

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: P647656

Luminaire Tested: **GALN-SA9D-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA 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: 44941.8 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

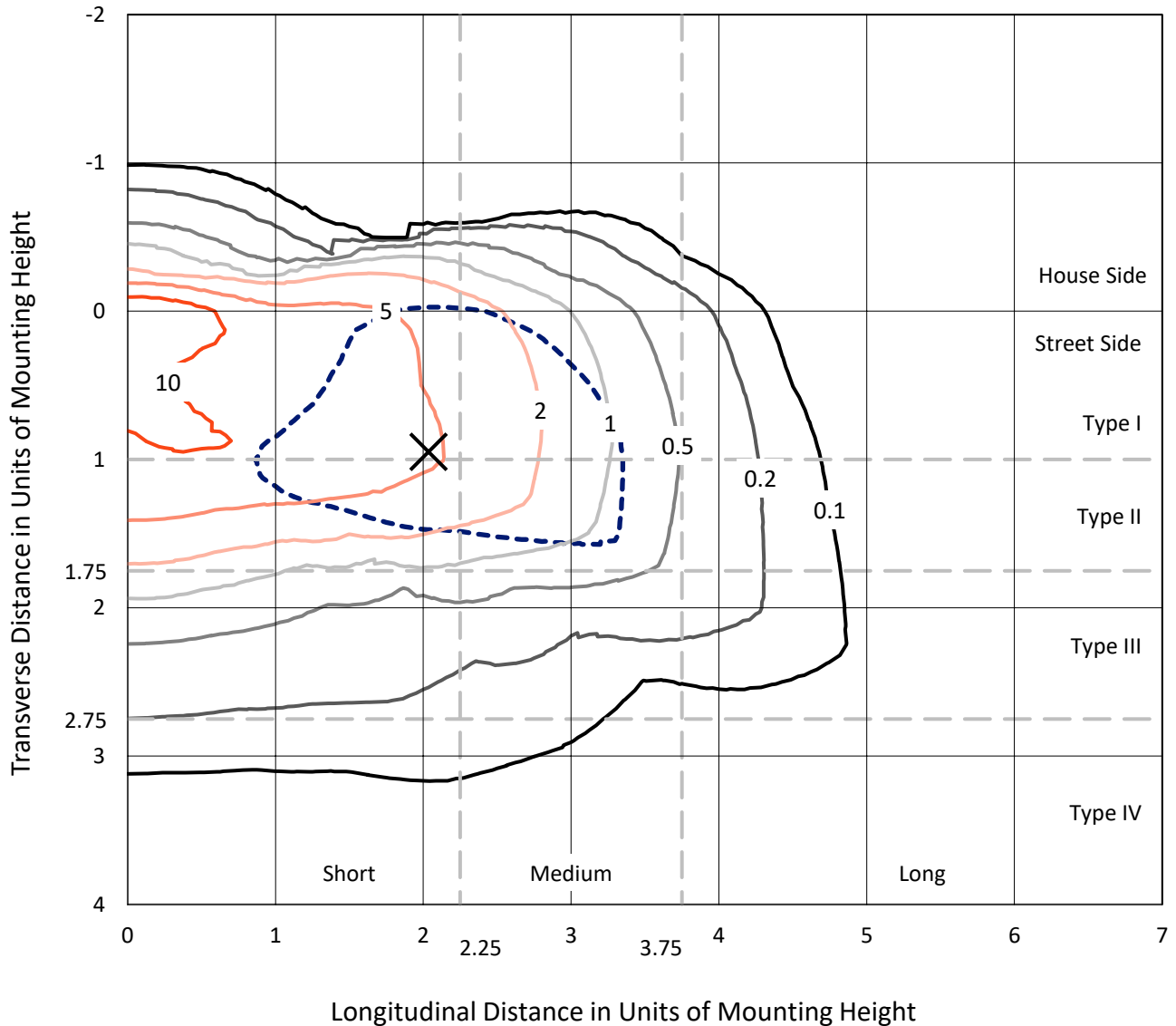
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

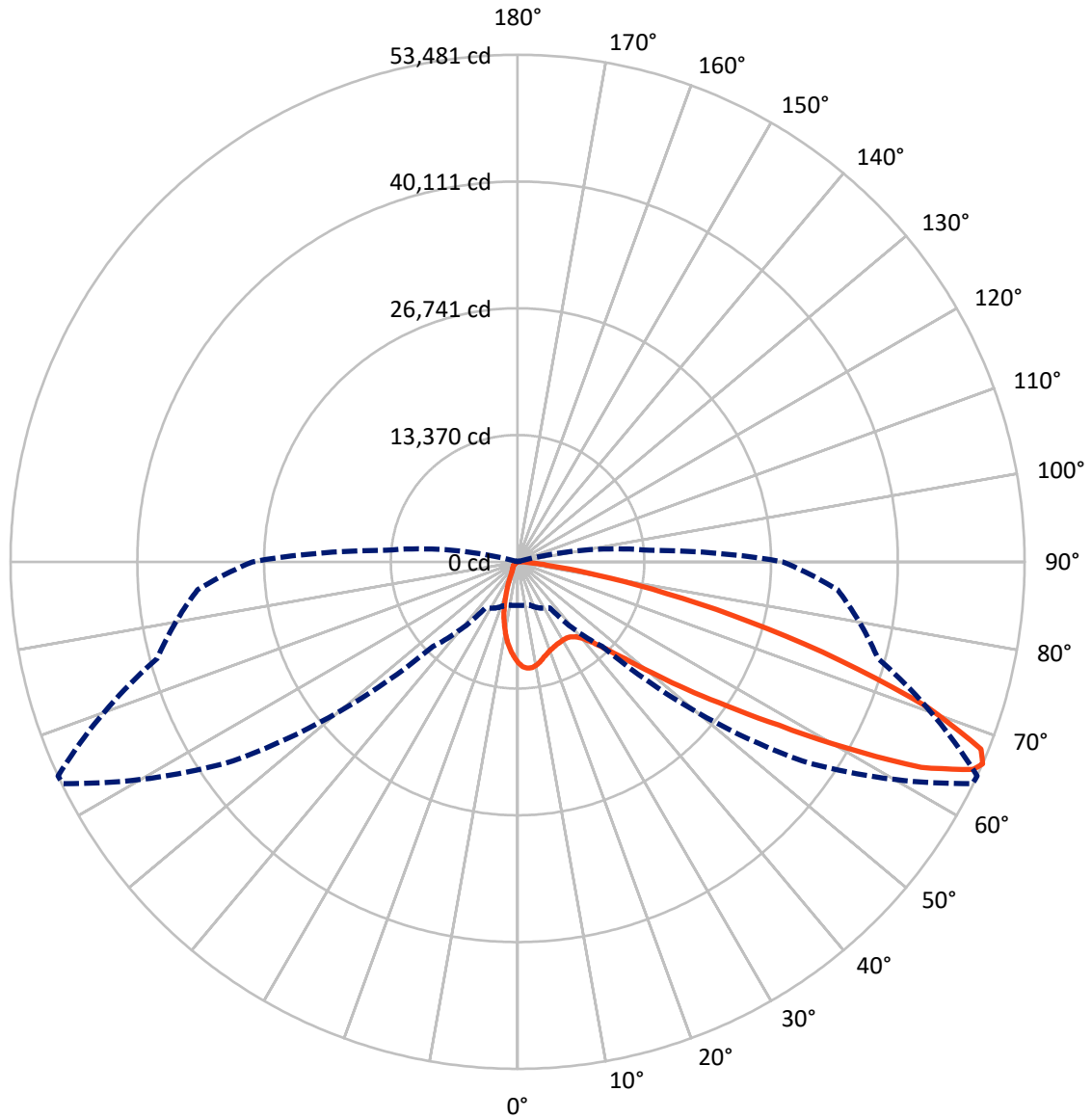
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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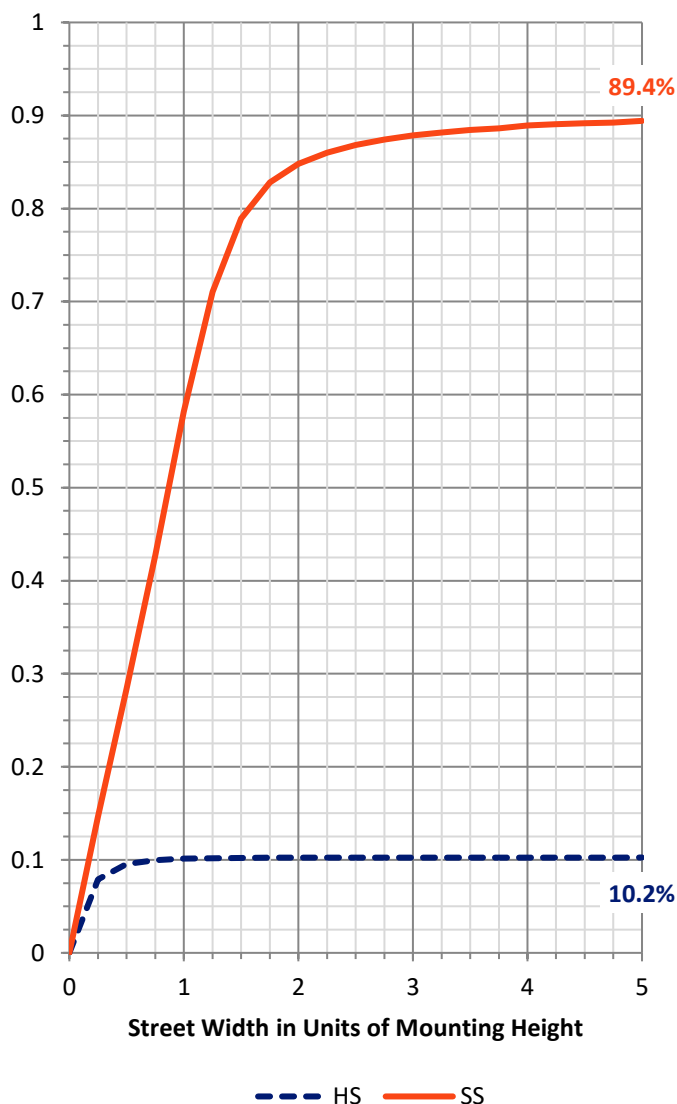
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4647.6	0.0	4647.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	40294.2	0.0	40294.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	44941.8	0.0	44941.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.6	1.9
10°-20°	1899.1	4.2
20°-30°	2720.5	6.1
30°-40°	3973.5	8.8
40°-50°	6662.8	14.8
50°-60°	11119.2	24.7
60°-70°	11802.7	26.3
70°-80°	5345.4	11.9
80°-90°	546.9	1.2
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°	44941.8	100.0
0°-180°	44941.8	100.0

Coefficient of Utilization

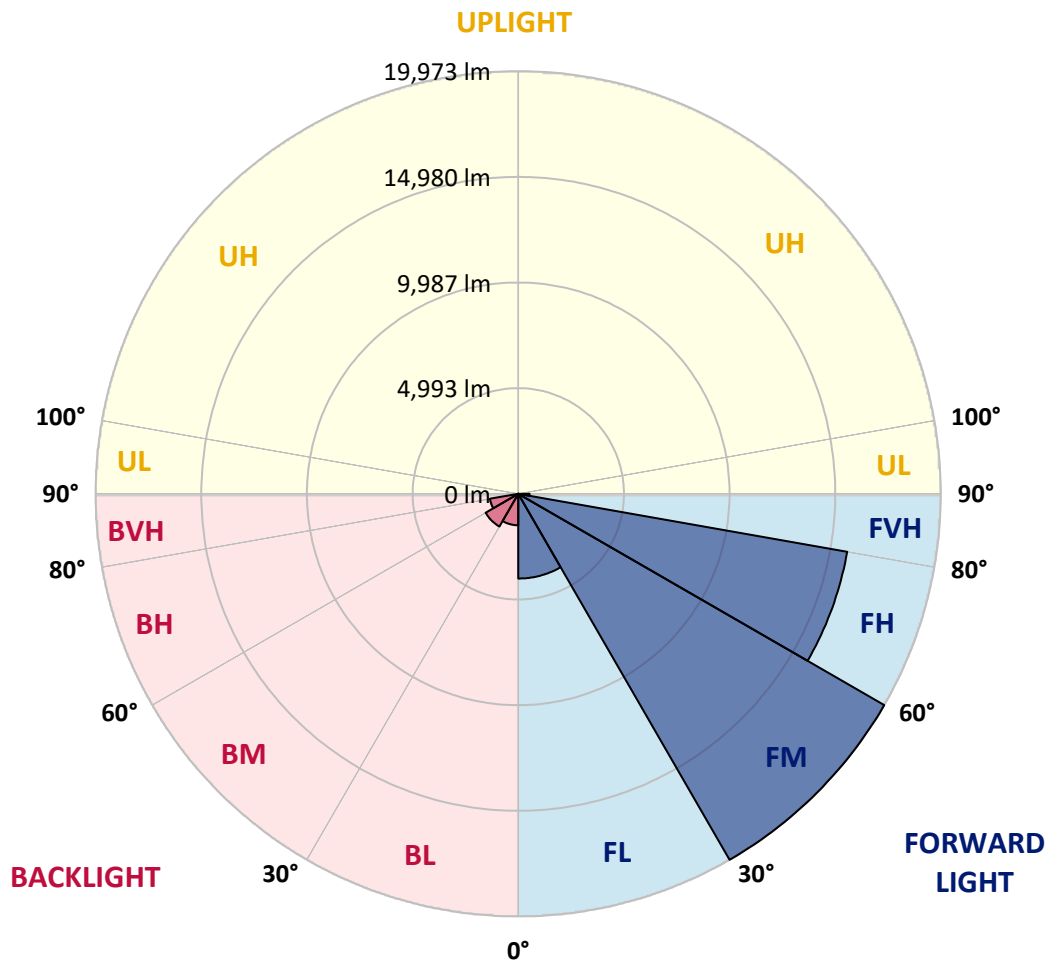


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4004.5	8.9			
FM (30°-60°)	19973.2	44.4			
