

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: P323310

Luminaire Tested: **GLEON-SA6A-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323310
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-SA6A-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 16972 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

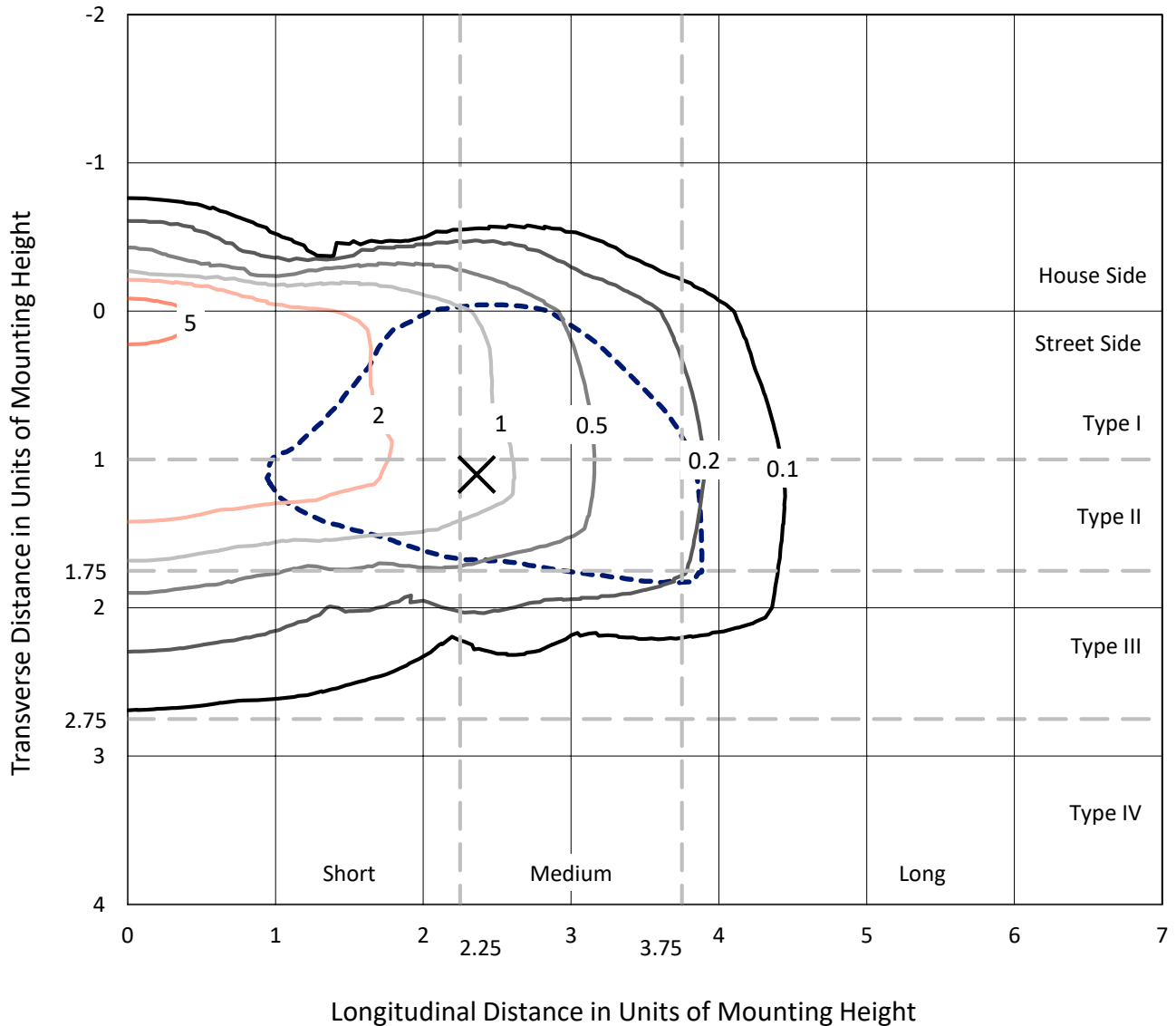
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

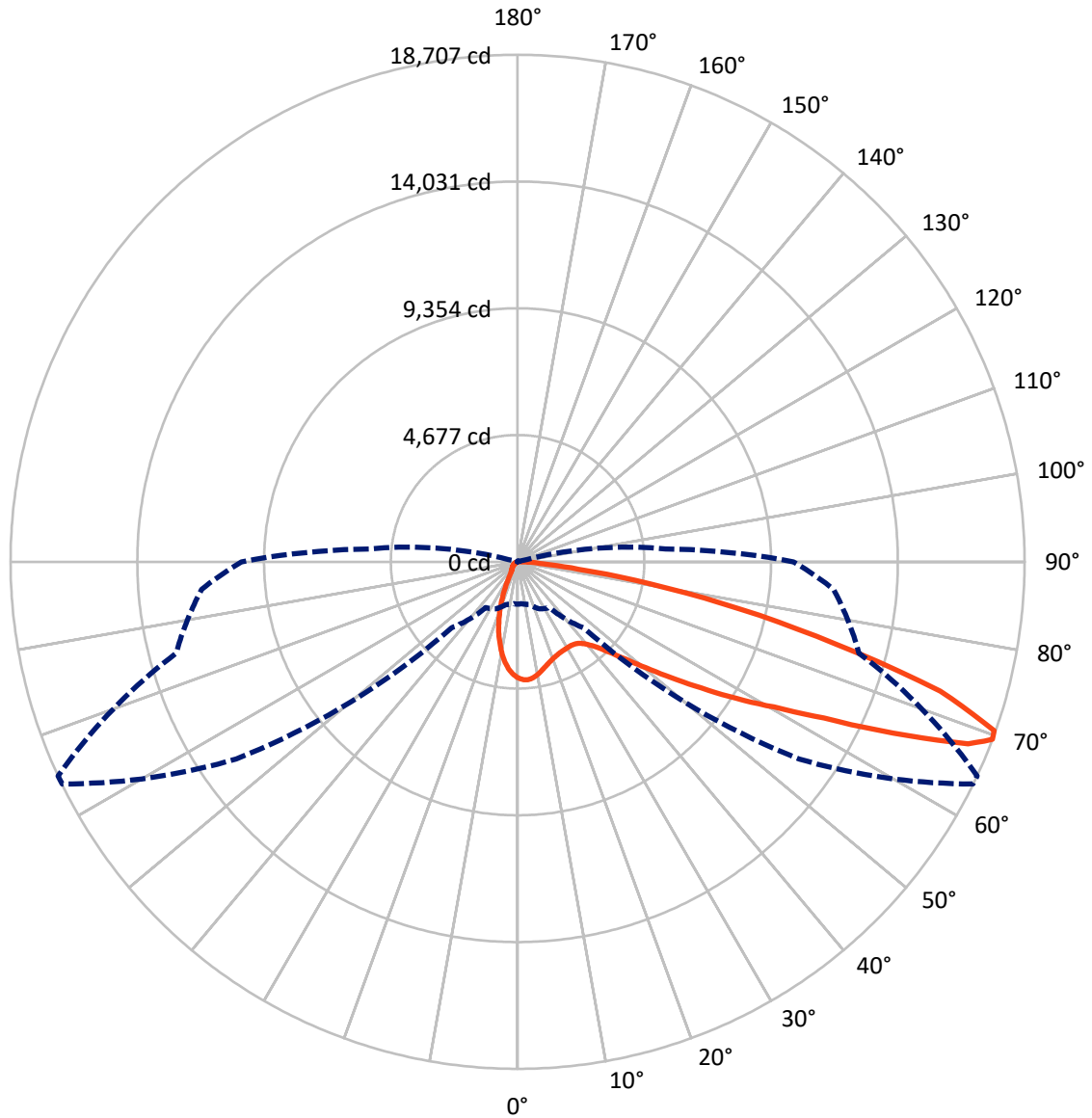
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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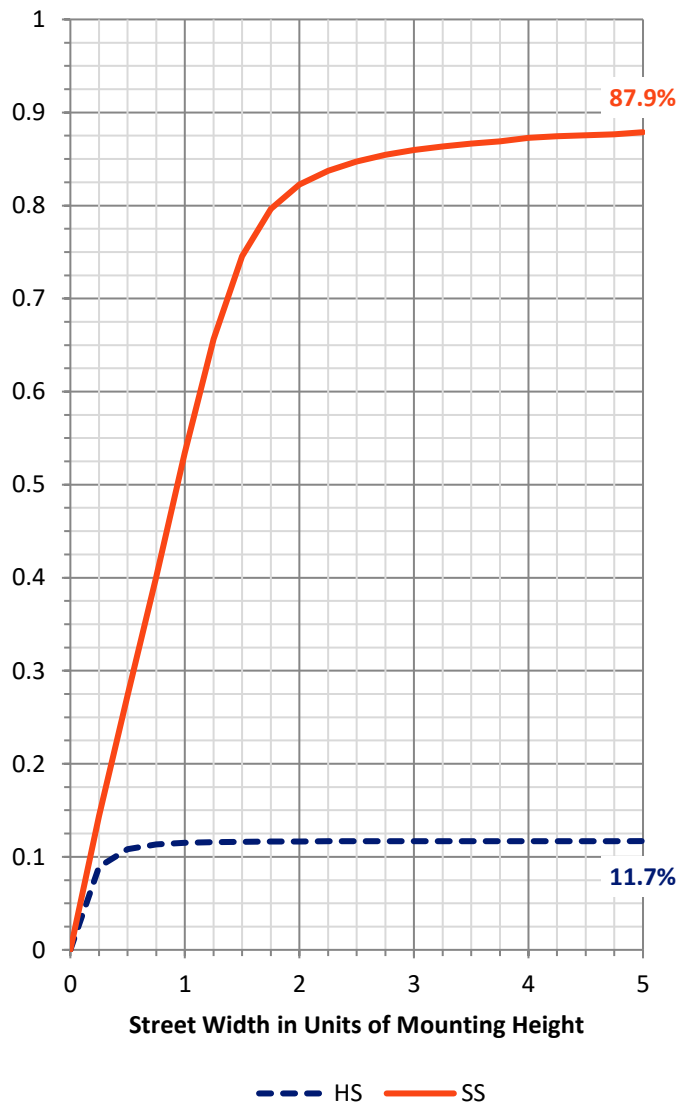
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2000.6	0.0	2000.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14971.4	0.0	14971.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	16972.0	0.0	16972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.6	2.1
10°-20°	785.1	4.6
20°-30°	1087.4	6.4
30°-40°	1516.1	8.9
40°-50°	2356.5	13.9
50°-60°	3783.2	22.3
60°-70°	4279.4	25.2
70°-80°	2513.3	14.8
80°-90°	292.4	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°	16972.0	100.0
0°-180°	16972.0	100.0

Coefficient of Utilization

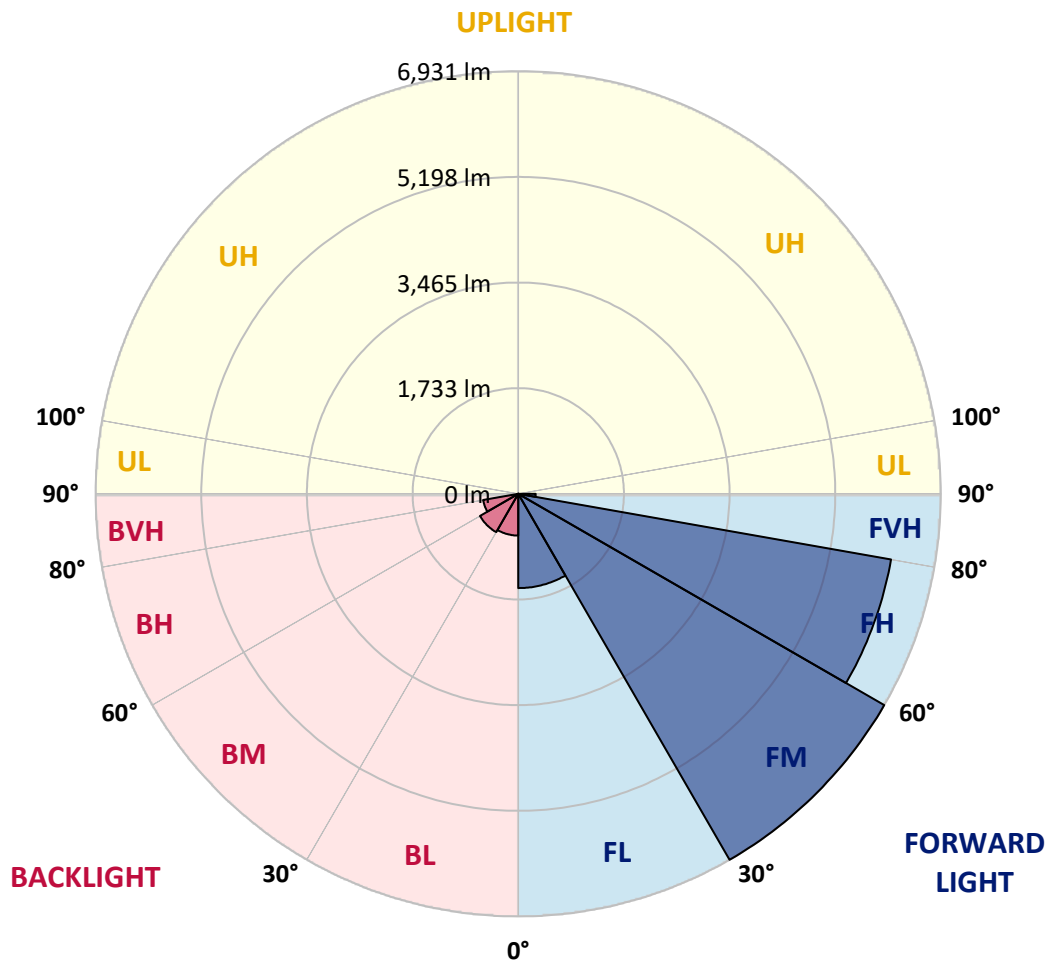


