

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: P647058

Luminaire Tested: **GALN-SA7C-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647058
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-SA7C-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA 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: 37530.8 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

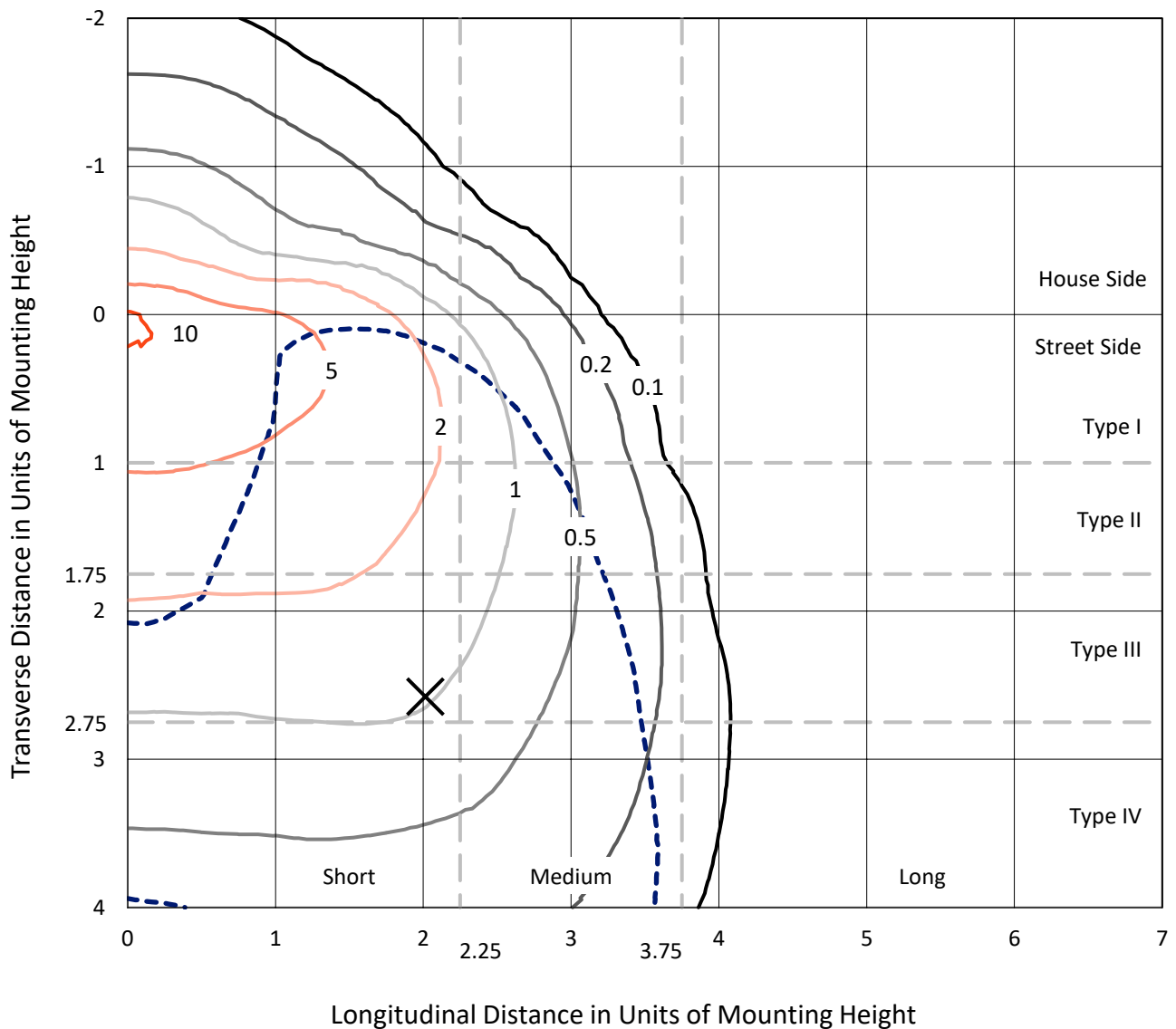
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

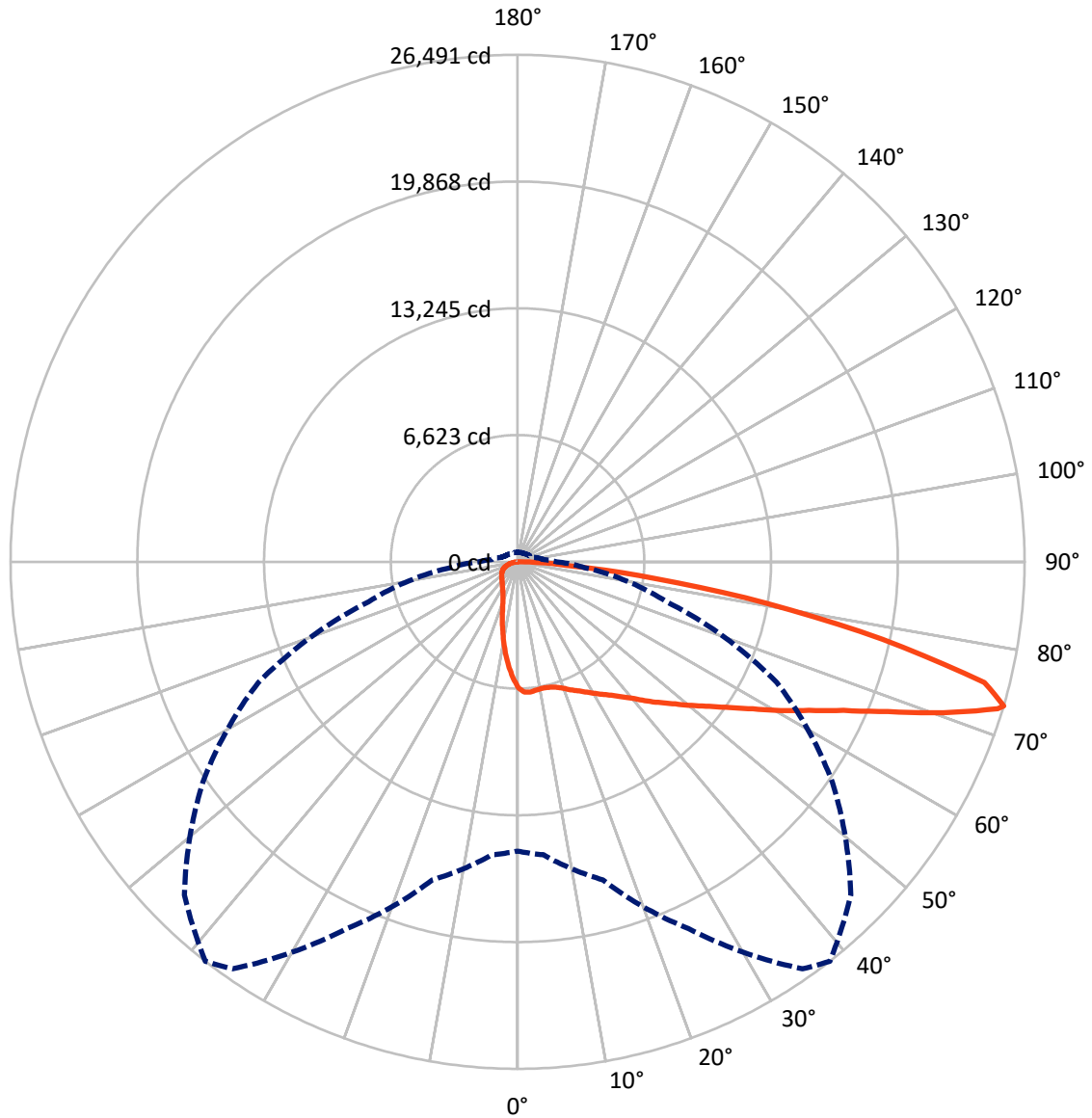
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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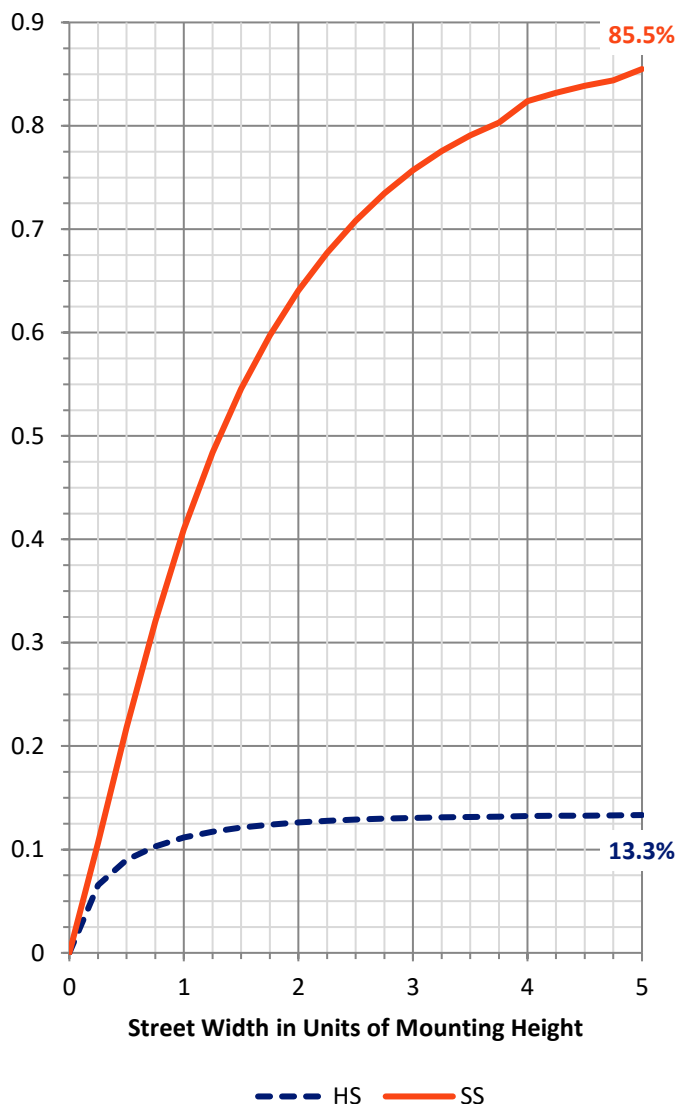
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5045.2	0.0	5045.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32485.5	0.0	32485.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	37530.8	0.0	37530.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.5	1.5
10°-20°	1475.9	3.9
20°-30°	2298.2	6.1
30°-40°	3371.0	9.0
40°-50°	5000.4	13.3
50°-60°	7084.6	18.9
60°-70°	8987.1	23.9
70°-80°	7481.1	19.9
80°-90°	1256.9	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°	37530.8	100.0
0°-180°	37530.8	100.0

Coefficient of Utilization

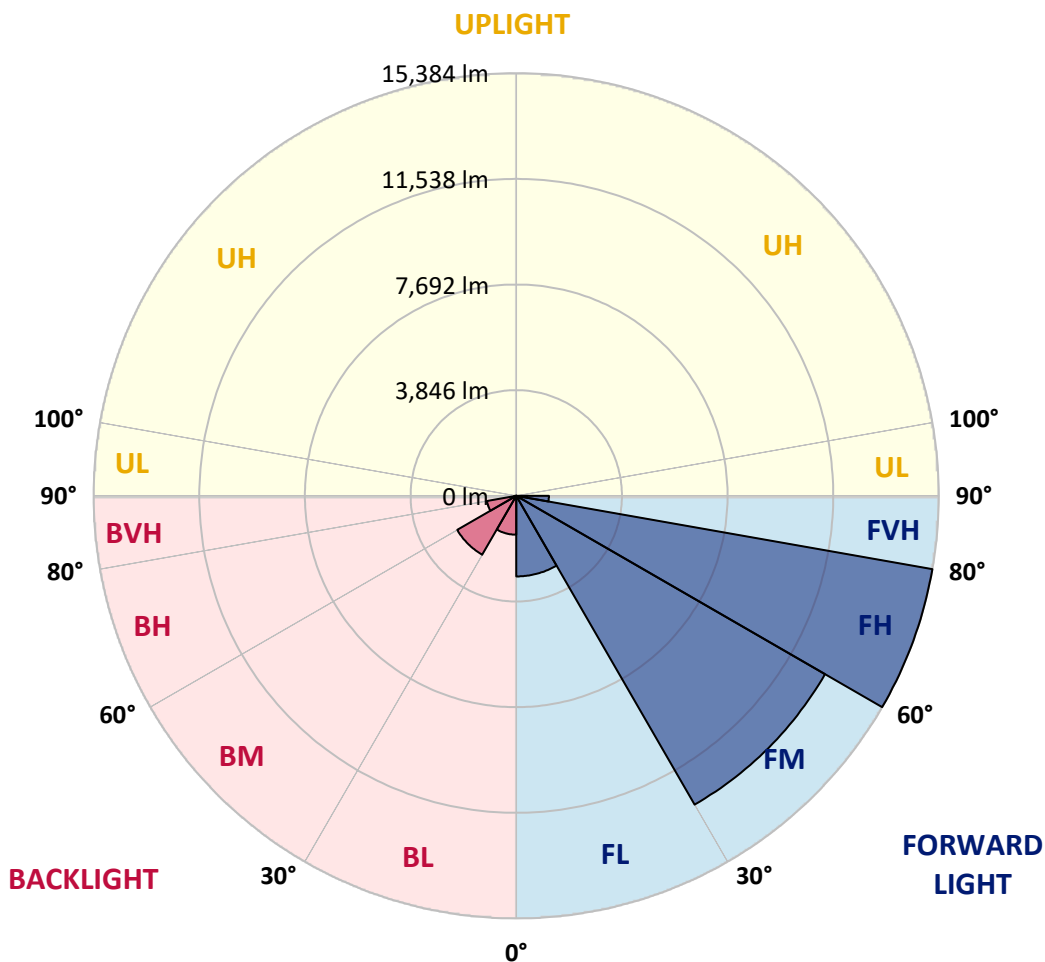


