

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: P383500

Luminaire Tested: **GLEON-SA8A-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28818.4 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

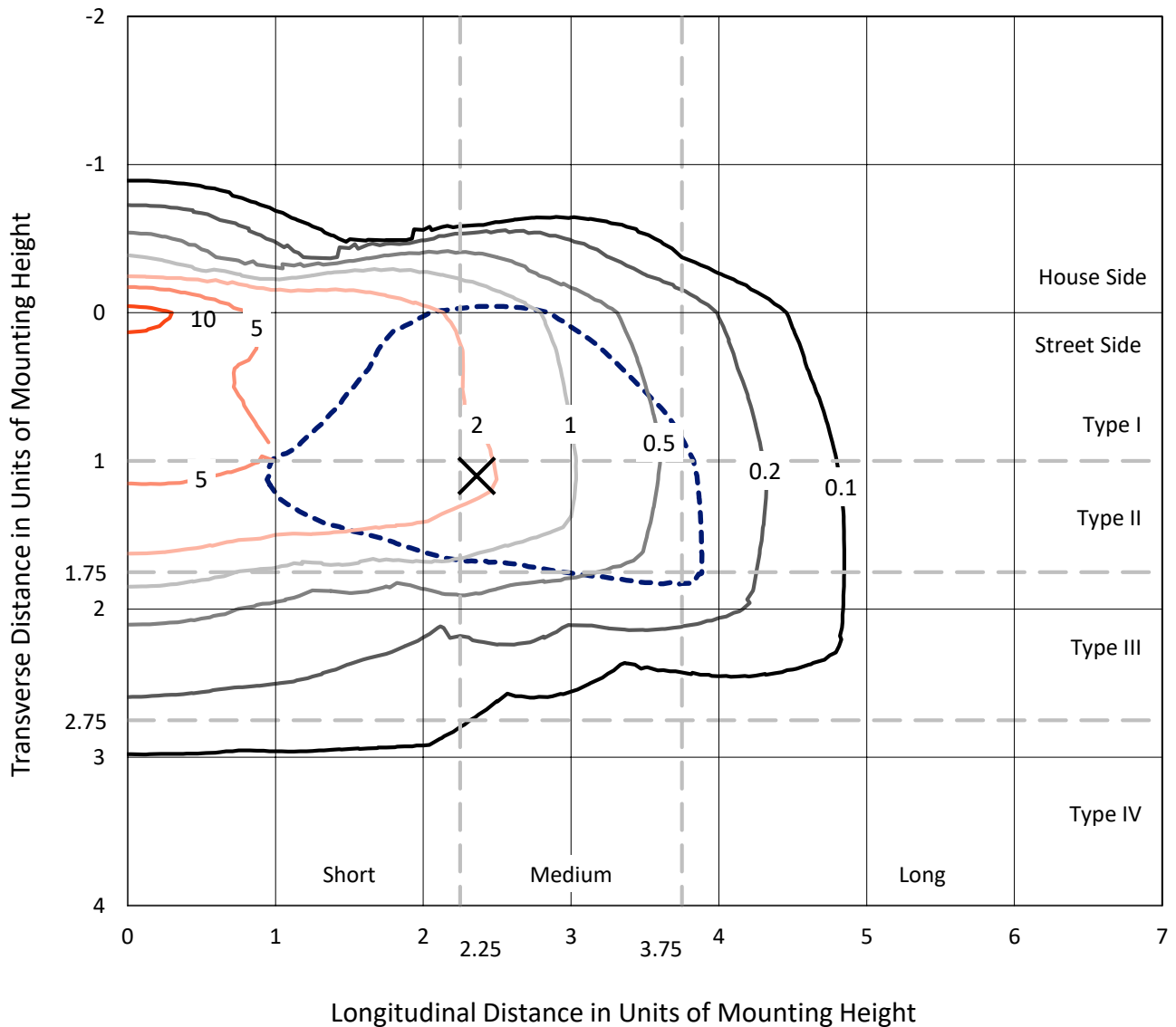
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

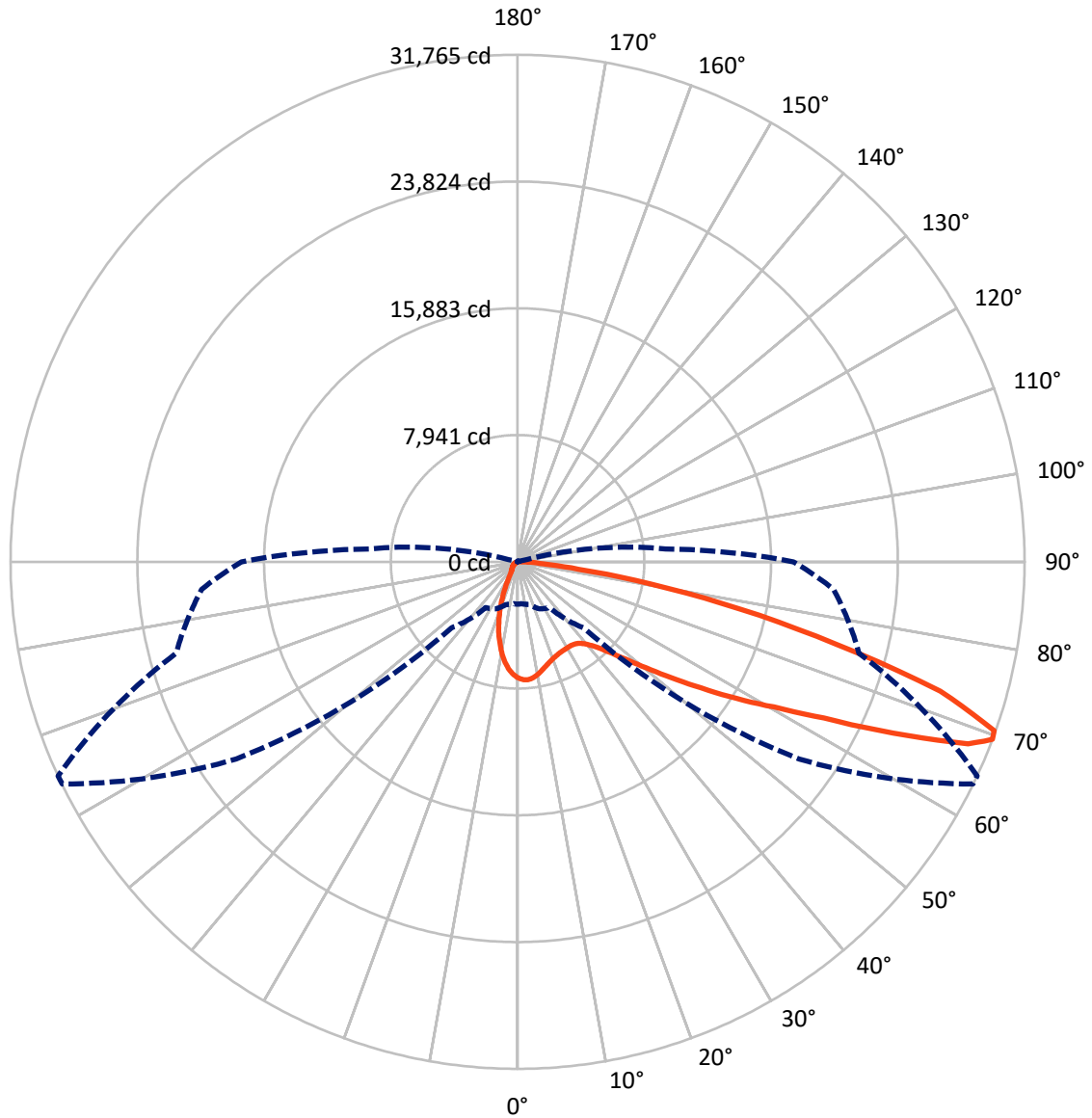
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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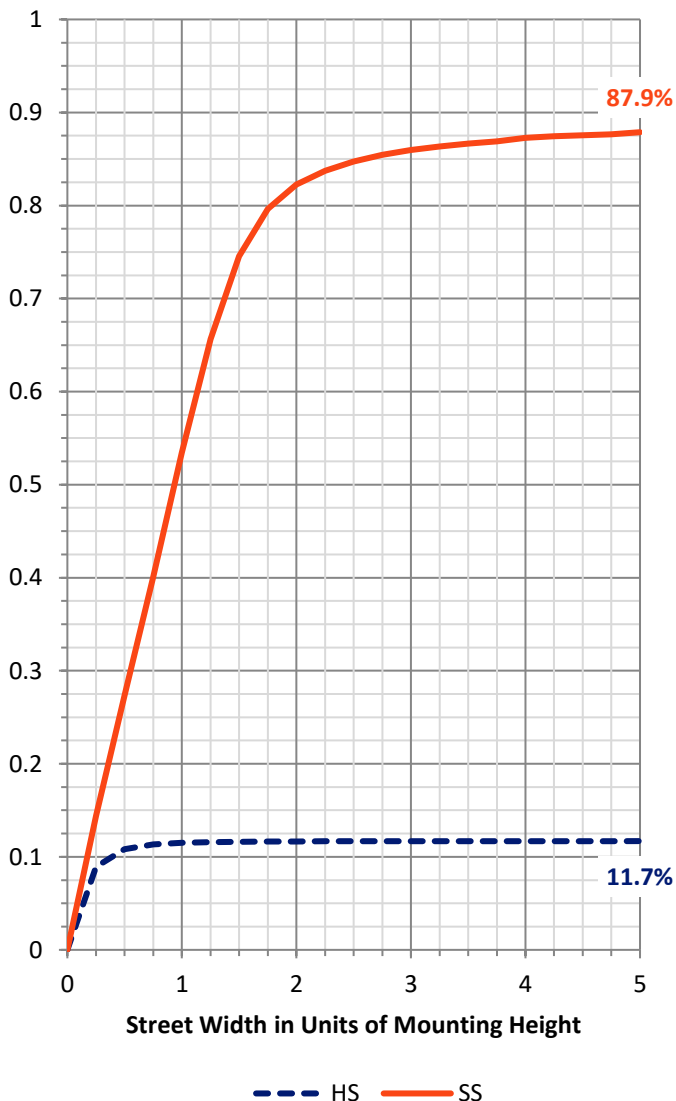
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3397.0	0.0	3397.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	25421.4	0.0	25421.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	28818.4	0.0	28818.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.0	2.1
10°-20°	1333.1	4.6
20°-30°	1846.3	6.4
30°-40°	2574.4	8.9
40°-50°	4001.4	13.9
50°-60°	6423.8	22.3
60°-70°	7266.4	25.2
70°-80°	4267.6	14.8
80°-90°	496.4	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°	28818.4	100.0
0°-180°	28818.4	100.0

Coefficient of Utilization

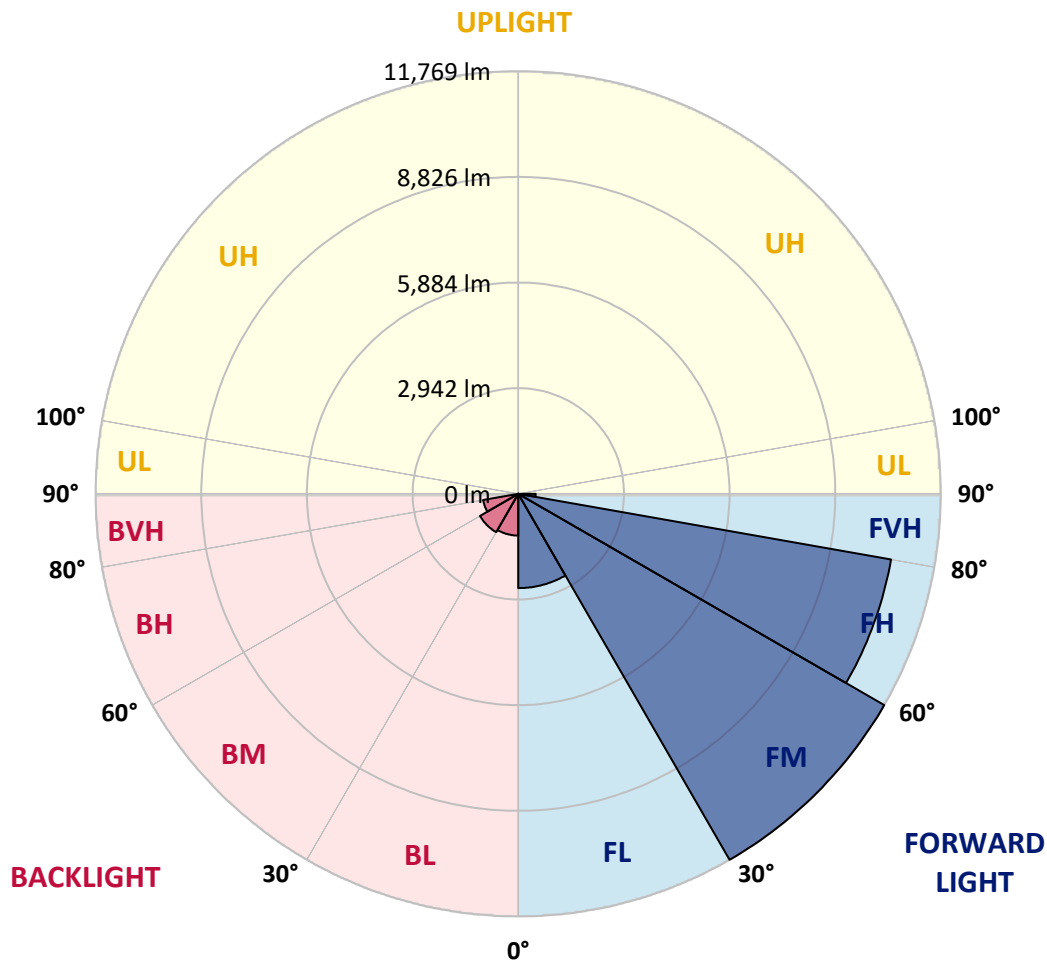


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2626.0	9.1			
FM (30°-60°)	11768.6	40.8			
