

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: P323312

Luminaire Tested: **GLEON-SA8A-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323312
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-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 22742 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - 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

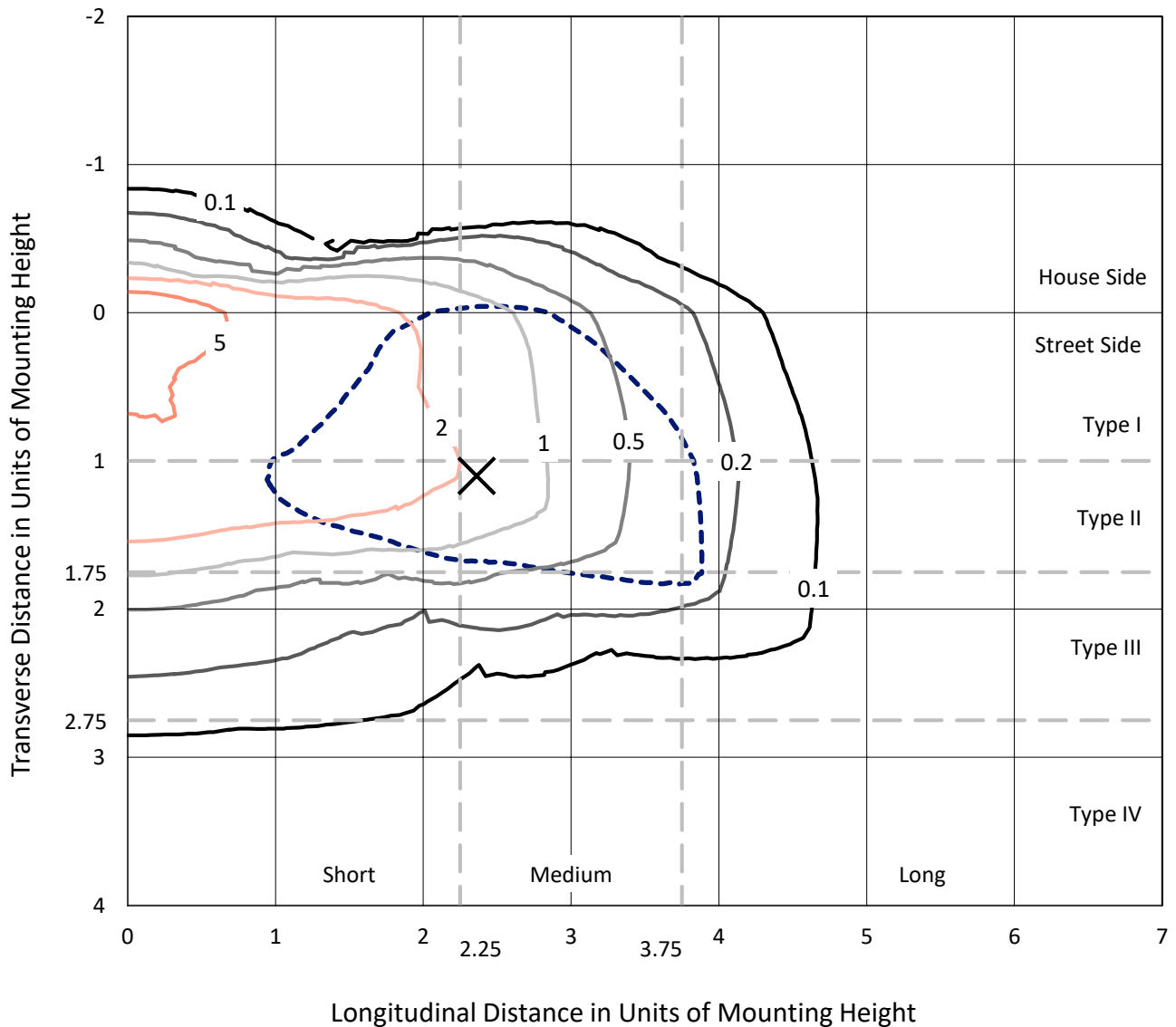




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Iso-Footcandle Lines of Horizontal Illumination

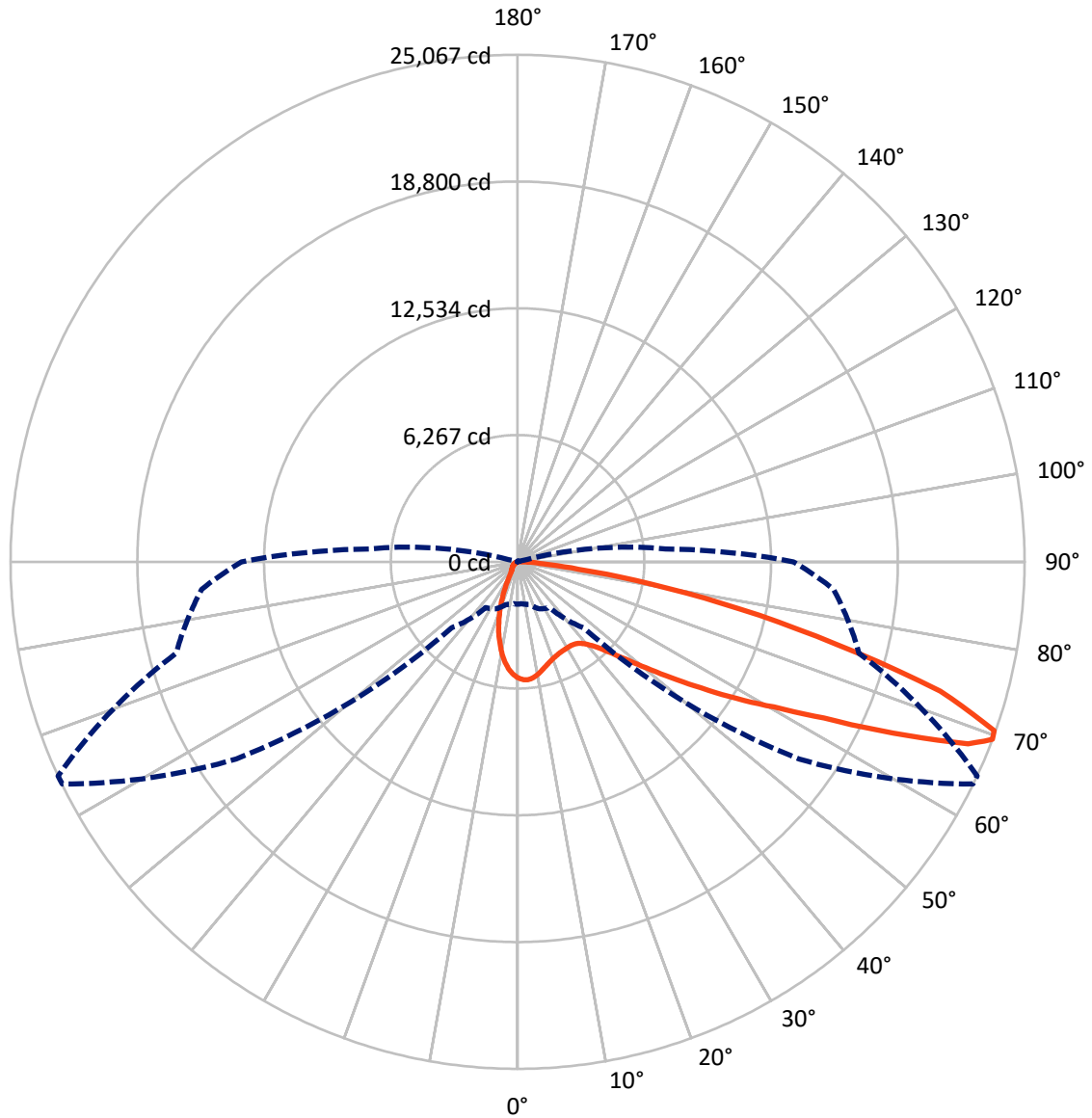
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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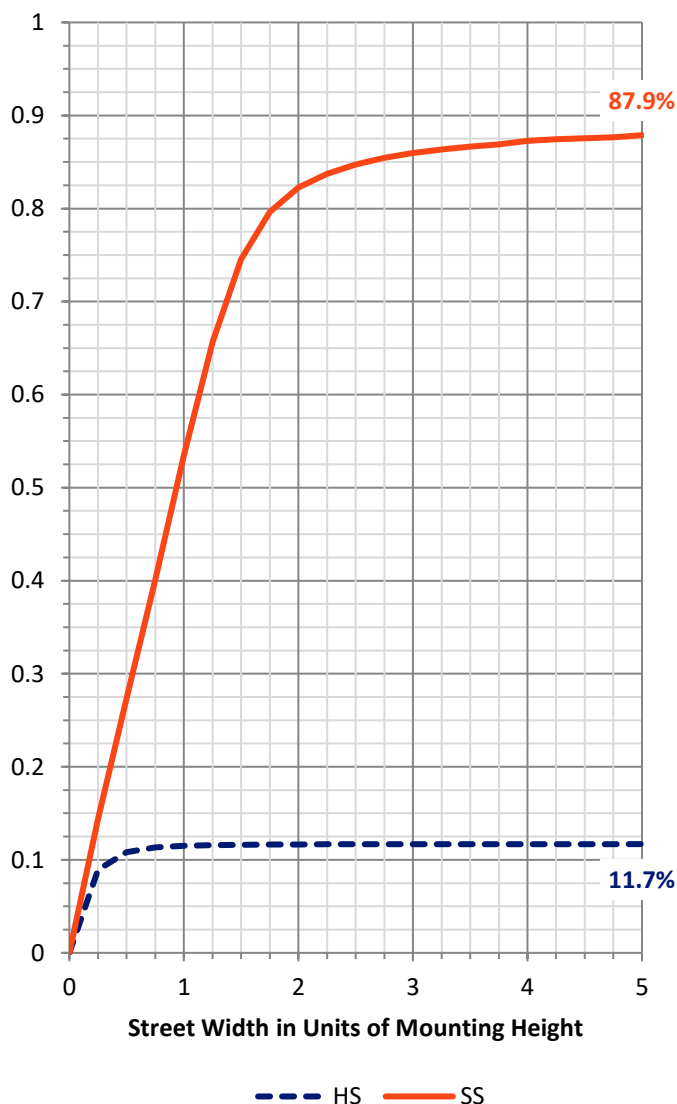
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2680.7	0.0	2680.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20061.3	0.0	20061.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	22742.0	0.0	22742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.6	2.1
10°-20°	1052.0	4.6
20°-30°	1457.0	6.4
30°-40°	2031.5	8.9
40°-50°	3157.7	13.9
50°-60°	5069.4	22.3
60°-70°	5734.3	25.2
70°-80°	3367.8	14.8
80°-90°	391.8	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°	22742.0	100.0
0°-180°	22742.0	100.0

