

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: P323320

Luminaire Tested: **GLEON-SA6B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323320
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-SA6B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 20812 lumens
Efficiency: N/A
Efficacy: 83.6 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): 249
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

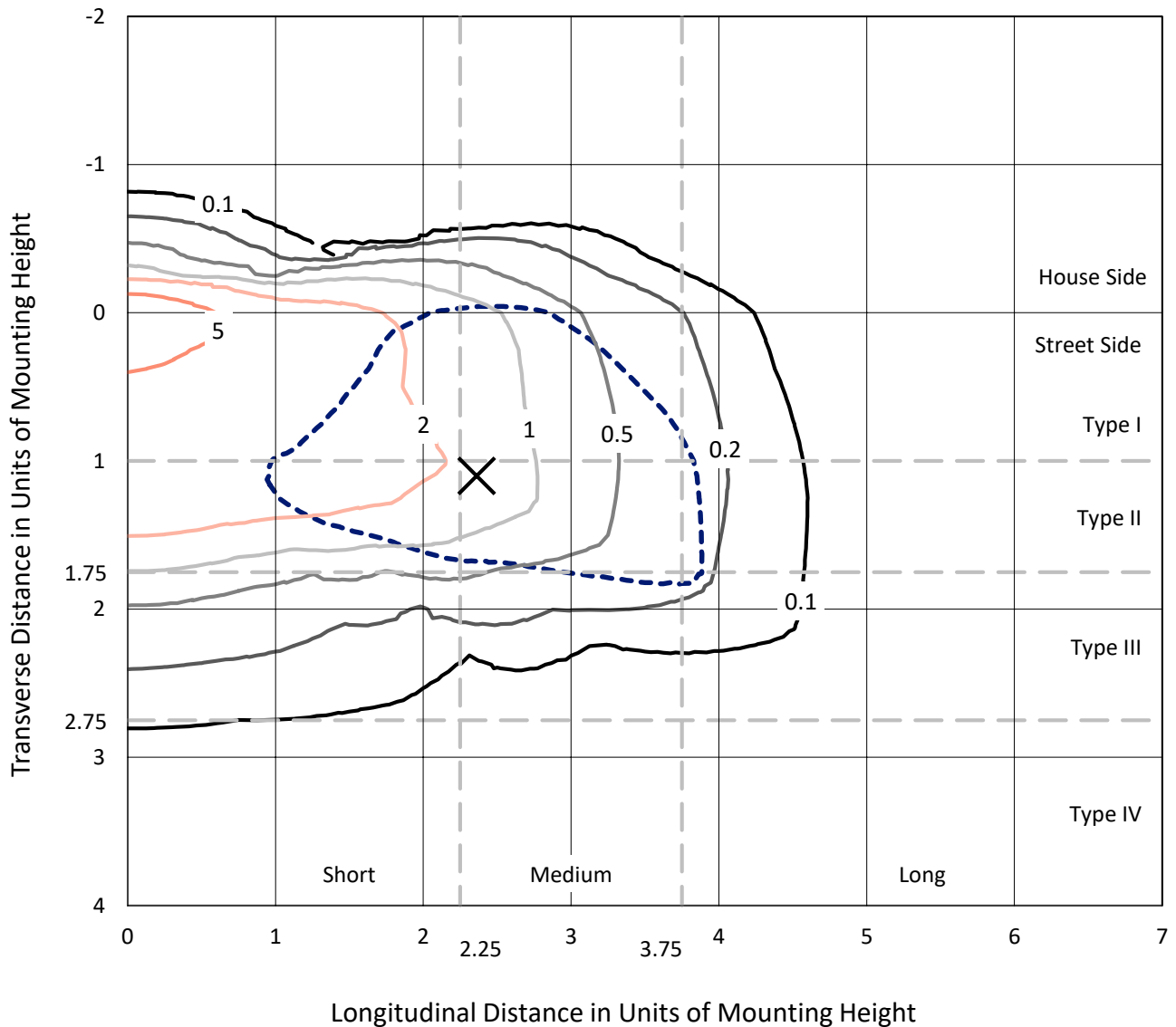




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Iso-Footcandle Lines of Horizontal Illumination

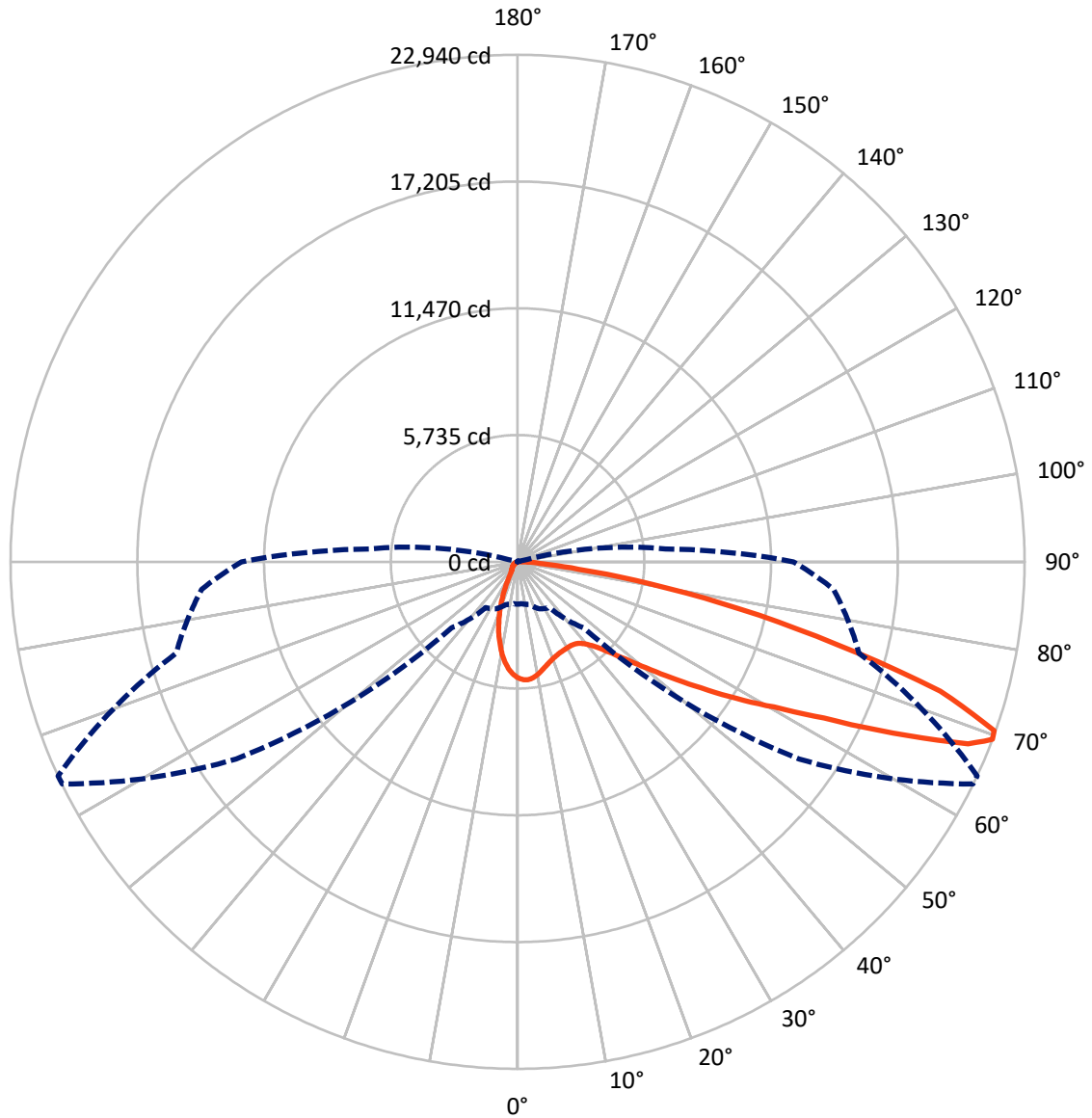
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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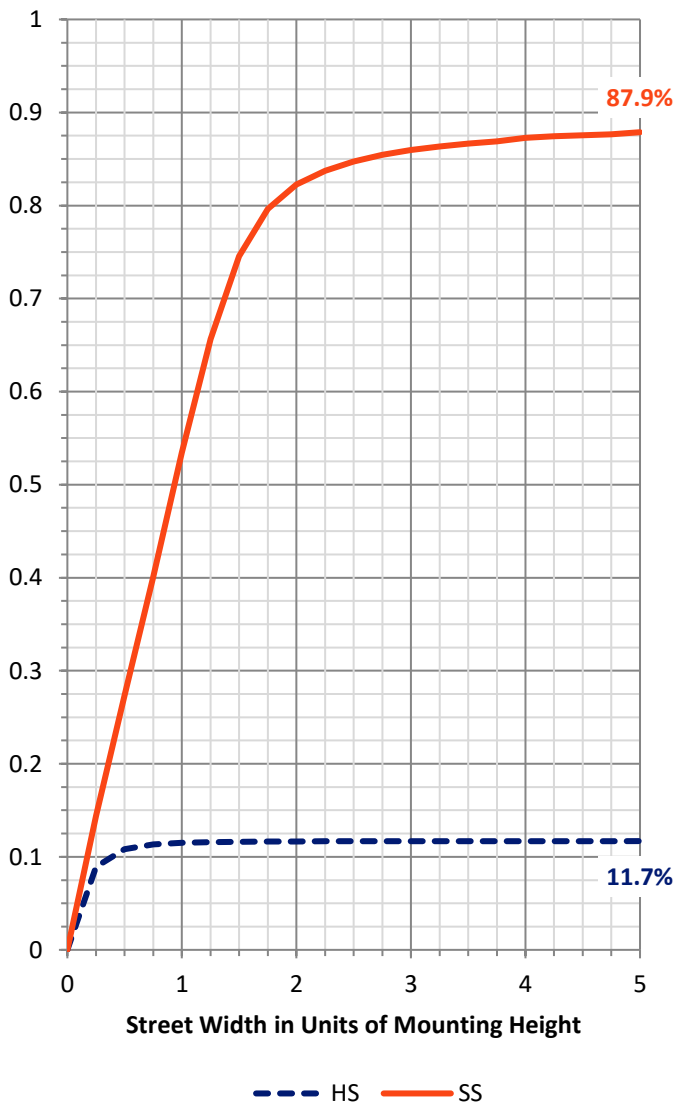
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2453.2	0.0	2453.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18358.8	0.0	18358.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	20812.0	0.0	20812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.8	2.1
10°-20°	962.7	4.6
20°-30°	1333.4	6.4
30°-40°	1859.1	8.9
40°-50°	2889.7	13.9
50°-60°	4639.1	22.3
60°-70°	5247.6	25.2
70°-80°	3082.0	14.8
80°-90°	358.5	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°	20812.0	100.0