FH (60°-80°)	15787.0	35.1			G5
FVH (80°-90°)	529.5	1.2			G4/750
BL (0°-30°)	1486.7	3.3	B3/2500		
BM (30°-60°)	1782.4	4.0	B2/2500		
BH (60°-80°)	1361.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	17.4	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-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3
2.5°	11231.0	11243.2	11258.4	11279.7	11294.8	11249.3	11185.5	11112.6	11097.5	10942.7	10754.5
5°	10630.1	10648.3	10781.8	10854.7	11018.6	11167.3	11261.4	11273.6	11267.5	11121.8	10821.3
7.5°	9774.0	9825.6	9956.2	10083.7	10390.3	10672.5	11006.5	11240.2	11255.3	11215.9	10842.5
10°	9079.0	9112.3	9179.1	9431.1	9686.0	10117.1	10584.5	11024.6	11061.0	11218.9	10824.3
12.5°	8535.6	8584.2	8666.2	8860.4	9167.0	9573.7	10104.9	10696.8	10772.7	11161.3	10772.7
15°	8156.2	8180.5	8262.5	8453.7	8751.1	9127.5	9664.8	10353.8	10420.6	11085.4	10763.6
17.5°	7977.1	8004.4	8062.1	8213.8	8459.7	8808.8	9333.9	10077.6	10162.6	11036.8	10797.0
20°	8025.7	8049.9	8053.0	8131.9	8298.9	8593.3	9091.1	9819.6	9928.8	11006.5	10851.7
22.5°	8301.9	8304.9	8268.5	8232.1	8289.8	8502.2	8942.3	9655.6	9768.0	11000.4	10915.4
25°	8714.7	8723.8	8663.1	8535.6	8420.2	8529.5	8909.0	9549.5	9649.6	10985.2	10954.9
27.5°	9285.4	9282.3	9264.1	9051.6	8723.8	8651.0	8936.3	9491.8	9576.8	10942.7	10970.0