Coefficient of Utilization

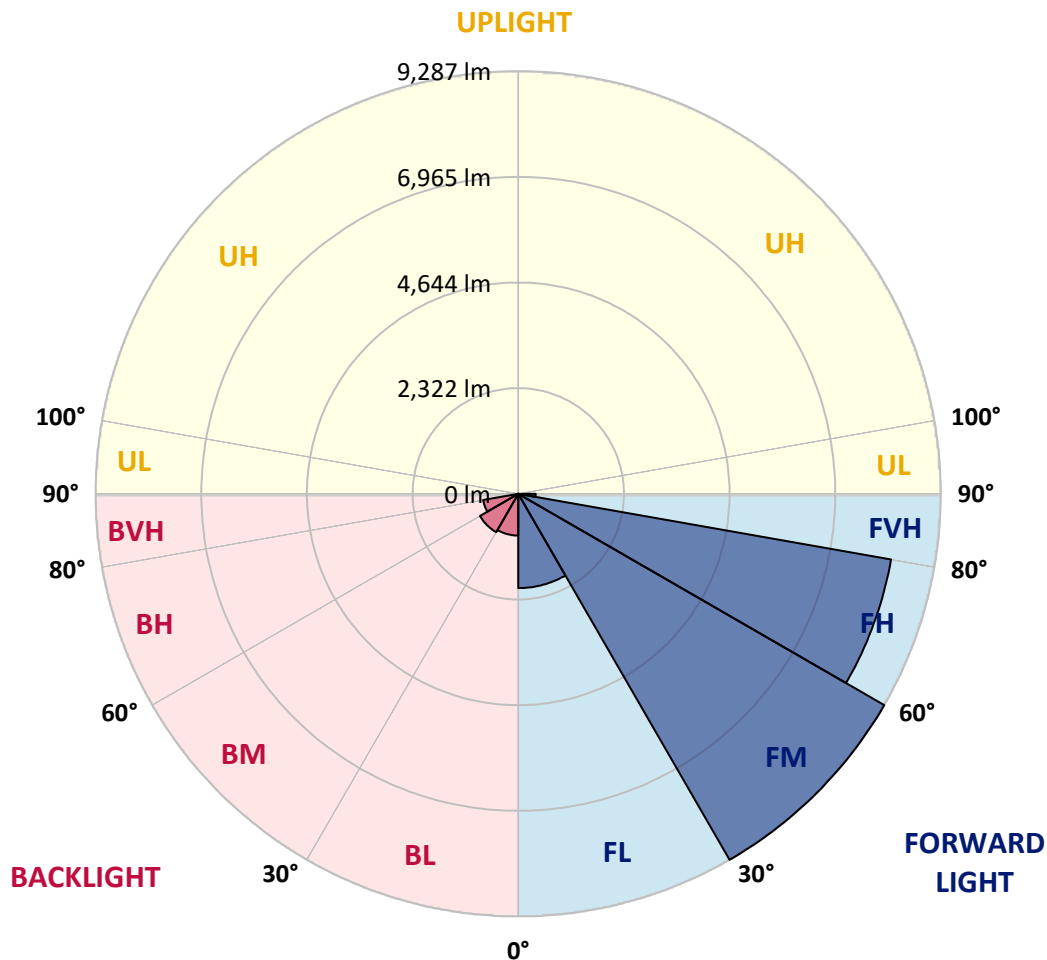


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2072.3	9.1			
FM (30°-60°)	9287.2	40.8			
FH (60°-80°)	8318.8	36.6			G4/12000
FVH (80°-90°)	383.0	1.7			G3/500
BL (0°-30°)	917.2	4.0	B2/1000		
BM (30°-60°)	971.4	4.3	B1/1000		
BH (60°-80°)	783.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	8.8	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°	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9
2.5°	5797.9	5783.5	5795.1	5820.1	5832.6	5832.6	5842.2	5830.7	5834.5	5806.6	5766.2
5°	5435.2	5413.0	5444.8	5515.0	5601.6	5675.7	5785.4	5843.2	5848.9	5849.9	5802.8
7.5°	5044.5	5024.2	5071.4	5154.2	5265.8	5403.4	5594.9	5762.3	5772.0	5862.4	5827.8
10°	4726.9	4712.5	4767.3	4855.8	4986.7	5140.7	5375.5	5608.4	5636.3	5836.4	5823.9
12.5°	4474.8	4463.2	4515.2	4617.2	4750.9	4921.3	5166.7	5437.1	5474.6	5777.7	5804.7
15°	4291.0	4289.0	4332.3	4430.5	4578.7	4737.5	4988.6	5278.3	5321.6	5714.2	5801.8
17.5°	4194.7	4197.6	4229.4	4313.1	4440.1	4597.9	4838.5	5144.5	5191.7	5657.4	5816.2
20°	4185.1	4188.0	4205.3	4252.5	4355.4	4495.0	4716.3	5031.9	5081.0	5615.1	5839.3
22.5°	4269.8	4267.9	4272.7	4267.9	4325.6	4431.5	4635.5	4945.3	5002.1	5587.2	5857.6