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2933.9	7.8			
FM (30°-60°)	12979.2	34.6			
FH (60°-80°)	15383.7	41.0			G5
FVH (80°-90°)	1188.8	3.2			G5
BL (0°-30°)	1415.7	3.8	B3/2500		
BM (30°-60°)	2476.9	6.6	B2/2500		
BH (60°-80°)	1084.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	68.2	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°	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5
2.5°	6858.5	6892.4	6875.4	6852.1	6837.2	6822.4	6801.2	6739.8	6691.0	6638.0	6555.4
5°	6909.3	6930.5	6915.7	6886.0	6852.1	6837.2	6797.0	6716.4	6638.0	6549.0	6426.1
7.5°	6879.7	6888.1	6871.1	6835.1	6805.4	6777.9	6731.3	6642.3	6546.9	6438.8	6277.7
10°	6773.7	6805.4	6805.4	6775.8	6746.1	6731.3	6684.6	6599.9	6513.0	6390.1	6199.3
12.5°	6686.7	6720.6	6748.2	6739.8	6737.6	6737.6	6701.6	6638.0	6536.3	6419.7	6193.0
15°	6627.4	6667.7	6727.1	6761.0	6782.1	6788.5	6773.7	6718.5	6614.7	6479.1	6218.4
17.5°	6614.7	6663.5	6771.5	6845.7	6900.8	6898.7	6894.5	6818.2	6703.7	6563.8	6250.1
20°	6671.9	6735.5	6886.0	7002.6	7083.1	7068.3	7045.0	6945.4	6811.8	6655.0	6279.8
22.5°	6843.6	6909.3	7074.6	7201.8	7280.2	7280.2	7210.3	7078.9	6936.8	6761.0	6320.1
25°	7089.4	7161.6	7337.4	7466.7	7502.8	7475.2	7405.2	7246.3	7083.1	6913.6	6404.9
27.5°	7390.4	7477.3	7640.5	7748.6	7738.0	7716.8	7644.7	7441.3	7278.1	7123.3	6549.0
