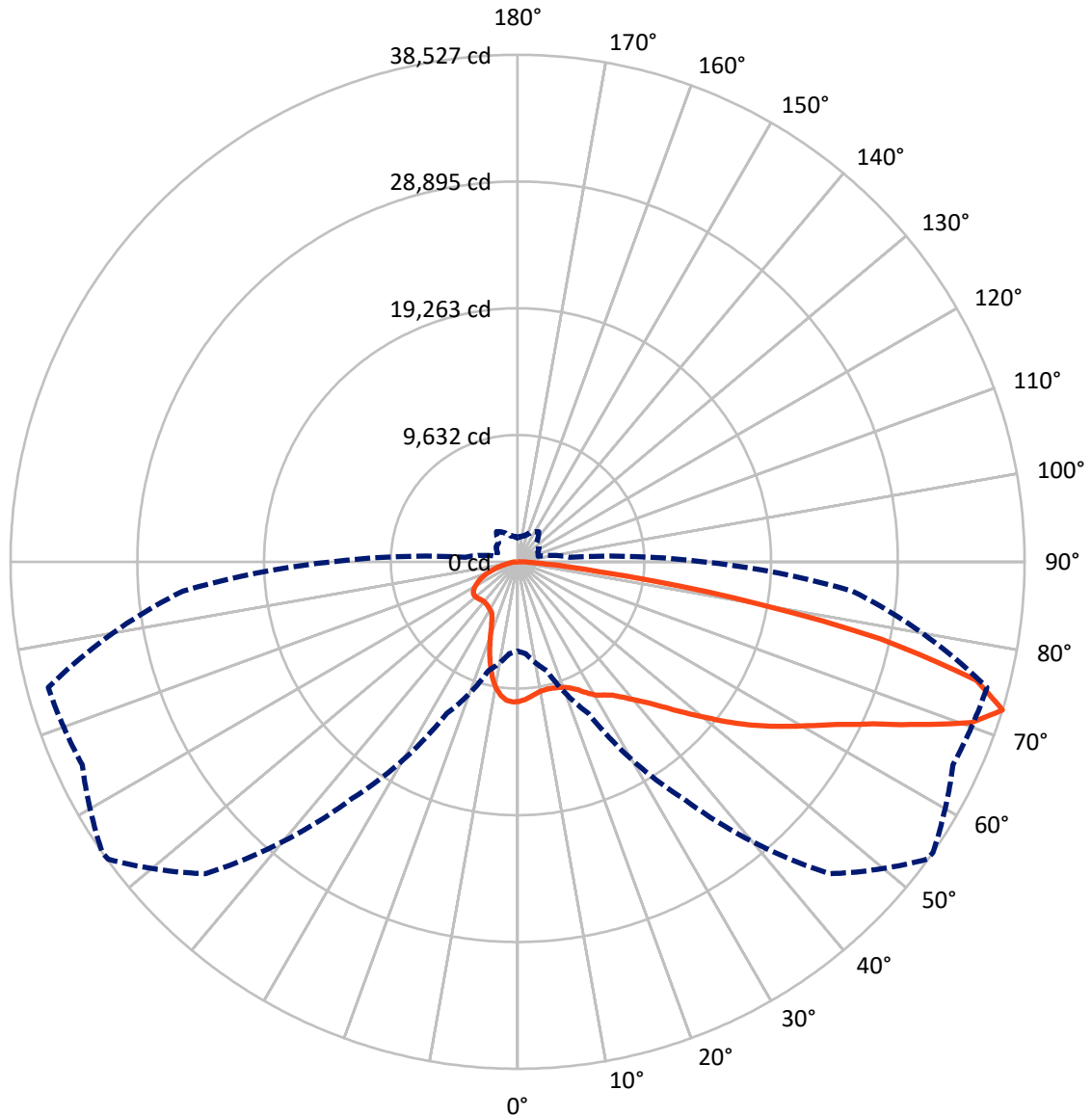
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P383685  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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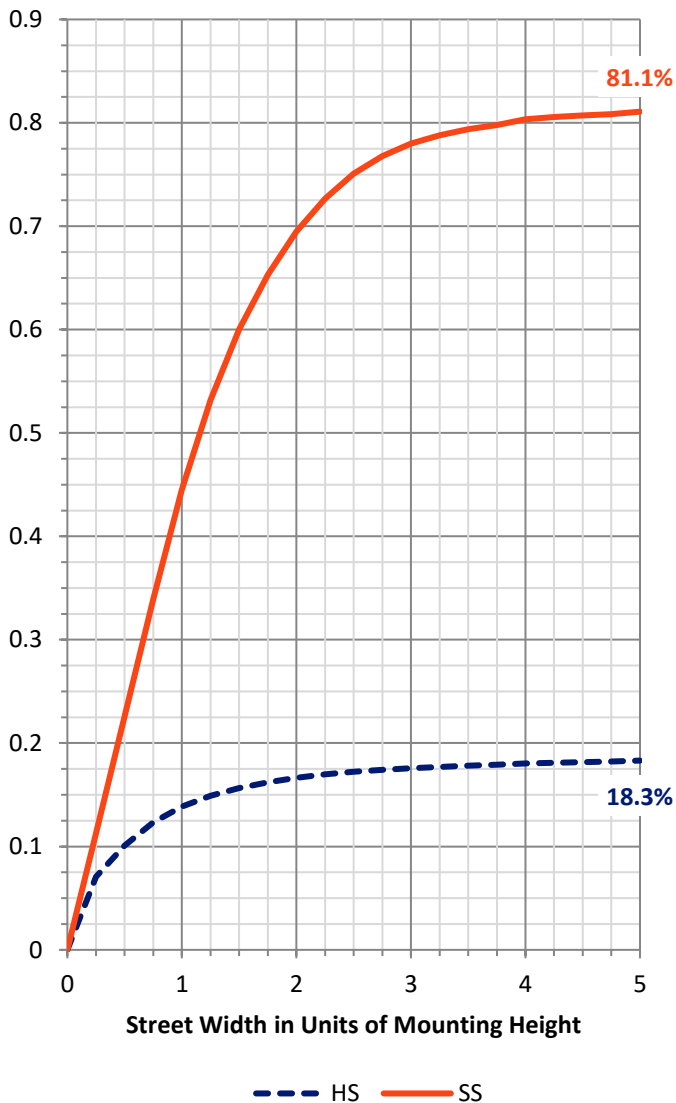
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11194.3	0.0	11194.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	49033.0	0.0	49033.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	60227.3	0.0	60227.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	961.2	1.6
10°-20°	2559.2	4.2
20°-30°	4219.4	7.0
30°-40°	6241.6	10.4
40°-50°	8712.0	14.5
50°-60°	11343.3	18.8
60°-70°	13940.5	23.1
70°-80°	10927.7	18.1
80°-90°	1322.4	2.2
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°	60227.3	100.0
0°-180°	60227.3	100.0

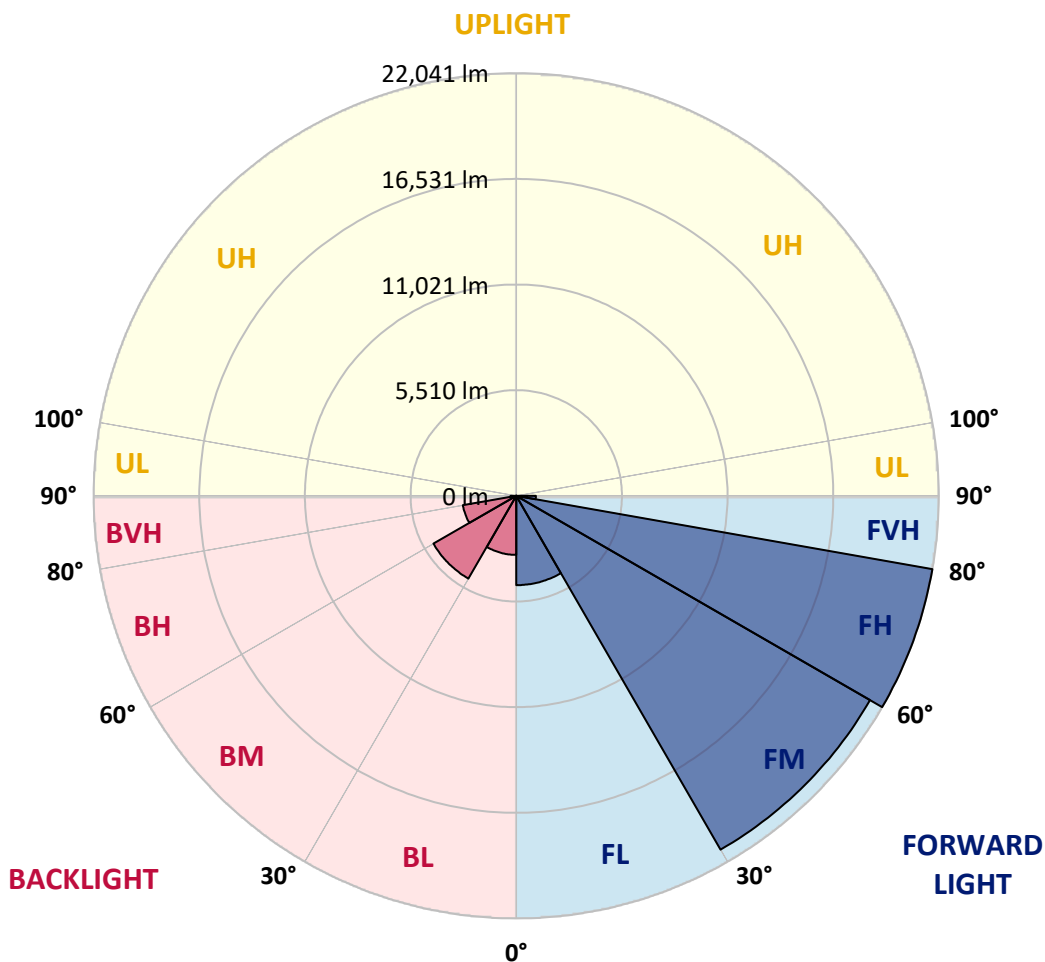


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4659.8	7.7			
FM (30°-60°)	21309.6	35.4			
FH (60°-80°)	22041.2	36.6			G5
FVH (80°-90°)	1022.4	1.7			G5
BL (0°-30°)	3080.0	5.1	B4/5000		
BM (30°-60°)	4987.2	8.3	B3/5000		
BH (60°-80°)	2827.1	4.7	B4/5000		G4/5000
BVH (80°-90°)	300.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8
2.5°	10277.0	10252.6	10283.1	10325.8	10372.6	10435.7	10472.3	10488.6	10551.6	10576.0	10628.9
5°	9801.0	9788.8	9839.7	9912.9	10016.6	10163.1	10281.0	10303.5	10470.2	10588.2	10696.0
7.5°	9455.1	9455.1	9514.2	9601.6	9717.5	9914.9	10081.7	10112.2	10395.0	10649.3	10848.6
10°	9180.5	9190.7	9259.9	9363.6	9499.9	9709.4	9931.1	9965.8	10374.6	10791.6	11109.0
