

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: P647498

Luminaire Tested: **GALN-SA6D-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 35159.1 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

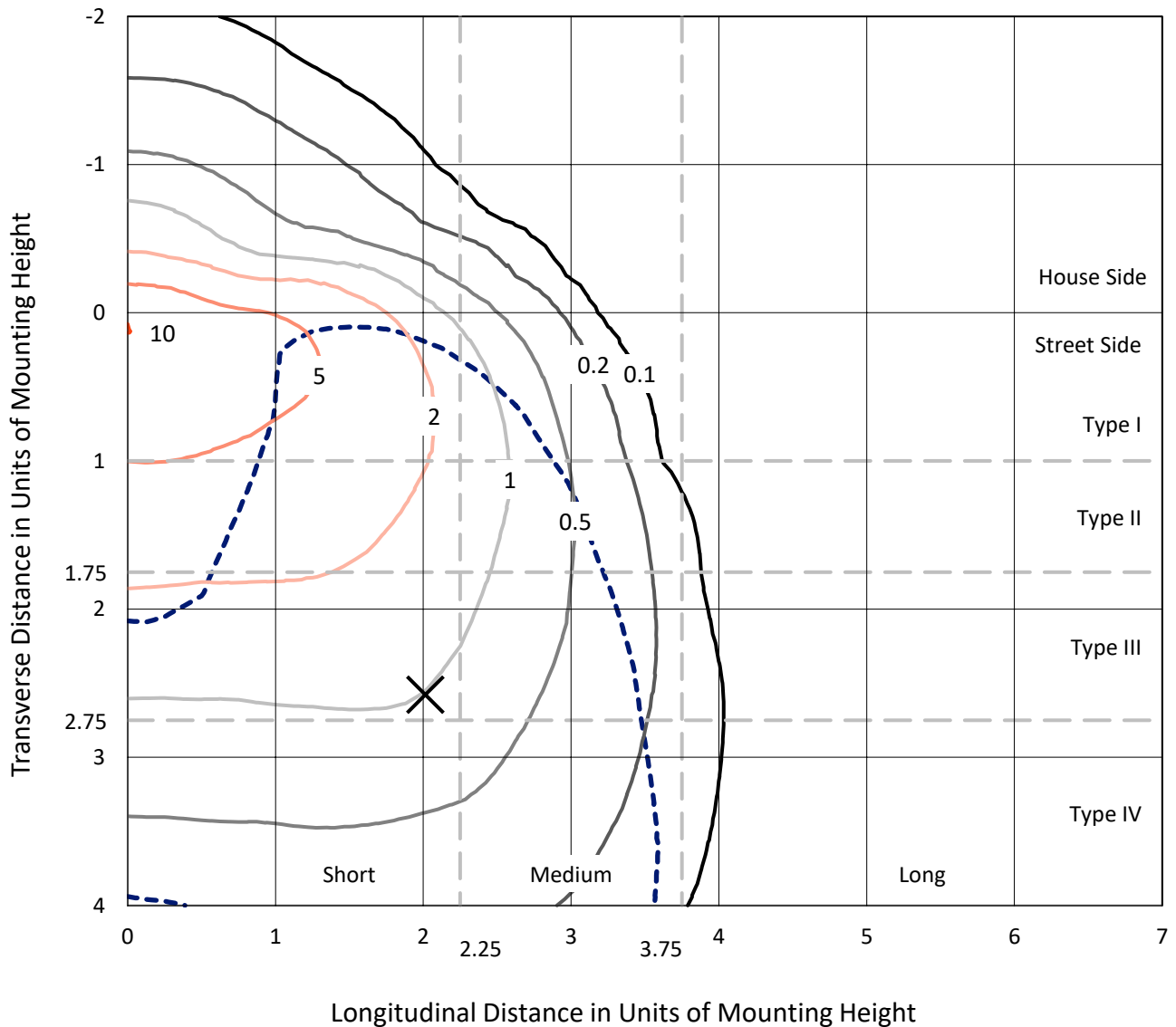
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

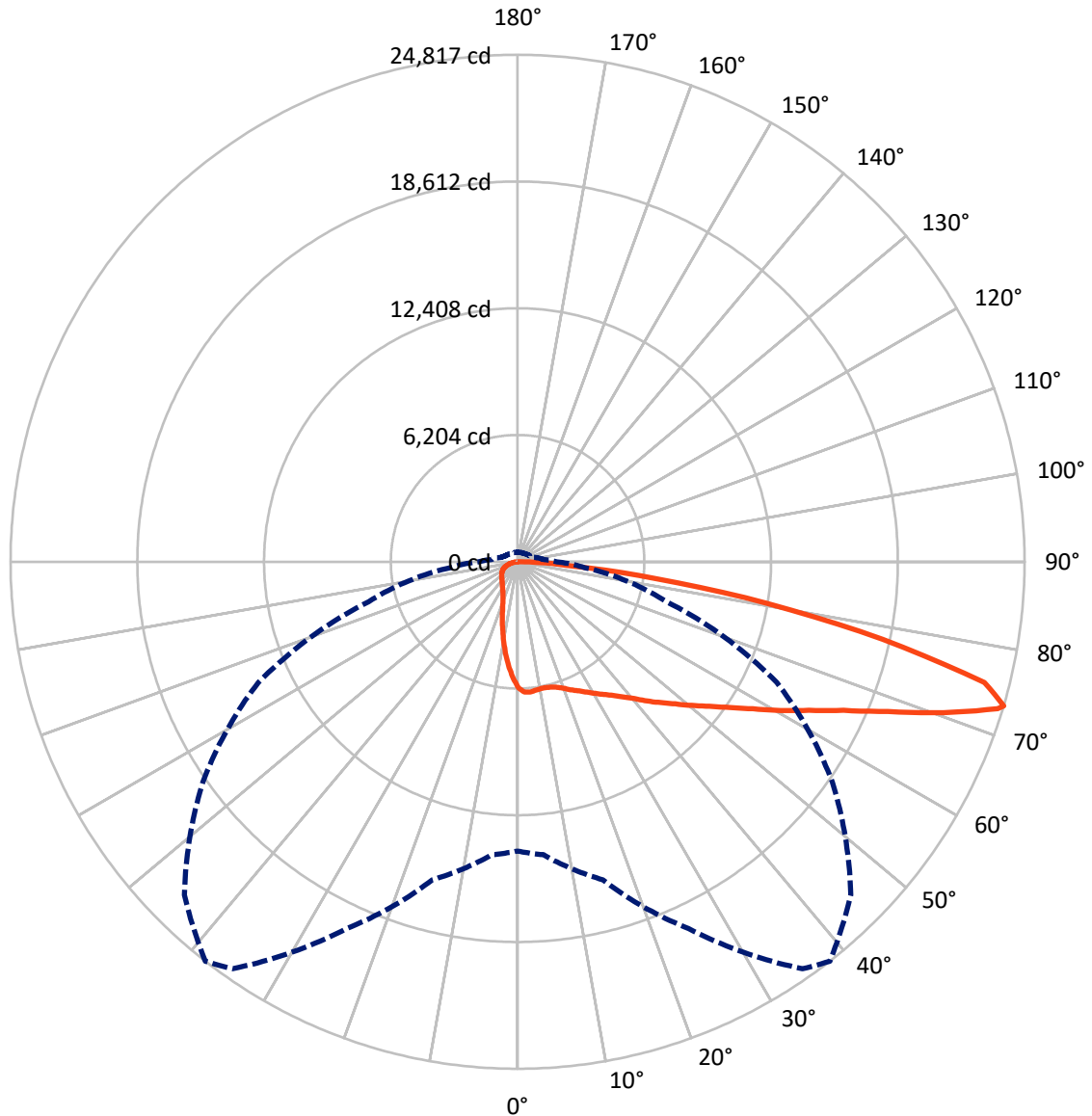
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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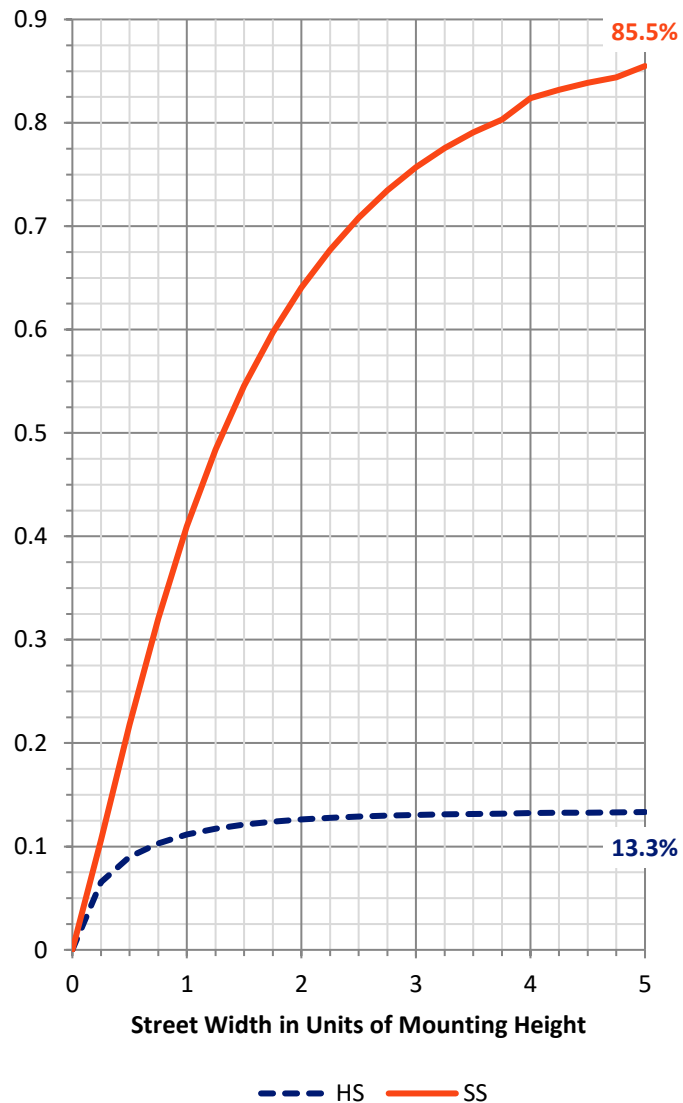
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4726.4	0.0	4726.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30432.6	0.0	30432.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	35159.1	0.0	35159.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.2	1.5
10°-20°	1382.6	3.9
20°-30°	2153.0	6.1
30°-40°	3157.9	9.0
40°-50°	4684.4	13.3
50°-60°	6636.9	18.9
60°-70°	8419.1	23.9
70°-80°	7008.3	19.9
80°-90°	1177.5	3.3
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°	35159.1	100.0
0°-180°	35159.1	100.0

Coefficient of Utilization



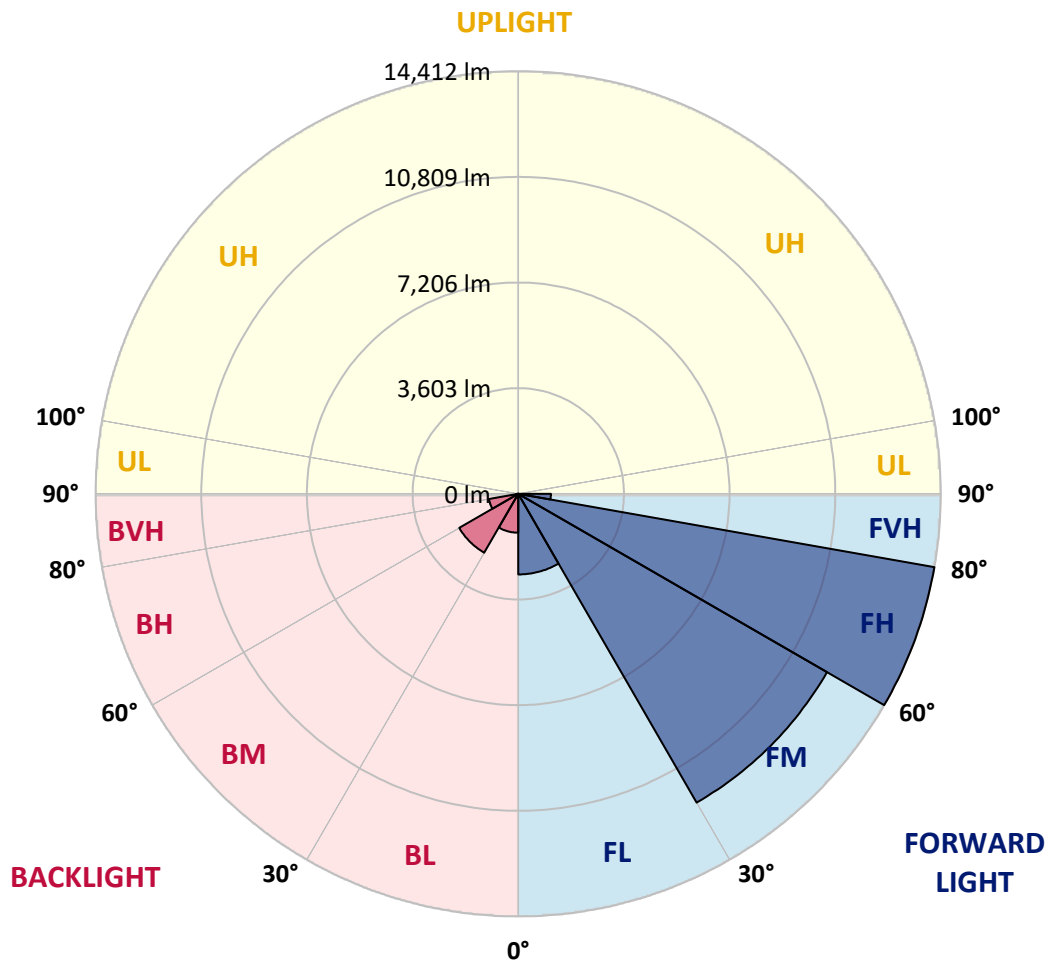
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2748.5	7.8			
FM (30°-60°)	12158.9	34.6			
FH (60°-80°)	14411.5	41.0			G5
FVH (80°-90°)	1113.7	3.2			G5