30°	7765.6	7829.1	7998.7	8024.1	7986.0	7981.7	7880.0	7676.5	7523.9	7405.2	6754.6
32.5°	8119.5	8176.7	8312.4	8323.0	8255.2	8263.6	8168.3	7981.7	7894.8	7852.5	7100.1
35°	8494.6	8524.3	8640.9	8628.2	8583.6	8577.3	8539.2	8361.1	8388.7	8464.9	7589.6
37.5°	8808.3	8867.6	8933.3	8944.0	8941.9	8963.0	8988.4	8903.6	9062.7	9302.1	8231.8
40°	9096.6	9147.4	9244.9	9278.8	9361.5	9403.9	9490.7	9492.9	9859.5	10253.8	9022.4
42.5°	9291.5	9378.5	9560.7	9622.2	9823.5	9950.7	10080.0	10217.8	10749.7	11256.3	9954.9
45°	9461.1	9575.5	9878.6	10069.4	10342.8	10497.5	10770.9	11059.2	11824.2	12487.6	10902.3
47.5°	9717.6	9819.3	10166.9	10503.9	10917.1	11095.2	11504.2	11934.5	12934.8	13661.8	11809.4
50°	10073.6	10135.1	10489.0	11038.0	11565.7	11794.6	12335.0	12956.0	14121.7	14821.1	12606.3
52.5°	10529.3	10554.7	10836.6	11567.8	12263.0	12546.9	13263.3	13988.1	15160.2	15827.8	13237.9
55°	11067.6	11025.2	11245.7	12129.5	13059.9	13430.8	14200.1	15033.1	16328.1	16641.7	13697.8
57.5°	11599.6	11533.9	11709.8	12811.9	14043.3	14490.5	15387.0	16109.8	17370.8	17402.6	14020.0
60°	12163.4	12114.6	12324.4	13613.0	15249.2	15779.1	16607.7	17226.6	18379.6	17932.4	14070.8
62.5°	12742.0	12663.5	12962.4	14513.8	16607.7	17088.9	17892.2	18413.5	19369.4	18129.5	13581.2
65°	13303.6	13267.5	13729.6	15584.1	18155.0	18701.8	19481.7	19835.7	20162.0	17832.8	12366.9
