

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: P320122

Luminaire Tested: **GLEON-SA8B-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31992 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

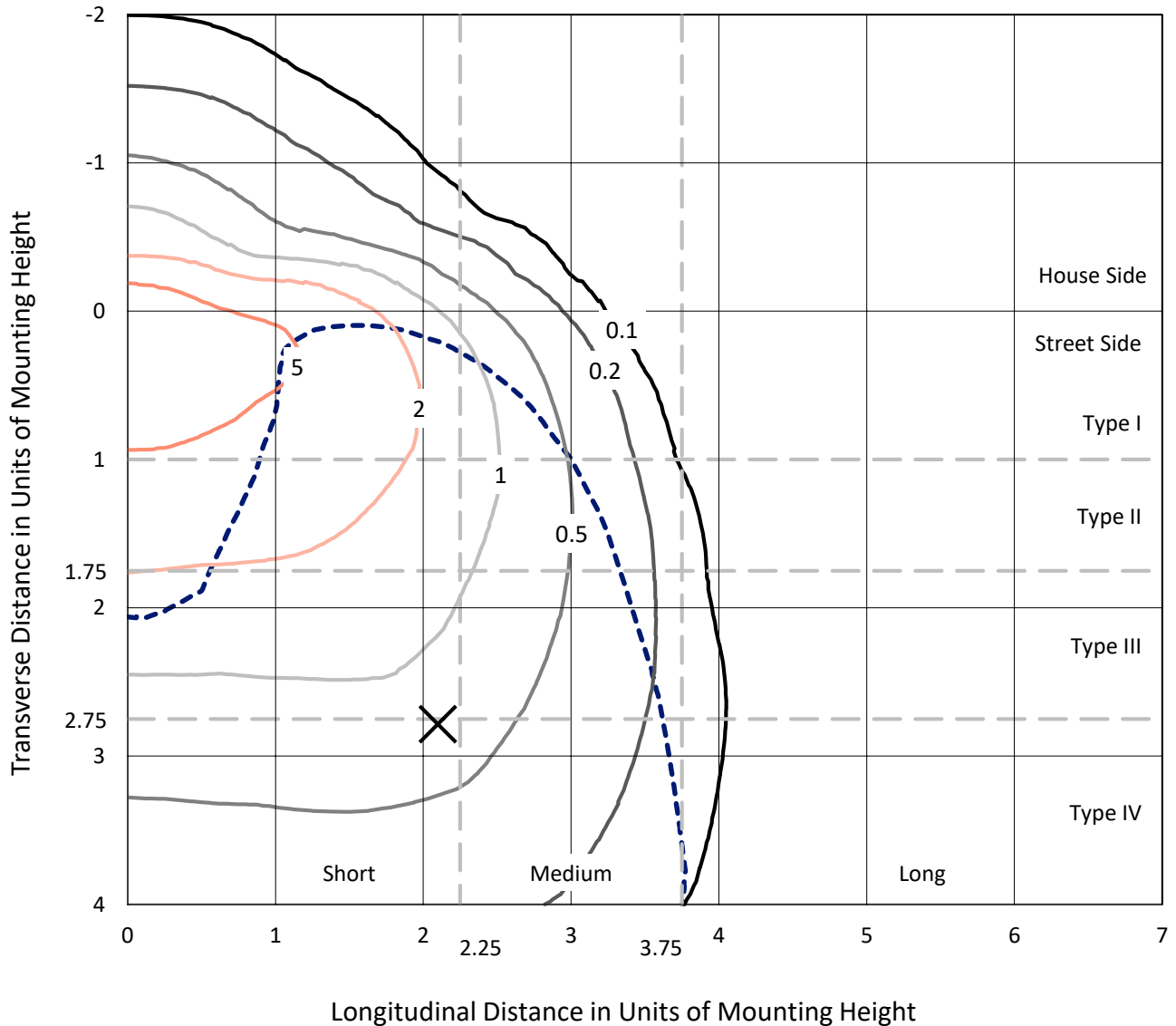
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

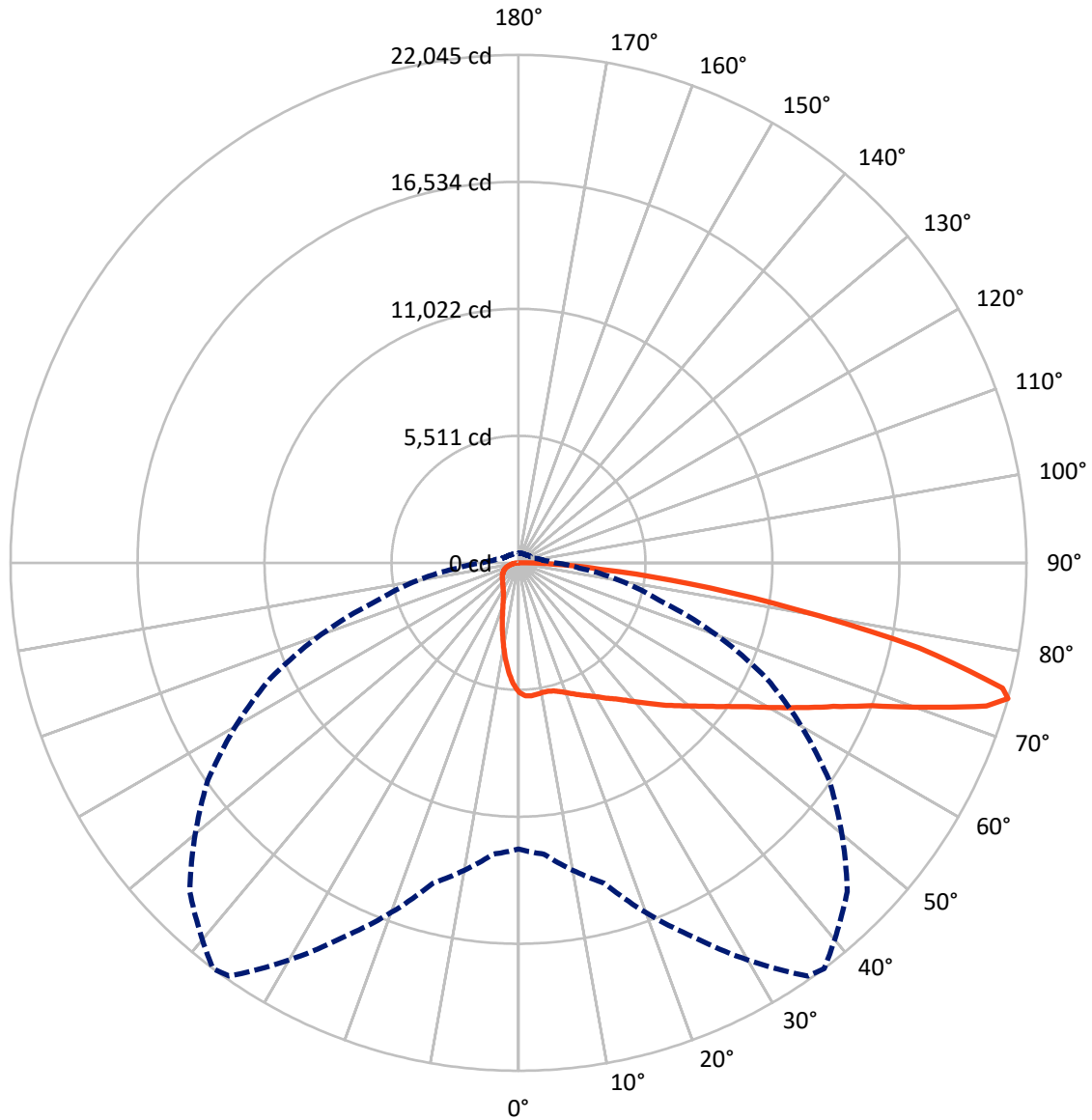
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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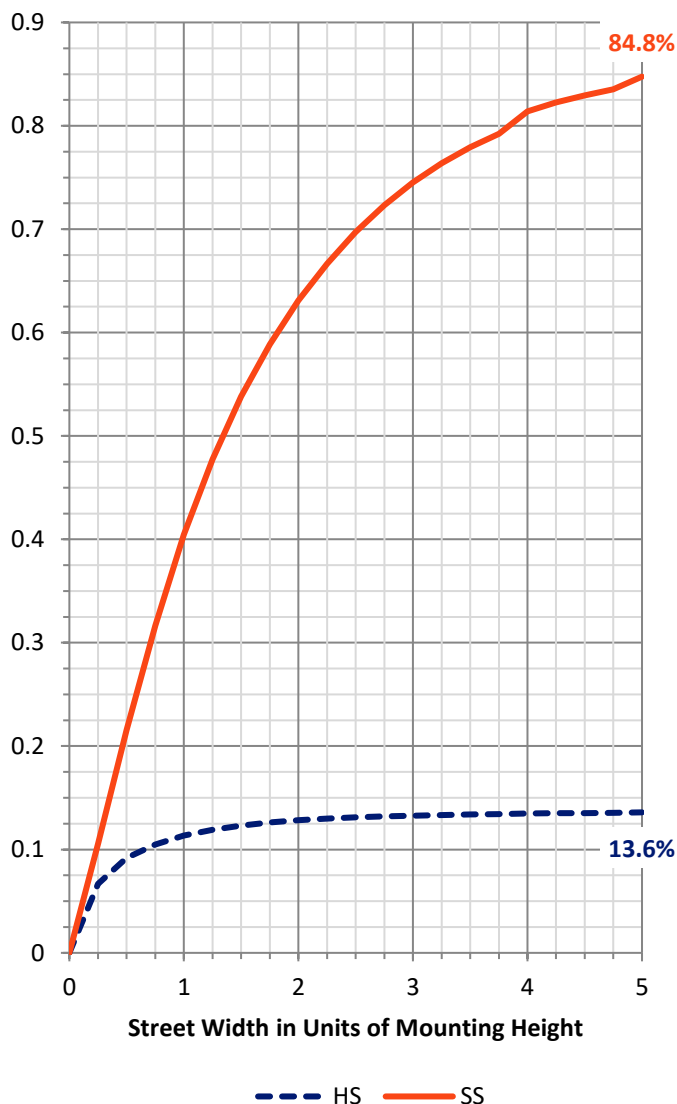
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4401.9	0.0	4401.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	27590.1	0.0	27590.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	31992.0	0.0	31992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.4	1.6
10°-20°	1272.4	4.0
20°-30°	1960.5	6.1
30°-40°	2850.8	8.9
40°-50°	4195.9	13.1
50°-60°	5892.4	18.4
60°-70°	7458.0	23.3
70°-80°	6567.1	20.5
80°-90°	1298.4	4.1
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°	31992.0	100.0
0°-180°	31992.0	100.0

Coefficient of Utilization



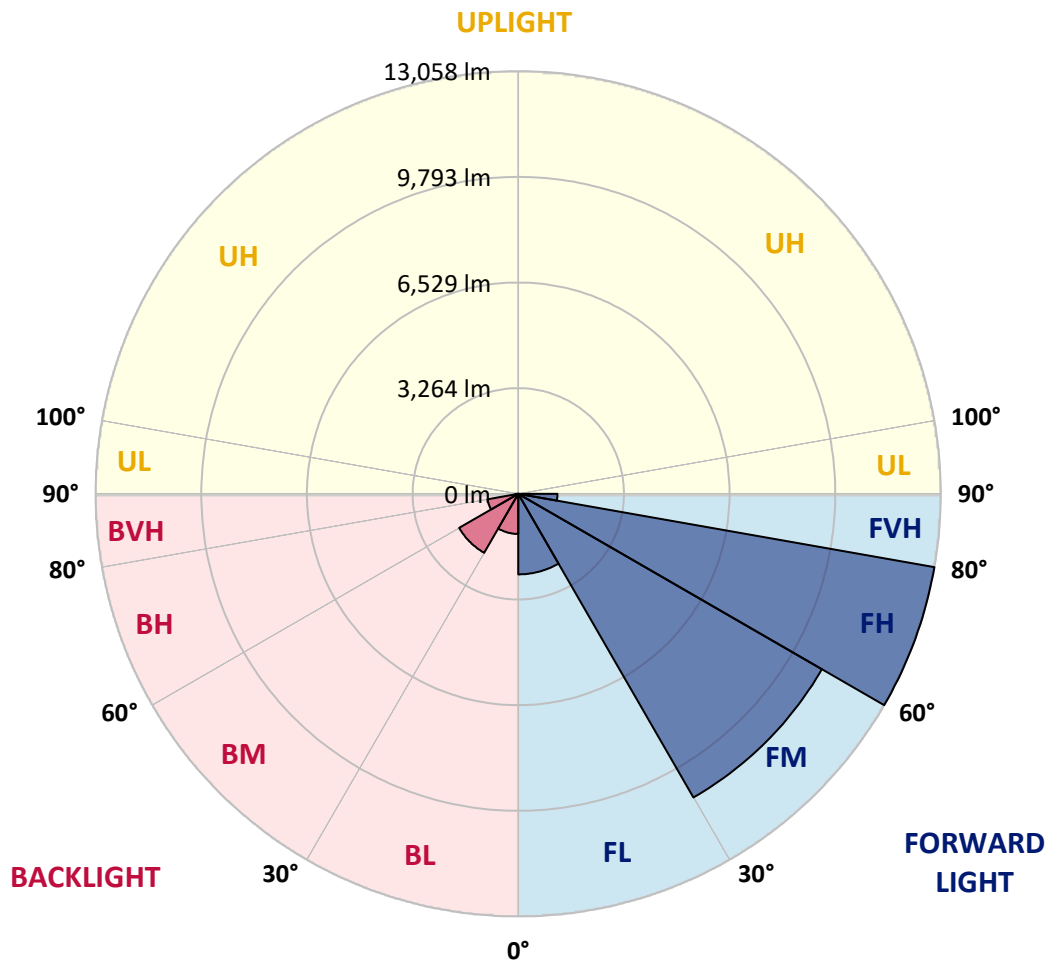
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2489.4	7.8			
FM (30°-60°)	10832.7	33.9			
FH (60°-80°)	13057.5	40.8			G5
FVH (80°-90°)	1210.5	3.8			G5