BL (0°-30°)	1326.3	3.8	B3/2500		
BM (30°-60°)	2320.4	6.6	B2/2500		
BH (60°-80°)	1015.9	2.9	B3/2500		G3/2500
BVH (80°-90°)	63.9	0.2			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°	38°	45°	55°	65°	75°	85°
0°	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9
2.5°	6425.1	6456.8	6440.9	6419.1	6405.2	6391.3	6371.4	6313.9	6268.1	6218.5	6141.1
5°	6472.7	6492.6	6478.6	6450.8	6419.1	6405.2	6367.4	6292.0	6218.5	6135.1	6020.0
7.5°	6444.9	6452.9	6437.0	6403.2	6375.4	6349.6	6305.9	6222.5	6133.2	6031.9	5881.0
10°	6345.6	6375.4	6375.4	6347.6	6319.8	6305.9	6262.2	6182.8	6101.4	5986.3	5807.5
12.5°	6264.2	6295.9	6321.8	6313.9	6311.8	6311.8	6278.1	6218.5	6123.2	6014.1	5801.6
15°	6208.6	6246.3	6301.9	6333.7	6353.6	6359.5	6345.6	6294.0	6196.7	6069.7	5825.4
17.5°	6196.7	6242.4	6343.6	6413.1	6464.8	6462.7	6458.8	6387.3	6280.1	6149.1	5855.2
20°	6250.3	6309.9	6450.8	6560.1	6635.5	6621.6	6599.8	6506.4	6381.4	6234.4	5883.0
22.5°	6411.1	6472.7	6627.5	6746.7	6820.2	6820.2	6754.6	6631.5	6498.5	6333.7	5920.7
25°	6641.5	6709.0	6873.7	6994.9	7028.6	7002.8	6937.3	6788.4	6635.5	6476.7	6000.1
27.5°	6923.4	7004.8	7157.7	7259.0	7249.0	7229.1	7161.6	6971.0	6818.1	6673.2	6135.1
30°	7274.9	7334.4	7493.2	7517.0	7481.3	7477.3	7382.0	7191.5	7048.5	6937.3	6327.7