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.5	9.1			
FM (30°-60°)	6930.9	40.8			
FH (60°-80°)	6208.2	36.6			G3/7500
FVH (80°-90°)	285.8	1.7			G3/500
BL (0°-30°)	684.5	4.0	B2/1000		
BM (30°-60°)	725.0	4.3	B1/1000		
BH (60°-80°)	584.5	3.4	B2/1000		G2/1000
BVH (80°-90°)	6.6	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9
2.5°	4326.9	4316.1	4324.8	4343.4	4352.8	4352.8	4360.0	4351.3	4354.2	4333.4	4303.2
5°	4056.2	4039.7	4063.4	4115.8	4180.4	4235.7	4317.6	4360.7	4365.0	4365.7	4330.5
7.5°	3764.6	3749.5	3784.7	3846.5	3929.8	4032.5	4175.4	4300.3	4307.5	4375.0	4349.2
10°	3527.6	3516.8	3557.8	3623.8	3721.5	3836.4	4011.6	4185.4	4206.3	4355.6	4346.3
12.5°	3339.4	3330.8	3369.6	3445.7	3545.6	3672.7	3855.8	4057.6	4085.6	4311.8	4331.9
15°	3202.3	3200.8	3233.2	3306.4	3417.0	3535.5	3722.9	3939.1	3971.4	4264.4	4329.8
17.5°	3130.5	3132.6	3156.3	3218.8	3313.6	3431.4	3610.9	3839.3	3874.5	4222.1	4340.6
20°	3123.3	3125.4	3138.4	3173.6	3250.4	3354.5	3519.7	3755.3	3791.9	4190.5	4357.8
22.5°	3186.5	3185.0	3188.6	3185.0	3228.1	3307.1	3459.4	3690.6	3733.0	4169.6	4371.4
25°	3307.8	3305.7	3304.3	3277.7	3249.0	3291.3	3434.2	3654.0	3694.2	4154.6	4379.3