BL (0°-30°)	1239.9	3.9	B3/2500		
BM (30°-60°)	2106.5	6.6	B2/2500		
BH (60°-80°)	967.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	87.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9
2.5°	5829.6	5830.7	5829.6	5820.6	5799.1	5781.1	5766.5	5745.1	5697.7	5661.7	5607.6
5°	5884.8	5878.0	5873.5	5856.6	5822.8	5802.5	5774.4	5733.8	5656.0	5583.9	5496.0
7.5°	5858.9	5851.0	5840.8	5820.6	5782.2	5765.3	5725.9	5672.9	5579.4	5484.7	5358.5
10°	5778.9	5776.6	5772.1	5767.6	5734.9	5721.4	5685.3	5629.0	5536.6	5421.6	5274.0
12.5°	5689.8	5695.5	5713.5	5737.2	5722.5	5715.8	5693.2	5654.9	5560.2	5436.3	5258.2
15°	5633.5	5649.3	5697.7	5759.7	5772.1	5769.8	5764.2	5739.4	5639.1	5501.6	5294.3
17.5°	5614.3	5640.2	5732.7	5835.2	5871.3	5879.2	5881.4	5838.6	5727.0	5581.6	5331.5
20°	5649.3	5681.9	5817.2	5958.0	6015.5	6020.0	6009.9	5935.5	5810.4	5650.4	5351.8
22.5°	5755.2	5784.5	5953.5	6112.4	6177.8	6184.6	6154.1	6041.4	5898.3	5731.5	5379.9
25°	5959.2	5995.2	6164.3	6323.2	6357.0	6358.1	6314.1	6174.4	6013.3	5845.3	5440.8
27.5°	6225.1	6261.2	6413.3	6568.8	6550.8	6540.7	6480.9	6341.2	6163.1	6002.0	5549.0
30°	6521.5	6560.9	6705.2	6815.6	6772.8	6752.5	6704.1	6523.8	6371.6	6216.1	5714.6
32.5°	6828.0	6864.1	6990.3	7065.8	7011.7	7002.7	6929.4	6764.9	6643.2	6542.9	5982.8