FH (60°-80°)	10541.5	36.6			G4/12000
FVH (80°-90°)	485.3	1.7			G3/500
BL (0°-30°)	1162.3	4.0	B3/2500		
BM (30°-60°)	1231.0	4.3	B2/2500		
BH (60°-80°)	992.5	3.4	B2/1000		G2/1000
BVH (80°-90°)	11.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5
2.5°	7347.1	7328.8	7343.4	7375.2	7391.0	7391.0	7403.2	7388.6	7393.4	7358.0	7306.9
5°	6887.4	6859.3	6899.5	6988.6	7098.3	7192.2	7331.2	7404.4	7411.7	7412.9	7353.2
7.5°	6392.3	6366.7	6426.4	6531.3	6672.8	6847.2	7089.8	7301.9	7314.1	7428.8	7384.8
10°	5989.9	5971.6	6041.1	6153.2	6319.1	6514.2	6811.8	7106.9	7142.2	7395.8	7380.0
12.5°	5670.3	5655.7	5721.6	5850.9	6020.3	6236.2	6547.1	6889.8	6937.3	7321.5	7355.6
15°	5437.4	5435.0	5489.9	5614.3	5802.1	6003.3	6321.6	6688.6	6743.5	7241.0	7352.0
17.5°	5315.5	5319.1	5359.4	5465.5	5626.5	5826.5	6131.3	6519.1	6578.9	7169.0	7370.2
20°	5303.3	5306.9	5328.9	5388.6	5519.1	5695.9	5976.4	6376.4	6438.6	7115.3	7399.5
22.5°	5410.6	5408.2	5414.2	5408.2	5481.3	5615.5	5874.0	6266.7	6338.6	7080.0	7422.7
25°	5616.7	5613.0	5610.6	5565.5	5516.7	5588.6	5831.3	6204.5	6272.8	7054.4	7436.1
27.5°	5903.3	5900.8	5897.2	5822.8	5676.5	5631.3	5836.2	6181.3	6238.6	7033.7	7433.7
30°	6280.1	6297.2	6292.2	6188.6	5960.6	5761.8	5887.4	6169.1	6219.1	6993.4	7408.0