27.5°	3476.6	3475.2	3473.0	3429.2	3343.0	3316.5	3437.1	3640.4	3674.1	4142.3	4377.9
30°	3698.5	3708.6	3705.7	3644.7	3510.4	3393.3	3467.3	3633.2	3662.6	4118.7	4362.8
32.5°	3959.2	3979.3	3995.1	3929.8	3761.7	3545.6	3536.9	3641.1	3662.6	4100.7	4335.5
35°	4230.0	4255.8	4314.0	4291.0	4069.8	3774.7	3656.9	3688.5	3706.4	4110.8	4322.6
37.5°	4496.4	4527.3	4653.7	4720.5	4473.4	4077.7	3843.6	3805.5	3814.9	4171.8	4337.0
40°	4805.9	4852.6	5044.4	5152.1	4955.3	4483.5	4123.0	4006.6	4010.2	4306.1	4403.8
42.5°	5212.4	5260.5	5468.1	5636.8	5498.2	4996.2	4502.1	4314.0	4310.4	4557.4	4561.0
45°	5707.9	5758.2	5972.9	6160.4	6097.9	5603.8	4987.6	4762.8	4758.5	4953.9	4859.1
47.5°	6269.5	6319.1	6510.8	6704.0	6771.5	6313.3	5606.0	5375.4	5365.4	5504.7	5319.4
50°	6751.4	6783.7	6960.4	7220.4	7524.9	7185.2	6375.1	6153.2	6142.4	6236.5	5995.2
52.5°	6926.7	6945.3	7124.9	7489.0	8248.8	8365.9	7385.6	7099.7	7091.8	7132.8	6895.1
55°	6571.9	6605.6	6826.1	7366.2	8640.9	9700.2	8661.0	8271.8	8212.2	8123.8	7835.8
57.5°	5605.2	5659.1	5896.1	6614.3	8457.8	10758.8	10535.4	9597.5	9509.9	8969.8	8600.7
60°	4199.8	4265.9	4462.6	5237.5	7480.4	11135.8	12583.6	11074.8	10877.3	9643.5	9303.8