35°	7142.4	7168.4	7292.3	7335.1	7263.0	7260.8	7240.5	7089.5	7012.8	7060.2	6372.7
37.5°	7463.6	7470.4	7576.3	7578.6	7557.1	7566.2	7587.6	7492.9	7514.3	7661.9	6879.9
40°	7749.8	7767.9	7844.5	7868.2	7905.4	7936.9	8044.0	7982.0	8147.6	8409.1	7510.9
42.5°	7961.7	7996.6	8119.5	8180.3	8300.9	8350.5	8501.5	8559.0	8892.5	9284.7	8261.5
45°	8140.9	8195.0	8392.2	8517.3	8721.3	8808.0	9024.4	9217.1	9734.4	10234.7	9051.4
47.5°	8334.7	8403.5	8650.3	8889.2	9166.4	9264.4	9657.7	9946.2	10632.5	11190.3	9796.3
50°	8619.8	8672.8	8914.0	9289.2	9635.2	9761.4	10305.7	10719.3	11545.3	12100.9	10442.1
52.5°	9017.6	8997.3	9201.3	9727.6	10191.9	10347.4	10997.6	11541.9	12470.5	12924.7	10987.5
55°	9417.7	9383.9	9527.0	10186.3	10841.0	11004.4	11759.4	12368.0	13350.7	13666.2	11405.6
57.5°	9862.8	9798.6	9919.2	10703.5	11580.3	11775.2	12612.5	13245.8	14216.1	14265.7	11671.5
60°	10321.5	10234.7	10369.9	11344.7	12519.0	12748.9	13611.0	14102.3	15032.0	14745.8	11757.2
62.5°	10722.7	10661.8	10870.3	12060.3	13577.2	13829.6	14591.4	15012.9	15836.6	14945.2	11448.4
65°	11073.1	11083.3	11443.9	12864.9	14757.1	15026.4	15716.1	16135.3	16470.0	14826.9	10726.0
67.5°	11491.2	11548.7	12164.0	13924.3	16242.3	16537.6	17352.4	17359.1	16823.8	14132.7	9303.9