12.5°	8997.4	9021.9	9084.9	9178.5	9347.3	9601.6	9882.3	9929.1	10417.3	10995.1	11422.3
15°	9113.4	9154.1	9160.2	9198.8	9292.4	9569.0	9910.8	9959.6	10508.9	11202.6	11778.3
17.5°	9622.0	9636.2	9573.1	9491.7	9447.0	9624.0	9996.3	10047.1	10618.7	11408.0	12120.0
20°	10395.0	10386.8	10250.6	10030.8	9803.0	9831.5	10136.6	10189.5	10767.2	11589.1	12461.8
22.5°	11371.4	11342.9	11133.4	10728.6	10340.1	10177.3	10382.8	10427.6	10991.1	11847.4	12828.0
25°	12555.3	12492.2	12215.7	11672.5	11100.9	10681.8	10753.0	10795.7	11316.4	12136.3	13163.6
27.5°	13804.3	13741.3	13389.4	12732.3	11971.5	11318.5	11263.6	11300.2	11686.7	12349.9	13411.8
30°	15110.4	15043.2	14721.8	13985.4	12895.0	11977.7	11739.6	11753.8	11947.1	12465.9	13615.2
32.5°	16422.4	16359.4	15999.3	15144.9	13897.9	12685.5	12083.4	12065.1	12103.7	12585.9	13845.0
35°	17752.8	17777.2	17356.1	16410.2	15008.6	13472.8	12490.3	12451.6	12366.1	12832.0	14170.5
37.5°	19176.8	19160.5	18615.3	17626.7	16170.2	14327.2	13074.1	13067.9	12773.0	13297.8	14681.1
40°	20128.8	20139.0	19807.4	18871.7	17343.9	15273.1	13822.7	13808.4	13421.9	13995.6	15350.4
42.5°	20501.1	20568.2	20653.6	20059.7	18572.6	16369.5	14715.7	14695.3	14327.2	14996.4	16137.7
45°	20527.5	20661.8	21190.7	21115.4	19817.6	17624.7	15856.9	15800.0	15535.5	16326.9	17077.4
47.5°	20299.7	20438.1	21316.8	21744.0	20930.3	18949.0	17191.3	17146.6	16918.8	17990.8	18094.6
50°	19801.3	19933.5	21056.4	22051.2	21845.7	20222.4	18729.2	18611.3	18489.3	19913.2	19258.2