62.5°	2882.0	2915.0	3048.6	3553.5	5509.0	10518.2	14297.1	13053.3	12692.8	10376.0	10064.3
65°	2201.2	2212.7	2267.2	2441.0	3280.6	8544.0	14978.7	15663.8	15227.9	11252.1	10853.6
67.5°	1773.9	1764.5	1839.9	2088.4	2196.9	5212.4	14183.7	18133.6	17929.6	12423.5	11647.8
69°	1564.2	1551.2	1628.1	1916.8	2063.3	3445.7	12679.8	18694.4	18707.4	13041.8	11702.4
70°	1407.6	1416.2	1492.3	1814.8	2018.0	2704.6	11243.5	18551.5	18653.5	13273.0	11374.9
72.5°	940.1	963.1	1116.0	1506.7	1940.5	2046.8	6788.8	15919.5	16311.6	12752.4	9759.1
75°	530.0	547.2	728.9	1136.1	1828.4	1949.1	3585.8	11728.3	12107.5	10664.0	7525.6
77.5°	260.0	269.3	412.2	733.2	1529.0	1857.2	2033.8	7966.6	8399.6	6960.4	4256.5
80°	109.9	114.9	206.1	452.4	1093.0	1772.4	1510.3	4902.9	4956.7	2726.9	1134.0
82.5°	42.4	43.8	86.9	282.2	694.5	1381.7	1263.2	2324.7	2268.7	513.5	258.5
85°	5.0	5.7	31.6	169.5	386.4	711.0	1026.3	1001.8	927.1	102.0	132.9
87.5°	0.0	0.0	2.2	51.7	114.9	333.2	533.6	415.8	374.9	33.0	68.9
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°	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9
2.5°	4278.1	4270.9	4232.1	4176.1	4123.0	4056.9	3993.7	3955.6	3925.5	3905.4	3929.1
5°	4289.6	4258.0	4140.2	3989.4	3841.4	3674.8	3519.7	3388.3	3336.6	3279.1	3305.0