67.5°	13901.3	13973.3	14710.9	17012.6	20172.7	20859.4	21700.8	21368.0	20388.9	16427.7	10414.8
70°	14812.6	14859.2	15999.5	18884.0	22773.2	23601.9	24008.8	21912.7	19295.2	13759.3	7829.1
72.5°	15204.7	15410.3	17150.4	20848.7	25727.7	26234.2	24784.5	20698.3	16073.7	9346.7	4113.8
73°	15117.9	15363.7	17203.4	21147.6	25958.6	26490.6	24619.2	20073.1	14941.9	8049.6	3526.7
75°	14034.8	14337.9	16514.5	20897.5	25509.4	25191.5	21961.4	17108.0	10096.9	3660.2	1606.6
77.5°	11074.0	11160.9	13085.3	16874.8	20087.9	19498.7	16436.1	10692.5	4124.4	1360.7	911.3
80°	5555.0	5875.0	7375.5	9666.7	13432.9	13240.0	10374.6	5056.9	1718.8	799.1	604.0
82.5°	2672.6	2899.4	3592.4	4713.6	7422.2	7246.3	5137.5	2763.8	1091.5	466.3	356.0
85°	1721.0	1890.6	2286.8	2248.7	3052.0	2914.2	2308.0	2091.9	646.4	243.7	248.0
87.5°	1136.0	1244.1	1492.1	1193.2	1110.6	1004.6	1019.5	1178.4	127.2	93.3	33.9
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°	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5	6593.5
2.5°	6521.5	6493.9	6402.7	6313.7	6229.0	6148.4	6095.4	6025.5	5978.9	5991.6	6010.7
5°	6358.3	6296.8	6135.7	5978.9	5830.5	5654.6	5512.6	5398.2	5311.2	5279.5	5273.1
7.5°	6186.6	6082.7	5851.8	5582.6	5330.4	5112.1	4859.8	4734.8	4588.5	4537.6	4520.7