32.5°	7606.4	7660.0	7787.1	7797.0	7733.5	7741.4	7652.1	7477.3	7395.9	7356.2	6651.4
35°	7957.9	7985.7	8094.8	8082.9	8041.3	8035.3	7999.5	7832.7	7858.6	7930.1	7110.0
37.5°	8251.6	8307.2	8368.9	8378.7	8376.8	8396.7	8420.5	8341.1	8489.9	8714.3	7711.6
40°	8521.7	8569.4	8660.7	8692.5	8769.9	8809.6	8891.0	8893.0	9236.5	9605.8	8452.3
42.5°	8704.4	8785.8	8956.5	9014.1	9202.8	9321.8	9443.0	9572.0	10070.4	10544.9	9325.8
45°	8863.2	8970.4	9254.4	9433.0	9689.2	9834.1	10090.2	10360.3	11077.0	11698.5	10213.4
47.5°	9103.5	9198.8	9524.4	9840.0	10227.2	10394.0	10777.2	11180.3	12117.4	12798.4	11063.2
50°	9437.0	9494.6	9826.2	10340.4	10834.8	11049.2	11555.5	12137.3	13229.3	13884.5	11809.7
52.5°	9863.9	9887.7	10151.8	10836.8	11488.0	11754.1	12425.2	13104.2	14202.2	14827.6	12401.3
55°	10368.2	10328.5	10535.0	11363.0	12234.5	12582.0	13302.8	14083.0	15296.2	15590.1	12832.2
57.5°	10866.6	10805.0	10969.8	12002.3	13155.8	13574.8	14414.6	15091.7	16273.0	16302.8	13134.0
60°	11394.7	11349.0	11545.6	12752.8	14285.6	14781.9	15558.3	16138.0	17218.2	16799.2	13181.6
62.5°	11936.8	11863.3	12143.2	13596.6	15558.3	16009.0	16761.4	17249.9	18145.4	16983.8	12723.0
65°	12462.9	12429.2	12861.9	14599.3	17007.7	17519.9	18250.6	18582.2	18887.9	16705.9	11585.3