7.5°	4286.0	4226.4	4014.5	3745.9	3474.5	3193.7	2927.9	2723.3	2617.0	2512.8	2539.4
10°	4268.0	4167.5	3846.5	3448.6	3042.1	2638.5	2261.5	1974.9	1814.8	1669.7	1690.5
12.5°	4228.5	4088.5	3648.3	3108.2	2564.6	2032.4	1590.7	1223.7	1027.0	940.1	950.8
15°	4204.8	4011.6	3438.6	2763.5	2054.7	1415.5	972.4	723.2	633.4	604.7	608.3
17.5°	4193.3	3937.7	3221.7	2369.2	1533.3	901.3	628.4	554.4	535.0	530.0	531.4
20°	4181.8	3863.0	2998.3	1979.3	1056.4	606.1	516.4	494.8	487.6	481.2	482.6
22.5°	4162.5	3791.2	2758.5	1584.3	712.4	491.9	465.4	444.5	429.5	421.6	423.0
25°	4138.8	3715.8	2513.6	1179.9	519.9	438.8	413.7	384.2	366.3	351.9	352.6
27.5°	4100.7	3623.1	2260.8	858.9	436.6	392.8	359.1	326.8	296.6	280.1	280.1
30°	4047.6	3518.3	1980.0	614.7	391.4	347.6	306.7	266.4	234.1	219.0	217.6
32.5°	3988.7	3409.1	1696.3	466.1	355.5	305.2	258.5	216.2	187.4	175.2	174.5
35°	3938.4	3291.3	1413.3	390.7	319.6	264.3	213.3	177.4	154.4	144.4	143.6
37.5°	3906.1	3173.6	1137.6	349.0	287.3	226.2	178.8	146.5	130.0	122.1	121.4
40°	3901.0	3085.9	885.5	317.4	257.1	192.5	149.4	124.2	109.2	100.5	99.8
42.5°	3966.4	3035.7	679.4	290.9	226.2	163.0	127.1	106.3	90.5	81.9	81.2
45°	4138.0	3051.5	522.8	267.2	195.3	137.9	107.7	88.3	74.0	67.5	66.1