0°-180°	20812.0	100.0

Coefficient of Utilization

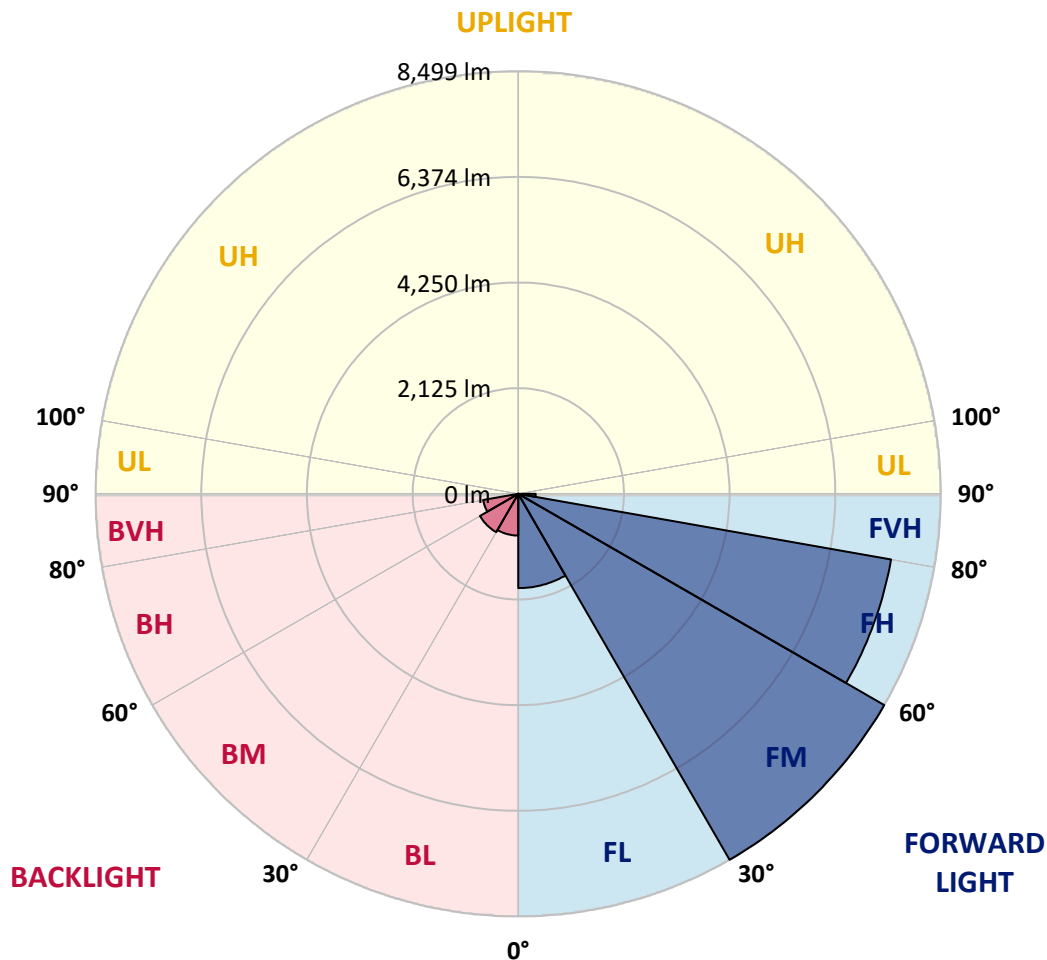


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1896.5	9.1			
FM (30°-60°)	8499.0	40.8			
FH (60°-80°)	7612.8	36.6			G4/12000
FVH (80°-90°)	350.4	1.7			G3/500
BL (0°-30°)	839.4	4.0	B2/1000		
BM (30°-60°)	889.0	4.3	B1/1000		
BH (60°-80°)	716.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	8.1	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°	64°	65°	75°	85°
0°	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2
2.5°	5305.9	5292.7	5303.3	5326.2	5337.6	5337.6	5346.4	5335.8	5339.4	5313.8	5276.8
5°	4973.9	4953.6	4982.7	5047.0	5126.3	5194.1	5294.5	5347.3	5352.6	5353.5	5310.3
7.5°	4616.4	4597.9	4641.0	4716.7	4818.9	4944.8	5120.1	5273.3	5282.1	5364.9	5333.2
10°	4325.7	4312.5	4362.7	4443.7	4563.5	4704.4	4919.3	5132.4	5158.0	5341.1	5329.7
12.5°	4095.0	4084.4	4132.0	4225.3	4347.8	4503.6	4728.2	4975.7	5010.0	5287.4	5312.1
15°	3926.8	3925.0	3964.7	4054.5	4190.1	4335.4	4565.3	4830.4	4870.0	5229.3	5309.4
17.5°	3838.7	3841.4	3870.4	3947.1	4063.3	4207.7	4427.9	4707.9	4751.1	5177.3	5322.6
20°	3829.9	3832.6	3848.4	3891.6	3985.8	4113.5	4316.1	4604.9	4649.8	5138.6	5343.8