30°	10083.7	10059.4	10019.9	9780.1	9279.3	8945.4	9051.6	9455.4	9534.3	10882.0	10930.5
32.5°	10869.8	10960.9	10954.9	10727.2	10101.9	9470.5	9291.4	9503.9	9561.6	10842.5	10872.9
35°	11786.6	11783.5	12017.2	11932.2	11200.7	10141.3	9701.2	9664.8	9710.3	10869.8	10845.6
37.5°	12636.4	12715.4	13079.6	13167.6	12499.9	11088.4	10280.9	10010.8	10026.0	11055.0	10912.4
40°	13695.8	13847.6	14390.9	14685.4	14096.5	12493.8	11137.0	10645.2	10648.3	11510.3	11164.2
42.5°	15061.8	15301.5	15808.5	16300.3	15984.6	14157.2	12421.0	11649.9	11643.9	12311.7	11741.0
45°	16722.1	16889.1	17465.8	18245.9	18045.6	16479.3	14290.8	13207.1	13128.2	13626.0	12763.9
47.5°	18154.9	18382.5	18968.3	19857.7	20768.4	19314.4	16524.8	15347.1	15295.5	15717.4	14518.5
50°	18780.2	18980.5	19596.7	20844.2	23051.0	23035.9	19851.6	18470.6	18382.5	18610.2	17232.1
52.5°	18094.2	18282.3	18904.6	20458.8	24125.6	27570.8	24671.9	22389.3	22283.0	21991.7	20474.0
55°	15744.7	15899.5	16819.3	18604.1	23712.8	30594.0	31313.4	27230.8	26818.0	25685.8	24143.7
57.5°	12536.3	12457.4	13028.0	15101.3	21290.5	31607.8	38131.0	33262.2	32524.6	28879.0	27249.0
60°	8687.4	8930.2	9160.9	10526.8	16008.8	29850.4	42371.5	40844.6	39873.3	32020.7	30223.7