47.5°	4451.2	3160.6	415.8	243.5	165.9	117.1	91.9	73.3	61.0	54.6	53.9
50°	5008.5	3417.0	347.6	217.6	138.6	99.8	76.1	59.6	49.6	43.8	43.1
52.5°	5748.2	3873.8	310.2	192.5	114.9	84.7	62.5	47.4	38.8	34.5	33.8
55°	6564.0	4426.7	285.8	165.2	94.1	70.4	49.6	37.3	30.2	26.6	25.1
57.5°	7360.4	4905.8	262.8	138.6	78.3	57.5	39.5	29.4	23.7	20.1	19.4
60°	8092.2	5346.0	236.3	111.3	63.9	45.2	30.9	23.0	18.7	15.1	15.1
62.5°	8875.7	5686.4	199.6	86.9	52.4	34.5	25.1	20.8	15.1	12.9	12.2
65°	9705.9	5939.2	156.6	67.5	40.9	25.9	20.8	21.5	12.2	9.3	8.6
67.5°	10319.2	5888.9	115.6	53.1	31.6	20.1	20.1	23.0	10.8	7.2	6.5
69°	10184.2	5480.3	97.0	46.0	27.3	17.2	18.7	23.0	10.1	6.5	5.7
70°	9792.8	5027.8	85.5	40.9	24.4	15.8	18.0	22.3	9.3	6.5	5.7
72.5°	8155.4	3786.9	66.8	30.9	19.4	12.9	15.1	19.4	9.3	6.5	5.0
75°	6134.5	2423.8	51.0	22.3	14.4	10.1	11.5	14.4	9.3	5.7	5.0
77.5°	3338.0	874.0	36.6	15.1	10.1	7.9	7.9	10.8	8.6	4.3	2.9
80°	858.2	219.8	23.0	10.1	7.9	5.7	5.0	7.2	5.0	0.7	0.0
82.5°	211.9	49.6	12.2	7.2	5.7	2.2	2.2	3.6	2.2	0.0	0.0
85°	116.3	24.4	7.9	5.0	2.9	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	59.6	7.2	2.2	1.4	0.7	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)