25°	4432.4	4429.5	4427.6	4392.0	4353.5	4410.3	4601.8	4896.3	4950.1	5567.0	5868.2
27.5°	4658.6	4656.6	4653.8	4595.1	4479.6	4444.0	4605.6	4878.0	4923.2	5550.6	5866.3
30°	4955.9	4969.4	4965.5	4883.7	4703.8	4546.9	4646.1	4868.3	4907.8	5518.9	5846.1
32.5°	5305.2	5332.2	5353.4	5265.8	5040.6	4750.9	4739.4	4878.9	4907.8	5494.8	5809.5
35°	5668.0	5702.7	5780.6	5749.8	5453.4	5057.9	4900.1	4942.4	4966.5	5508.3	5792.2
37.5°	6025.1	6066.4	6235.8	6325.3	5994.3	5464.0	5150.3	5099.3	5111.8	5590.1	5811.4
40°	6439.8	6502.4	6759.3	6903.6	6640.0	6007.7	5524.6	5368.8	5373.6	5770.0	5900.9
42.5°	6984.5	7049.0	7327.1	7553.2	7367.5	6694.8	6032.8	5780.6	5775.8	6106.8	6111.7
45°	7648.5	7715.8	8003.6	8254.7	8171.0	7508.9	6683.3	6382.1	6376.3	6638.0	6511.0
47.5°	8401.0	8467.4	8724.3	8983.2	9073.7	8459.7	7511.8	7202.9	7189.5	7376.1	7127.9
50°	9046.7	9090.0	9326.8	9675.1	10083.1	9628.0	8542.5	8245.1	8230.7	8356.7	8033.4
52.5°	9281.5	9306.5	9547.1	10035.0	11053.1	11210.0	9896.4	9513.4	9502.9	9557.7	9239.2
55°	8806.1	8851.4	9146.8	9870.5	11578.6	12998.0	11605.5	11083.9	11004.1	10885.7	10499.8
57.5°	7510.9	7583.0	7900.6	8862.9	11333.2	14416.4	14117.2	12860.4	12743.0	12019.3	11524.7
60°	5627.6	5716.1	5979.8	7018.2	10023.5	14921.7	16861.7	14839.9	14575.2	12922.0	12466.8