32.5°	6722.7	6756.9	6783.7	6672.8	6387.3	6020.3	6005.7	6182.5	6219.1	6962.9	7361.7
35°	7182.4	7226.4	7325.1	7286.1	6910.5	6409.3	6209.3	6263.0	6293.5	6980.0	7339.8
37.5°	7634.9	7687.3	7901.9	8015.3	7595.8	6923.9	6526.4	6461.8	6477.6	7083.7	7364.2
40°	8160.5	8239.7	8565.3	8748.2	8414.1	7612.9	7000.8	6803.2	6809.3	7311.7	7477.5
42.5°	8850.6	8932.3	9284.7	9571.3	9336.0	8483.6	7644.7	7325.1	7319.1	7738.6	7744.6
45°	9692.0	9777.4	10142.0	10460.3	10354.2	9515.2	8469.0	8087.2	8080.0	8411.7	8250.7
47.5°	10645.6	10729.8	11055.3	11383.4	11498.0	10720.1	9518.9	9127.5	9110.3	9347.0	9032.4
50°	11463.9	11518.8	11818.7	12260.2	12777.2	12200.4	10824.9	10448.1	10429.8	10589.6	10179.9
52.5°	11761.4	11793.1	12098.0	12716.3	14006.4	14205.2	12540.7	12055.3	12041.9	12111.4	11707.8
55°	11159.0	11216.3	11590.7	12507.7	14672.2	16470.9	14706.3	14045.4	13944.2	13794.3	13305.2
57.5°	9517.7	9609.1	10011.5	11230.9	14361.3	18268.3	17889.1	16296.5	16147.7	15230.7	14604.0
60°	7131.3	7243.4	7577.6	8893.3	12701.7	18908.6	21366.9	18804.9	18469.5	16374.6	15797.7
62.5°	4893.6	4949.7	5176.5	6033.7	9354.2	17859.8	24276.5	22164.4	21552.3	17618.4	17089.1