52.5°	18867.6	19121.9	20708.6	22124.4	22392.9	21353.4	20346.5	20269.2	20336.3	21941.3	20423.8
55°	16656.4	16941.1	19811.5	22063.4	22797.8	22303.4	21963.7	21959.7	22307.5	24069.1	21674.9
57.5°	15417.5	15618.9	17984.7	21959.7	23277.8	23247.3	23564.6	23603.3	24280.7	26386.2	22984.9
60°	14717.7	14929.3	17059.2	21575.2	24022.4	24467.8	25198.2	25275.5	26286.5	28951.3	24561.5
62.5°	14081.0	14312.9	16485.5	20792.0	24899.1	26213.2	27155.1	27224.3	28410.2	31587.7	26085.1
65°	12992.7	13255.1	15645.3	20277.3	25696.6	28489.5	29643.0	29689.7	30849.2	34350.2	27250.7
67.5°	11454.8	11694.8	14060.7	19140.1	26286.5	31254.1	32950.6	32977.1	33268.0	36301.0	27846.8
70°	9658.6	9750.1	11802.7	16792.6	25588.7	33839.6	36575.6	36581.8	35473.1	37550.0	27749.1
72.5°	6786.2	7001.9	8568.2	12712.0	21990.1	33524.3	38457.4	38526.5	36498.3	36919.5	25531.8
75°	4162.1	4389.9	5374.5	7703.7	13950.9	26365.8	35532.1	36012.1	34576.0	32918.1	20857.1
77.5°	2782.8	2868.2	3507.0	4491.6	6320.4	15169.3	27317.8	28221.0	28723.5	24006.1	13338.6
80°	1552.1	1714.9	2325.1	2791.0	2811.3	6027.5	16379.7	16591.2	15981.0	9558.9	4115.3
82.5°	821.8	911.3	1552.1	1639.6	1533.8	2018.0	6104.8	6110.9	5105.9	2563.2	1222.6
85°	636.7	712.0	1063.9	1000.9	783.2	895.0	2013.9	2123.7	1737.2	1049.7	398.7
87.5°	317.4	394.6	722.1	634.7	307.1	256.3	720.1	768.9	685.5	410.9	144.4
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°	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8	10622.8