67.5°	13022.8	13090.4	13781.3	15937.5	18897.9	19541.2	20329.4	20017.7	19100.3	15389.5	9756.6
70°	13876.6	13920.3	14988.4	17690.7	21334.1	22110.4	22491.6	20527.9	18075.9	12889.7	7334.4
72.5°	14243.9	14436.5	16066.5	19531.2	24101.8	24576.3	23218.3	19390.3	15058.0	8756.0	3853.8
73°	14162.5	14392.8	16116.2	19811.2	24318.3	24816.6	23063.4	18804.5	13997.7	7540.9	3303.9
75°	13147.9	13431.8	15470.9	19576.9	23897.3	23599.5	20573.6	16026.8	9458.9	3428.9	1505.0
77.5°	10374.2	10455.6	12258.4	15808.5	18818.5	18266.5	15397.5	10016.8	3863.8	1274.6	853.8
80°	5204.0	5503.8	6909.5	9055.8	12584.0	12403.3	9719.0	4737.4	1610.2	748.5	565.9
82.5°	2503.7	2716.1	3365.4	4415.7	6953.2	6788.4	4812.8	2589.1	1022.5	436.8	333.6
85°	1612.2	1771.1	2142.4	2106.6	2859.1	2730.0	2162.2	1959.7	605.6	228.3	232.3
87.5°	1064.3	1165.5	1397.8	1117.8	1040.4	941.1	955.0	1104.0	119.1	87.4	31.8
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°	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9	6176.9
2.5°	6109.4	6083.5	5998.2	5914.8	5835.3	5759.9	5710.3	5644.7	5601.0	5612.9	5630.9
5°	5956.4	5898.9	5748.0	5601.0	5462.1	5297.3	5164.3	5057.0	4975.7	4945.8	4939.9
7.5°	5795.6	5698.4	5481.9	5229.7	4993.5	4789.0	4552.8	4435.5	4298.6	4250.9	4235.0
10°	5698.4	5567.3	5263.6	4912.1	4556.7	4217.2	3961.0	3752.6	3564.0	3528.2	3510.3