65°	3737.6	3757.0	3849.7	4144.8	5570.4	14507.5	25433.7	26597.1	25856.9	19106.0	18429.3
67.5°	3012.0	2996.1	3124.2	3546.1	3730.3	8850.6	24083.8	30790.6	30444.4	21095.0	19778.0
69°	2655.9	2634.0	2764.5	3254.6	3503.5	5850.9	21530.3	31743.0	31765.0	22144.8	19870.7
70°	2390.1	2404.7	2534.0	3081.5	3426.6	4592.3	19091.4	31500.4	31673.5	22537.6	19314.6
72.5°	1596.2	1635.2	1895.0	2558.4	3294.9	3475.4	11527.2	27031.2	27697.0	21653.5	16570.8
75°	900.0	929.2	1237.7	1929.1	3104.7	3309.5	6088.6	19914.5	20558.4	18107.3	12778.4
77.5°	441.5	457.3	700.0	1245.0	2596.1	3153.5	3453.4	13527.2	14262.5	11818.7	7227.6
80°	186.6	195.1	350.0	768.2	1856.0	3009.6	2564.5	8325.1	8416.5	4630.2	1925.5
82.5°	71.9	74.4	147.6	479.3	1179.2	2346.2	2145.0	3947.3	3852.2	871.9	439.0
85°	8.6	9.8	53.7	287.8	656.1	1207.2	1742.6	1701.1	1574.3	173.2	225.6
87.5°	0.0	0.0	3.6	87.8	195.1	565.8	906.0	706.0	636.5	56.1	117.1
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°	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5	7282.5
2.5°	7264.1	7252.0	7186.1	7091.0	7000.8	6888.6	6781.3	6716.6	6665.4	6631.3	6671.6
5°	7283.7	7230.0	7030.0	6773.9	6522.8	6239.9	5976.4	5753.2	5665.5	5568.0	5611.8
7.5°	7277.5	7176.4	6816.6	6360.5	5899.6	5422.8	4971.7	4624.1	4443.6	4266.8	4311.9