22.5°	3907.4	3905.7	3910.1	3905.7	3958.5	4055.4	4242.1	4525.6	4577.6	5113.0	5360.5
25°	4056.3	4053.6	4051.9	4019.3	3984.1	4036.0	4211.3	4480.7	4530.1	5094.5	5370.2
27.5°	4263.2	4261.5	4258.8	4205.1	4099.4	4066.8	4214.8	4464.0	4505.4	5079.6	5368.4
30°	4535.3	4547.7	4544.1	4469.3	4304.6	4161.1	4251.8	4455.2	4491.3	5050.5	5349.9
32.5°	4855.0	4879.7	4899.0	4818.9	4612.8	4347.8	4337.2	4464.9	4491.3	5028.5	5316.5
35°	5187.0	5218.7	5290.1	5261.9	4990.6	4628.7	4484.3	4523.0	4545.0	5040.8	5300.6
37.5°	5513.7	5551.6	5706.6	5788.5	5485.6	5000.3	4713.2	4666.6	4678.0	5115.7	5318.2
40°	5893.3	5950.5	6185.7	6317.8	6076.5	5497.9	5055.8	4913.1	4917.5	5280.4	5400.1
42.5°	6391.7	6450.7	6705.3	6912.2	6742.2	6126.7	5520.8	5290.1	5285.6	5588.6	5593.0
45°	6999.4	7061.0	7324.3	7554.2	7477.6	6871.7	6116.1	5840.5	5835.2	6074.7	5958.5
47.5°	7688.1	7748.8	7984.0	8220.8	8303.6	7741.8	6874.3	6591.6	6579.3	6750.2	6523.0
50°	8279.0	8318.6	8535.2	8854.0	9227.4	8810.9	7817.5	7545.4	7532.2	7647.5	7351.6
52.5°	8493.8	8516.7	8736.9	9183.4	10115.1	10258.7	9056.6	8706.1	8696.4	8746.6	8455.1
55°	8058.8	8100.2	8370.6	9032.8	10596.0	11894.9	10620.6	10143.3	10070.2	9961.9	9608.7
57.5°	6873.5	6939.5	7230.1	8110.8	10371.4	13193.0	12919.1	11769.0	11661.5	10999.3	10546.6