62.5°	3861.8	3906.0	4085.0	4761.5	7381.9	14094.1	19157.8	17491.0	17007.9	13903.5	13485.9
65°	2949.5	2964.9	3038.0	3270.9	4395.9	11448.7	20071.0	20989.0	20404.9	15077.5	14543.5
67.5°	2376.9	2364.4	2465.5	2798.4	2943.7	6984.5	19005.7	24298.4	24025.1	16647.1	15607.8
69°	2095.9	2078.6	2181.6	2568.4	2764.7	4617.2	16990.6	25050.0	25067.3	17475.6	15680.9
70°	1886.1	1897.7	1999.7	2431.8	2704.1	3624.1	15066.0	24858.5	24995.2	17785.5	15242.1
72.5°	1259.7	1290.5	1495.4	2018.9	2600.2	2742.6	9096.8	21331.6	21857.1	17087.8	13076.9
75°	710.2	733.3	976.7	1522.4	2450.1	2611.7	4804.8	15715.6	16223.7	14289.4	10084.1
77.5°	348.4	360.9	552.4	982.5	2048.8	2488.5	2725.3	10675.0	11255.2	9326.8	5703.6
80°	147.2	154.0	276.2	606.3	1464.6	2375.0	2023.7	6569.7	6641.9	3653.9	1519.5
82.5°	56.8	58.7	116.4	378.2	930.6	1851.5	1692.7	3115.0	3040.0	688.1	346.4
85°	6.7	7.7	42.3	227.1	517.7	952.7	1375.1	1342.4	1242.3	136.6	178.0
87.5°	0.0	0.0	2.9	69.3	154.0	446.5	715.0	557.2	502.3	44.3	92.4
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°	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9	5746.9
2.5°	5732.5	5722.9	5670.9	5595.9	5524.6	5436.1	5351.4	5300.4	5260.0	5233.1	5264.8