10°	7247.1	7076.4	6531.3	5855.7	5165.5	4480.2	3840.0	3353.5	3081.5	2835.2	2870.6
12.5°	7180.0	6942.3	6194.7	5277.7	4354.6	3451.0	2701.0	2077.9	1743.8	1596.2	1614.6
15°	7139.8	6811.8	5838.7	4692.4	3488.8	2403.5	1651.1	1228.0	1075.6	1026.8	1032.9
17.5°	7120.3	6686.2	5470.3	4022.9	2603.5	1530.3	1067.0	941.4	908.4	900.0	902.4
20°	7100.7	6559.3	5091.1	3360.7	1793.8	1029.2	876.8	840.2	828.0	817.1	819.5
22.5°	7067.8	6437.4	4683.8	2690.0	1209.7	835.3	790.2	754.8	729.2	715.8	718.2
25°	7027.6	6309.4	4268.0	2003.6	882.8	745.1	702.4	652.4	621.9	597.5	598.7
27.5°	6962.9	6152.0	3838.8	1458.4	741.4	667.0	609.7	554.8	503.6	475.6	475.6
30°	6872.7	5974.0	3362.0	1043.8	664.6	590.2	520.7	452.5	397.5	372.0	369.5
32.5°	6772.7	5788.6	2880.3	791.4	603.6	518.2	439.0	367.0	318.3	297.5	296.3
35°	6687.4	5588.6	2399.9	663.4	542.6	448.7	362.2	301.2	262.1	245.1	243.9
37.5°	6632.5	5388.6	1931.6	592.7	487.8	384.1	303.7	248.7	220.7	207.3	206.1
40°	6624.0	5239.9	1503.5	539.0	436.5	326.8	253.7	211.0	185.4	170.8	169.5
42.5°	6734.9	5154.5	1153.6	493.9	384.1	276.9	215.8	180.4	153.6	139.0	137.8
45°	7026.4	5181.4	887.8	453.7	331.7	234.1	183.0	150.0	125.6	114.6	112.2