2.5°	10649.3	10667.5	10690.0	10665.6	10657.4	10624.9	10569.9	10557.7	10529.2	10531.2	10547.5
5°	10742.8	10773.3	10761.1	10667.5	10555.6	10399.1	10236.3	10098.0	10006.4	10000.3	9994.2
7.5°	10921.8	10942.1	10846.6	10580.1	10266.8	9904.7	9563.0	9264.0	9082.9	9038.2	9028.0
10°	11202.6	11198.5	10936.1	10399.1	9774.5	9127.7	8578.4	8163.4	7921.3	7850.2	7831.8
12.5°	11515.9	11469.0	10966.6	10069.5	9078.9	8181.7	7486.0	7024.2	6772.0	6690.7	6670.3
15°	11839.3	11723.3	10891.3	9577.2	8224.4	7162.6	6432.2	6005.0	5868.7	5824.0	5815.9
17.5°	12140.4	11916.5	10675.7	8910.0	7250.0	6147.5	5577.9	5407.0	5439.6	5498.6	5500.6
20°	12435.3	12046.8	10329.8	8067.8	6222.7	5311.4	5118.1	5244.2	5398.9	5518.9	5535.2
22.5°	12726.2	12138.3	9884.4	7095.4	5303.3	4841.5	4977.8	5207.6	5384.6	5514.9	5537.2
25°	12970.3	12160.7	9270.0	6057.9	4664.5	4664.5	4910.7	5128.4	5303.3	5431.4	5453.8
27.5°	13059.8	12010.2	8403.5	5097.8	4343.1	4583.1	4817.1	4998.1	5146.6	5282.9	5307.3
30°	13094.4	11731.4	7402.6	4326.9	4210.9	4495.6	4691.0	4845.5	4985.9	5114.1	5136.5
32.5°	13100.5	11395.8	6340.8	3889.5	4119.3	4404.2	4534.3	4670.6	4821.1	4872.0	4880.1
35°	13139.2	10999.2	5221.9	3665.7	4033.9	4318.7	4422.4	4520.1	4276.0	4294.2	4310.6
37.5°	13251.1	10606.5	4286.1	3539.6	3979.0	4273.9	4398.0	4044.0	3852.9	3808.1	3802.0
40°	13460.6	10187.5	3592.5	3437.9	3958.6	4296.3	4241.4	3775.6	3446.0	3199.9	3163.3
42.5°	13751.5	9735.9	3149.0	3370.7	3972.9	4404.2	4023.7	3517.2	2970.0	2811.3	2791.0