10°	6082.7	5942.9	5618.6	5243.4	4864.1	4501.6	4228.3	4005.7	3804.4	3766.2	3747.1
12.5°	6053.1	5868.7	5432.1	4948.9	4444.4	3999.3	3594.5	3302.1	3107.1	3062.5	2996.9
15°	6036.1	5807.2	5258.3	4652.1	4012.1	3469.5	3043.5	2702.3	2524.2	2405.5	2407.6
17.5°	6021.3	5737.3	5063.3	4327.9	3639.1	3013.8	2543.3	2236.0	2072.8	2009.2	2002.8
20°	6000.1	5654.6	4838.6	3986.6	3213.0	2598.4	2172.4	1943.5	1833.3	1780.3	1778.2
22.5°	5991.6	5574.1	4618.2	3639.1	2835.8	2278.4	1926.6	1765.5	1695.5	1659.5	1659.5
25°	6012.8	5516.9	4387.2	3308.4	2500.9	2004.9	1757.0	1646.8	1606.6	1587.5	1581.1
27.5°	6078.5	5491.4	4158.3	2977.7	2193.6	1818.4	1642.6	1566.2	1536.6	1521.8	1523.9
30°	6203.6	5489.3	3933.6	2651.4	1964.7	1676.5	1551.4	1498.4	1475.1	1466.6	1464.5
32.5°	6404.9	5535.9	3713.2	2382.2	1771.9	1557.8	1466.6	1428.5	1417.9	1411.5	1409.4
35°	6746.1	5667.4	3494.9	2136.3	1623.5	1451.8	1386.1	1367.0	1352.2	1358.6	1360.7
37.5°	7206.0	5894.1	3287.2	1943.5	1511.1	1373.4	1318.3	1301.3	1292.8	1299.2	1305.6
40°	7822.8	6220.5	3113.4	1788.8	1430.6	1307.7	1258.9	1244.1	1235.7	1246.2	1248.3
42.5°	8503.1	6597.8	2969.3	1667.9	1364.9	1252.6	1206.0	1189.0	1182.6	1189.0	1191.1
45°	9202.5	7036.5	2895.1	1581.1	1309.8	1212.3	1163.5	1144.5	1129.6	1125.4	1131.7
47.5°	9891.3	7418.0	2893.0	1528.1	1265.3	1176.3	1123.3	1102.1	1083.0	1072.4	1070.3