12.5°	5670.6	5497.8	5088.8	4636.1	4163.6	3746.6	3367.4	3093.4	2910.7	2869.0	2807.4
15°	5654.7	5440.2	4926.0	4358.2	3758.6	3250.2	2851.1	2531.5	2364.7	2253.6	2255.5
17.5°	5640.7	5374.7	4743.3	4054.4	3409.1	2823.3	2382.6	2094.7	1941.8	1882.3	1876.3
20°	5620.9	5297.3	4532.9	3734.7	3010.0	2434.2	2035.1	1820.7	1717.4	1667.8	1665.8
22.5°	5612.9	5221.8	4326.4	3409.1	2656.6	2134.4	1804.8	1653.9	1588.4	1554.6	1554.6
25°	5632.8	5168.2	4110.0	3099.3	2342.9	1878.3	1645.9	1542.7	1505.0	1487.2	1481.2
27.5°	5694.4	5144.4	3895.5	2789.6	2055.0	1703.6	1538.8	1467.3	1439.5	1425.6	1427.6
30°	5811.5	5142.4	3685.0	2483.8	1840.5	1570.5	1453.4	1403.8	1381.9	1373.9	1372.0
32.5°	6000.1	5186.1	3478.6	2231.7	1659.9	1459.4	1373.9	1338.2	1328.3	1322.3	1320.4
35°	6319.8	5309.2	3274.0	2001.3	1520.9	1360.1	1298.5	1280.7	1266.7	1272.7	1274.6
37.5°	6750.6	5521.6	3079.5	1820.7	1415.7	1286.6	1234.9	1219.1	1211.1	1217.1	1223.0
40°	7328.4	5827.4	2916.7	1675.8	1340.2	1225.1	1179.4	1165.5	1157.5	1167.5	1169.5
42.5°	7965.8	6180.8	2781.7	1562.6	1278.6	1173.4	1129.7	1113.9	1107.9	1113.9	1115.9
45°	8621.0	6591.8	2712.2	1481.2	1227.0	1135.7	1090.0	1072.2	1058.3	1054.3	1060.3
47.5°	9266.3	6949.2	2710.2	1431.6	1185.3	1101.9	1052.3	1032.5	1014.6	1004.7	1002.7