60°	5150.0	5231.0	5472.3	6422.6	9172.8	13655.3	15430.7	13580.5	13338.3	11825.3	11408.8
62.5°	3534.0	3574.5	3738.4	4357.4	6755.4	12898.0	17531.9	16006.7	15564.6	12723.6	12341.4
65°	2699.2	2713.3	2780.2	2993.3	4022.8	10477.1	18367.7	19207.8	18673.3	13798.0	13309.2
67.5°	2175.2	2163.8	2256.2	2560.9	2693.9	6391.7	17392.8	22236.4	21986.3	15234.3	14283.2
69°	1918.1	1902.2	1996.4	2350.4	2530.1	4225.3	15548.7	22924.1	22940.0	15992.6	14350.2
70°	1726.1	1736.6	1830.0	2225.4	2474.6	3316.5	13787.4	22748.9	22873.9	16276.1	13948.6
72.5°	1152.8	1180.9	1368.5	1847.6	2379.5	2509.8	8324.8	19521.3	20002.2	15637.7	11967.1
75°	649.9	671.1	893.9	1393.2	2242.1	2390.1	4397.1	14381.9	14846.8	13076.7	9228.3
77.5°	318.8	330.2	505.5	899.1	1874.9	2277.4	2494.0	9769.0	10300.1	8535.2	5219.6
80°	134.7	140.9	252.7	554.8	1340.3	2173.4	1852.0	6012.2	6078.2	3343.8	1390.5
82.5°	52.0	53.7	106.6	346.1	851.6	1694.4	1549.1	2850.7	2782.0	629.7	317.0
85°	6.2	7.0	38.7	207.8	473.8	871.8	1258.4	1228.5	1136.9	125.1	162.9
87.5°	0.0	0.0	2.6	63.4	140.9	408.6	654.3	509.9	459.7	40.5	84.5
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°	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2	5259.2
2.5°	5246.0	5237.2	5189.7	5121.0	5055.8	4974.8	4897.3	4850.6	4813.6	4789.0	4818.0