70°	12100.9	12219.2	13154.6	15393.8	18354.2	18759.9	19388.7	18078.1	16326.9	12250.8	7320.5
72.5°	12641.8	12862.7	14208.2	17075.1	20928.1	21235.7	20579.9	17663.4	14249.9	9181.0	4560.7
74°	12422.1	12695.9	14399.8	17903.4	21897.2	22044.9	20177.5	16453.1	11881.1	6358.1	2650.5
75°	11948.8	12246.3	14120.3	17895.5	21774.4	21692.1	19206.1	15070.3	9785.1	4336.4	1763.6
77.5°	9643.1	9957.5	11898.0	15337.4	17853.8	17776.1	14753.7	10109.6	4285.7	1422.2	895.9
80°	5606.4	5846.5	7385.9	9740.0	12038.9	12179.8	9702.8	5002.4	1685.9	799.0	607.4
82.5°	2490.5	2656.2	3567.8	4972.0	7265.3	7446.7	5081.3	2621.2	1041.3	485.7	365.1
85°	1634.0	1756.9	2165.9	2367.7	3459.7	3583.6	2487.1	2040.9	687.4	267.1	268.2
87.5°	1175.4	1293.7	1609.2	1405.3	1587.8	1503.3	1353.4	1888.7	276.1	152.1	90.2
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°	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9	5636.9
2.5°	5583.9	5565.9	5525.3	5448.7	5405.8	5369.8	5310.1	5275.1	5259.3	5258.2	5265.0
5°	5445.3	5403.6	5298.8	5170.3	5067.8	4974.2	4858.2	4788.3	4738.7	4709.4	4717.3
7.5°	5284.1	5218.8	5054.2	4849.1	4684.6	4503.2	4324.0	4216.9	4133.6	4071.6	4082.8
10°	5173.7	5083.5	4843.5	4548.3	4274.4	4010.7	3763.9	3616.3	3499.1	3408.9	3415.7