62.5°	6386.5	6547.4	6699.2	7330.5	10065.5	23834.1	43121.2	48633.5	47771.5	35356.6	33061.9
65°	5051.0	5063.1	5123.8	5746.0	6632.4	15498.9	39518.2	53025.8	52804.2	38568.1	34212.2
66°	4601.7	4604.7	4698.9	5366.6	5952.4	12621.3	36631.5	53359.7	53481.1	39339.1	33875.3
67.5°	4022.0	4009.8	4146.4	4823.3	5421.3	9100.2	31465.2	52005.9	52725.3	39931.0	32664.2
70°	3117.4	3102.2	3269.2	4046.2	4993.3	6070.8	20914.1	44654.1	45813.6	38719.8	28900.3
72.5°	2076.2	2088.3	2373.7	3193.2	4765.7	5345.4	12581.8	33969.4	35608.6	31975.1	22735.3
75°	1211.1	1232.4	1557.2	2373.7	4137.3	5096.5	7121.1	24222.7	25269.9	22079.7	14163.3
77.5°	634.4	643.5	871.2	1566.3	3172.0	4732.2	4744.4	15474.6	15966.3	10730.2	5606.4
80°	336.9	327.8	467.5	944.0	2182.5	4155.5	3848.9	8192.6	8517.4	3187.2	1417.5
82.5°	127.5	139.6	248.9	619.2	1290.1	2983.9	3314.7	3621.3	3508.9	701.2	594.9
85°	24.3	30.4	106.3	367.3	649.6	1247.6	2443.5	1775.7	1645.2	264.1	343.0
87.5°	3.1	6.1	30.4	88.0	94.1	422.0	722.4	491.7	424.9	97.2	142.7
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°	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3
2.5°	10663.4	10581.5	10308.3	10038.1	9761.9	9513.0	9343.1	9066.8	8997.0	8896.8	8839.1
5°	10642.2	10450.9	9925.9	9352.2	8817.9	8241.2	7801.0	7376.1	7148.4	7033.1	6990.5