50°	9792.4	7233.1	2757.8	1409.7	1149.6	1064.3	1014.6	994.7	970.9	951.0	955.0
52.5°	10189.5	7417.8	2779.6	1399.8	1129.7	1024.5	974.8	957.0	929.2	903.4	903.4
55°	10445.6	7461.4	2726.1	1389.8	1113.9	982.8	929.2	913.3	885.5	859.7	859.7
57.5°	10533.0	7326.5	2533.5	1366.0	1098.0	947.0	883.5	869.7	847.8	822.0	818.0
60°	10330.5	6869.8	2195.9	1294.5	1066.2	909.4	833.9	827.9	820.0	798.2	796.2
62.5°	9550.2	5900.8	1828.6	1201.2	1012.6	869.7	788.2	798.2	804.1	792.2	790.2
65°	8251.6	4790.9	1562.6	1072.2	941.1	814.1	738.6	764.4	780.3	780.3	776.3
67.5°	6693.1	3679.1	1316.4	961.0	851.7	738.6	683.0	702.9	714.8	710.8	720.8
70°	4757.2	2491.8	1072.2	833.9	738.6	653.3	611.5	611.5	603.6	599.6	599.6
72.5°	2307.1	1423.6	869.7	696.9	629.4	557.9	524.1	510.3	494.4	492.4	482.5
73°	1927.9	1276.7	829.9	671.1	603.6	544.0	506.3	484.4	474.5	466.6	464.6
75°	1173.4	968.9	693.0	565.9	514.3	468.5	434.8	415.0	405.0	399.1	397.1
77.5°	772.4	722.7	538.1	432.8	393.1	365.3	351.4	331.6	325.6	317.7	317.7
80°	575.8	551.9	385.2	305.8	282.0	258.1	254.2	250.2	234.3	224.3	220.4
82.5°	371.3	393.1	262.1	204.5	178.7	158.9	160.8	166.8	150.9	137.0	133.0
85°	264.1	283.9	158.9	93.3	75.5	65.5	73.4	65.5	67.5	53.6	43.7
87.5°	43.7	75.5	27.8	11.9	6.0	4.0	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)