45°	14078.9	9261.9	2908.9	3323.9	4021.7	4487.5	3979.0	3173.4	2748.3	2628.3	2618.1
47.5°	14396.3	8682.1	2784.9	3303.6	4088.8	4420.4	3789.8	3067.7	2642.5	2579.5	2585.5
50°	14760.5	8159.3	2709.6	3281.2	4147.8	4377.7	3576.2	3012.7	2601.8	2679.1	2760.5
52.5°	15067.6	7618.2	2642.5	3236.5	4170.2	4302.4	3521.2	3022.9	2601.8	2750.3	2827.6
55°	15431.7	7209.3	2565.2	3142.9	4127.5	4088.8	3482.6	3083.9	2632.3	2538.7	2546.9
57.5°	15901.7	7075.1	2479.8	2996.4	3985.1	3777.6	3464.3	3142.9	2614.0	2555.0	2575.4
60°	16552.6	7217.4	2445.1	2805.3	3763.4	3533.5	3466.4	3112.4	2485.8	2384.1	2386.2
62.5°	17173.1	7376.2	2443.2	2685.2	3490.8	3315.8	3419.5	3012.7	2420.7	2361.8	2384.1
65°	17376.5	7215.5	2345.5	2550.9	3183.6	3055.5	3334.1	2906.9	2371.9	2282.4	2278.4
67.5°	17103.9	6717.1	2148.1	2333.2	2831.6	2752.4	3222.2	2780.8	2294.6	2221.4	2209.2
70°	16294.3	5604.4	1904.1	2046.4	2430.9	2410.6	3045.2	2634.3	2190.9	2127.8	2074.9
72.5°	14115.6	3993.2	1605.1	1702.7	1979.4	2044.4	2801.2	2443.2	2044.4	1908.1	1826.8
75°	11593.1	2955.7	1318.2	1338.5	1503.3	1680.3	2465.5	2219.3	1871.5	1639.6	1576.6
77.5°	7099.5	1808.4	1049.7	1057.8	1078.2	1340.6	2030.2	1969.1	1651.8	1367.0	1322.2
80°	2298.7	986.6	758.7	797.4	736.4	982.5	1570.4	1676.2	1417.9	1143.3	1094.4
82.5°	874.7	575.7	512.6	539.1	510.6	659.1	1145.2	1342.6	1161.5	939.8	764.9
85°	423.1	325.5	303.1	339.7	315.3	337.7	732.3	988.7	880.9	612.3	569.5
87.5°	150.5	144.4	116.0	156.6	134.2	120.0	223.8	498.4	581.8	421.1	376.3
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)