7.5°	10581.5	10278.0	9458.4	8559.9	7703.9	6841.9	6092.1	5521.4	5154.2	4902.2	4732.2
10°	10460.1	10041.2	8915.0	7679.6	6386.5	5248.2	4298.1	3575.7	3017.2	2841.2	2847.2
12.5°	10335.6	9777.1	8307.9	6702.2	5099.5	3663.7	2656.0	2085.4	1818.2	1730.2	1712.0
15°	10220.3	9525.2	7713.0	5755.1	3797.3	2373.7	1712.0	1511.7	1438.8	1423.7	1420.6
17.5°	10159.6	9291.4	7078.6	4671.5	2649.9	1611.8	1372.0	1317.4	1296.1	1280.9	1274.9
20°	10108.0	9088.0	6471.5	3657.7	1812.2	1320.4	1229.3	1177.7	1141.3	1126.1	1117.0
22.5°	10071.6	8878.6	5843.2	2832.0	1387.2	1171.7	1089.7	1022.9	971.3	953.1	941.0
25°	10016.9	8647.9	5208.8	2070.2	1168.6	1041.2	947.0	868.1	801.3	768.0	761.9
27.5°	9938.0	8386.9	4513.7	1532.9	1044.2	925.8	810.5	713.3	646.5	610.1	613.2
30°	9810.5	8113.7	3818.5	1217.2	944.0	807.4	682.9	588.9	525.2	497.8	494.8
32.5°	9658.7	7782.9	3181.1	1044.2	852.9	701.2	570.7	488.7	440.1	418.9	415.9
35°	9516.0	7448.9	2531.5	938.0	758.9	604.1	479.6	409.7	373.3	355.2	358.1
37.5°	9437.1	7151.5	1973.0	852.9	682.9	519.1	412.8	352.1	318.7	303.6	300.5
40°	9488.7	6908.6	1569.3	777.0	598.0	446.2	355.2	303.6	270.1	248.9	248.9
42.5°	9731.6	6802.4	1265.8	704.2	519.1	385.5	309.6	261.1	224.6	203.3	206.4
45°	10472.2	6914.7	1059.4	637.4	446.2	333.9	267.1	215.5	182.1	166.9	163.9