5°	5260.1	5221.4	5076.9	4892.0	4710.6	4506.3	4316.1	4154.9	4091.5	4021.0	4052.7
7.5°	5255.7	5182.6	4922.8	4593.5	4260.6	3916.2	3590.4	3339.4	3209.1	3081.4	3114.0
10°	5233.7	5110.4	4716.7	4228.9	3730.4	3235.5	2773.2	2421.8	2225.4	2047.5	2073.0
12.5°	5185.3	5013.5	4473.7	3811.4	3144.8	2492.2	1950.6	1500.6	1259.3	1152.8	1166.0
15°	5156.2	4919.3	4216.5	3388.7	2519.5	1735.8	1192.4	886.8	776.7	741.5	745.9
17.5°	5142.1	4828.6	3950.6	2905.3	1880.2	1105.2	770.6	679.9	656.1	649.9	651.7
20°	5128.0	4737.0	3676.7	2427.1	1295.4	743.3	633.2	606.8	598.0	590.0	591.8
22.5°	5104.2	4648.9	3382.6	1942.7	873.6	603.2	570.7	545.1	526.6	516.9	518.7
25°	5075.2	4556.5	3082.3	1446.9	637.6	538.1	507.3	471.1	449.1	431.5	432.4
27.5°	5028.5	4442.9	2772.3	1053.3	535.4	481.7	440.3	400.7	363.7	343.5	343.5
30°	4963.3	4314.3	2427.9	753.8	480.0	426.2	376.0	326.7	287.1	268.6	266.8
32.5°	4891.1	4180.4	2080.1	571.5	435.9	374.3	317.0	265.1	229.8	214.9	214.0
35°	4829.5	4036.0	1733.1	479.1	391.9	324.1	261.6	217.5	189.3	177.0	176.1
37.5°	4789.8	3891.6	1394.9	428.0	352.3	277.4	219.3	179.7	159.4	149.7	148.8
40°	4783.7	3784.1	1085.8	389.2	315.3	236.0	183.2	152.4	133.9	123.3	122.4
42.5°	4863.8	3722.5	833.1	356.7	277.4	199.9	155.9	130.3	111.0	100.4	99.5