12.5°	5136.5	5014.8	4682.4	4287.9	3903.7	3543.0	3220.7	2994.2	2873.7	2771.1	2779.0
15°	5142.1	4978.7	4547.1	4053.5	3570.1	3115.9	2724.9	2460.1	2296.7	2225.7	2226.8
17.5°	5146.7	4937.0	4405.1	3802.2	3239.9	2717.0	2292.2	2024.0	1869.6	1804.2	1805.3
20°	5132.0	4869.4	4229.3	3513.7	2895.1	2350.8	1939.4	1711.8	1594.6	1543.9	1543.9
22.5°	5112.8	4789.4	4031.0	3224.1	2554.7	2033.0	1687.0	1513.5	1445.8	1412.0	1410.9
25°	5121.9	4729.7	3828.2	2926.6	2241.4	1779.4	1519.1	1404.1	1359.1	1337.7	1336.5
27.5°	5170.3	4701.5	3641.1	2630.2	1967.6	1589.0	1406.4	1325.3	1296.0	1282.4	1282.4
30°	5258.2	4701.5	3446.1	2377.8	1740.0	1448.1	1319.6	1264.4	1244.1	1235.1	1235.1
32.5°	5411.5	4727.4	3257.9	2127.6	1558.5	1337.7	1247.5	1210.3	1194.5	1190.0	1190.0
35°	5675.2	4815.3	3074.2	1891.0	1412.0	1247.5	1178.8	1157.3	1146.1	1145.0	1148.3
37.5°	6045.9	4994.5	2901.8	1716.3	1308.4	1174.3	1121.3	1104.4	1097.6	1103.3	1107.8
40°	6512.5	5237.9	2745.2	1558.5	1229.5	1115.7	1068.3	1057.1	1053.7	1061.6	1068.3
42.5°	7075.9	5567.0	2616.7	1444.7	1168.6	1066.1	1023.2	1009.7	1006.3	1015.4	1024.4
45°	7685.6	5920.9	2526.6	1360.2	1121.3	1028.9	983.8	969.2	962.4	966.9	977.0
47.5°	8240.1	6255.5	2490.5	1300.5	1076.2	997.3	948.9	930.8	919.6	917.3	925.2
50°	8707.7	6504.6	2507.4	1264.4	1040.1	962.4	915.1	894.8	877.9	867.7	873.4