5°	5747.9	5705.6	5547.7	5345.7	5147.4	4924.2	4716.3	4540.2	4470.9	4393.9	4428.6
7.5°	5743.1	5663.2	5379.3	5019.4	4655.7	4279.4	3923.4	3649.1	3506.7	3367.1	3402.7
10°	5719.0	5584.3	5154.2	4621.0	4076.4	3535.5	3030.3	2646.4	2431.8	2237.4	2265.3
12.5°	5666.1	5478.5	4888.6	4164.9	3436.4	2723.4	2131.5	1639.8	1376.1	1259.7	1274.1
15°	5634.4	5375.5	4607.6	3703.0	2753.2	1896.7	1303.0	969.1	848.8	810.3	815.1
17.5°	5619.0	5276.4	4316.9	3174.7	2054.5	1207.7	842.0	742.9	716.9	710.2	712.1
20°	5603.6	5176.3	4017.7	2652.1	1415.6	812.2	691.9	663.0	653.4	644.8	646.7
22.5°	5577.6	5080.1	3696.3	2122.9	954.6	659.2	623.6	595.7	575.5	564.9	566.8
25°	5545.8	4979.0	3368.1	1581.1	696.7	588.0	554.3	514.8	490.8	471.5	472.5
27.5°	5494.8	4854.9	3029.4	1150.9	585.1	526.4	481.2	437.9	397.4	375.3	375.3
30°	5423.6	4714.4	2653.1	823.7	524.5	465.8	410.9	357.0	313.7	293.5	291.6
32.5°	5344.7	4568.1	2273.0	624.5	476.3	409.0	346.4	289.7	251.2	234.8	233.8
35°	5277.3	4410.3	1893.8	523.5	428.2	354.1	285.8	237.7	206.9	193.4	192.5
37.5°	5234.0	4252.5	1524.3	467.7	384.9	303.1	239.6	196.3	174.2	163.6	162.6
40°	5227.3	4135.1	1186.5	425.3	344.5	257.9	200.2	166.5	146.3	134.7	133.8
42.5°	5314.9	4067.7	910.3	389.7	303.1	218.4	170.3	142.4	121.3	109.7	108.7