45°	5074.3	3741.9	641.1	327.6	239.5	169.1	132.1	108.3	90.7	82.8	81.0
47.5°	5458.3	3875.7	509.9	298.5	203.4	143.5	112.7	89.8	74.9	66.9	66.0
50°	6141.6	4190.1	426.2	266.8	170.0	122.4	93.3	73.1	60.8	53.7	52.8
52.5°	7048.7	4750.2	380.4	236.0	140.9	103.9	76.6	58.1	47.6	42.3	41.4
55°	8049.1	5428.3	350.5	202.5	115.4	86.3	60.8	45.8	37.0	32.6	30.8
57.5°	9025.8	6015.7	322.3	170.0	96.0	70.5	48.4	36.1	29.1	24.7	23.8
60°	9923.1	6555.5	289.7	136.5	78.4	55.5	37.9	28.2	22.9	18.5	18.5
62.5°	10883.9	6973.0	244.8	106.6	64.3	42.3	30.8	25.5	18.5	15.9	15.0
65°	11902.0	7283.0	192.0	82.8	50.2	31.7	25.5	26.4	15.0	11.4	10.6
67.5°	12654.0	7221.3	141.8	65.2	38.7	24.7	24.7	28.2	13.2	8.8	7.9
69°	12488.5	6720.2	118.9	56.4	33.5	21.1	22.9	28.2	12.3	7.9	7.0
70°	12008.5	6165.4	104.8	50.2	29.9	19.4	22.0	27.3	11.4	7.9	7.0
72.5°	10000.6	4643.7	81.9	37.9	23.8	15.9	18.5	23.8	11.4	7.9	6.2
75°	7522.5	2972.2	62.5	27.3	17.6	12.3	14.1	17.6	11.4	7.0	6.2
77.5°	4093.3	1071.7	44.9	18.5	12.3	9.7	9.7	13.2	10.6	5.3	3.5
80°	1052.4	269.5	28.2	12.3	9.7	7.0	6.2	8.8	6.2	0.9	0.0
82.5°	259.8	60.8	15.0	8.8	7.0	2.6	2.6	4.4	2.6	0.0	0.0
85°	142.7	29.9	9.7	6.2	3.5	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	73.1	8.8	2.6	1.8	0.9	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)