47.5°	7558.0	5366.7	706.0	413.4	281.7	198.8	156.1	124.4	103.7	92.7	91.5
50°	8504.3	5802.1	590.2	369.5	235.3	169.5	129.3	101.3	84.1	74.4	73.1
52.5°	9760.3	6577.7	526.8	326.8	195.1	143.9	106.1	80.5	65.9	58.5	57.3
55°	11145.6	7516.6	485.3	280.5	159.8	119.5	84.1	63.4	51.2	45.1	42.7
57.5°	12497.9	8329.9	446.3	235.3	132.9	97.5	67.1	50.0	40.2	34.2	32.9
60°	13740.6	9077.5	401.2	189.0	108.5	76.9	52.4	39.0	31.7	25.6	25.6
62.5°	15070.9	9655.5	339.0	147.6	89.1	58.5	42.7	35.4	25.6	22.0	20.8
65°	16480.7	10084.7	265.9	114.6	69.5	43.9	35.4	36.6	20.8	15.8	14.6
67.5°	17522.0	9999.3	196.4	90.3	53.7	34.2	34.2	39.0	18.3	12.2	11.0
69°	17292.8	9305.5	164.6	78.1	46.3	29.3	31.7	39.0	17.0	11.0	9.8
70°	16628.2	8537.3	145.1	69.5	41.5	26.8	30.5	37.8	15.8	11.0	9.8
72.5°	13847.8	6430.1	113.4	52.4	32.9	22.0	25.6	32.9	15.8	11.0	8.6
75°	10416.4	4115.6	86.5	37.8	24.4	17.0	19.5	24.4	15.8	9.8	8.6
77.5°	5667.9	1484.0	62.2	25.6	17.0	13.4	13.4	18.3	14.6	7.4	4.8
80°	1457.2	373.2	39.0	17.0	13.4	9.8	8.6	12.2	8.6	1.2	0.0
82.5°	359.8	84.1	20.8	12.2	9.8	3.6	3.6	6.1	3.6	0.0	0.0
85°	197.6	41.5	13.4	8.6	4.8	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	101.3	12.2	3.6	2.4	1.2	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)