47.5°	11701.5	7336.6	916.7	567.6	382.5	285.3	224.6	179.1	145.7	133.6	130.5
50°	13850.6	8207.8	810.5	497.8	324.8	242.8	185.2	142.7	115.3	103.2	103.2
52.5°	16807.2	10108.0	734.6	418.9	273.2	206.4	151.7	115.3	91.1	82.0	78.9
55°	19897.2	12111.4	695.1	352.1	227.6	170.0	121.4	91.1	69.8	60.7	57.7
57.5°	22868.8	13683.7	649.6	285.3	182.1	130.5	94.1	69.8	48.5	42.5	39.5
60°	25719.1	14955.5	552.5	227.6	142.7	94.1	69.8	48.5	33.4	27.3	27.3
62.5°	28268.9	15696.2	434.1	182.1	109.3	66.8	45.5	36.4	24.3	18.2	18.2
65°	28566.3	14733.9	327.8	139.6	78.9	42.5	27.3	27.3	18.2	12.1	12.1
66°	27968.4	13917.4	288.4	127.5	69.8	36.4	24.3	21.2	15.2	9.1	9.1
67.5°	26632.8	12524.2	248.9	109.3	57.7	27.3	18.2	18.2	12.1	6.1	6.1
70°	23011.5	10229.3	197.3	82.0	42.5	21.2	12.1	12.1	9.1	6.1	6.1
72.5°	17538.7	7637.1	160.9	60.7	30.4	15.2	9.1	9.1	9.1	6.1	6.1
75°	10578.5	4113.0	124.4	45.5	27.3	12.1	6.1	9.1	12.1	9.1	6.1
77.5°	3897.5	1399.3	97.2	36.4	21.2	12.1	6.1	6.1	12.1	9.1	9.1
80°	956.1	364.3	69.8	30.4	21.2	12.1	6.1	6.1	12.1	12.1	12.1
82.5°	443.2	154.8	48.5	27.3	21.2	12.1	6.1	6.1	9.1	12.1	12.1
85°	254.9	72.8	39.5	30.4	21.2	12.1	6.1	6.1	9.1	12.1	12.1
87.5°	103.2	36.4	36.4	30.4	24.3	15.2	6.1	6.1	6.1	9.1	9.1
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)