45°	5544.9	4088.9	700.6	358.0	261.7	184.8	144.3	118.4	99.1	90.5	88.5
47.5°	5964.4	4235.1	557.2	326.2	222.3	156.9	123.2	98.2	81.8	73.1	72.2
50°	6711.2	4578.7	465.8	291.6	185.7	133.8	102.0	79.9	66.4	58.7	57.7
52.5°	7702.4	5190.7	415.7	257.9	154.0	113.6	83.7	63.5	52.0	46.2	45.2
55°	8795.6	5931.7	383.0	221.3	126.1	94.3	66.4	50.0	40.4	35.6	33.7
57.5°	9862.8	6573.6	352.2	185.7	104.9	77.0	52.9	39.5	31.8	26.9	26.0
60°	10843.4	7163.5	316.6	149.2	85.6	60.6	41.4	30.8	25.0	20.2	20.2
62.5°	11893.2	7619.6	267.5	116.4	70.2	46.2	33.7	27.9	20.2	17.3	16.4
65°	13005.7	7958.3	209.8	90.5	54.9	34.6	27.9	28.9	16.4	12.5	11.5
67.5°	13827.5	7891.0	154.9	71.2	42.3	26.9	26.9	30.8	14.4	9.6	8.7
69°	13646.6	7343.4	129.9	61.6	36.6	23.1	25.0	30.8	13.5	8.7	7.7
70°	13122.1	6737.2	114.5	54.9	32.7	21.2	24.1	29.8	12.5	8.7	7.7
72.5°	10928.0	5074.3	89.5	41.4	26.0	17.3	20.2	26.0	12.5	8.7	6.7
75°	8220.1	3247.8	68.3	29.8	19.2	13.5	15.4	19.2	12.5	7.7	6.7
77.5°	4472.8	1171.1	49.1	20.2	13.5	10.6	10.6	14.4	11.5	5.8	3.8
80°	1150.0	294.5	30.8	13.5	10.6	7.7	6.7	9.6	6.7	1.0	0.0
82.5°	283.9	66.4	16.4	9.6	7.7	2.9	2.9	4.8	2.9	0.0	0.0
85°	155.9	32.7	10.6	6.7	3.8	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	79.9	9.6	2.9	1.9	1.0	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)