50°	10453.0	7721.1	2943.8	1504.8	1227.1	1136.0	1083.0	1061.8	1036.4	1015.2	1019.5
52.5°	10876.9	7918.2	2967.2	1494.2	1206.0	1093.6	1040.6	1021.6	991.9	964.3	964.3
55°	11150.2	7964.8	2909.9	1483.6	1189.0	1049.1	991.9	974.9	945.2	917.7	917.7
57.5°	11243.5	7820.7	2704.4	1458.2	1172.1	1010.9	943.1	928.3	905.0	877.4	873.2
60°	11027.4	7333.2	2344.1	1381.8	1138.1	970.7	890.2	883.8	875.3	852.0	849.9
62.5°	10194.4	6298.9	1952.0	1282.2	1080.9	928.3	841.4	852.0	858.4	845.6	843.5
65°	8808.3	5114.2	1667.9	1144.5	1004.6	869.0	788.4	816.0	833.0	833.0	828.7
67.5°	7144.6	3927.3	1405.2	1025.8	909.2	788.4	729.1	750.3	763.0	758.7	769.4
70°	5078.1	2659.9	1144.5	890.2	788.4	697.3	652.8	652.8	644.3	640.1	640.1
72.5°	2462.8	1519.6	928.3	743.9	671.9	595.5	559.5	544.7	527.7	525.6	515.1
73°	2058.0	1362.8	885.9	716.4	644.3	580.8	540.4	517.2	506.5	498.1	496.0
75°	1252.6	1034.3	739.7	604.0	549.0	500.2	464.2	442.9	432.4	426.0	423.9
77.5°	824.4	771.5	574.3	462.0	419.6	390.0	375.1	353.9	347.6	339.1	339.1
80°	614.7	589.2	411.2	326.4	301.0	275.5	271.3	267.1	250.1	239.5	235.3
82.5°	396.4	419.6	279.8	218.3	190.7	169.5	171.7	178.1	161.1	146.3	142.0
85°	281.9	303.1	169.5	99.6	80.6	69.9	78.5	69.9	72.0	57.2	46.6
87.5°	46.6	80.6	29.7	12.7	6.3	4.2	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)