52.5°	9048.1	6661.2	2523.2	1248.6	1012.0	924.1	877.9	858.7	836.2	819.3	819.3
55°	9294.9	6697.3	2488.2	1236.2	990.6	882.4	836.2	818.1	795.6	776.4	774.2
57.5°	9391.8	6595.9	2358.6	1218.2	975.9	842.9	792.2	778.7	759.5	737.0	735.9
60°	9261.0	6282.6	2108.5	1179.9	956.8	810.3	748.3	739.3	730.2	708.8	707.7
62.5°	8735.9	5595.2	1785.0	1102.1	918.4	775.3	707.7	712.2	713.3	698.7	696.4
65°	7783.7	4650.8	1469.5	1000.7	861.0	733.6	666.0	687.4	699.8	697.6	694.2
67.5°	6399.8	3619.7	1245.2	893.6	785.5	676.2	620.9	645.7	655.9	663.8	661.5
70°	4750.0	2552.5	1030.0	781.0	694.2	608.5	562.3	574.7	568.0	577.0	580.4
72.5°	2648.3	1531.5	839.6	668.3	599.5	529.7	497.0	494.7	480.1	480.1	480.1
74°	1589.0	1123.5	738.1	598.4	542.0	477.8	449.6	439.5	426.0	427.1	426.0
75°	1277.9	965.8	677.3	552.2	501.5	447.4	419.2	405.7	395.5	395.5	394.4
77.5°	806.9	733.6	545.4	439.5	401.2	368.5	349.3	331.3	331.3	330.2	329.1
80°	609.7	583.7	424.8	332.4	307.6	282.9	270.5	262.6	262.6	266.0	264.8
82.5°	418.1	439.5	298.6	232.1	219.7	201.7	199.5	200.6	197.2	192.7	191.6
85°	305.4	330.2	201.7	146.5	134.1	122.8	131.8	136.4	130.7	120.6	116.1
87.5°	117.2	216.4	108.2	60.9	56.3	48.5	56.3	58.6	63.1	49.6	50.7
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)