

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: P533862

Luminaire Tested: **GALN-SA9B-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45031 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

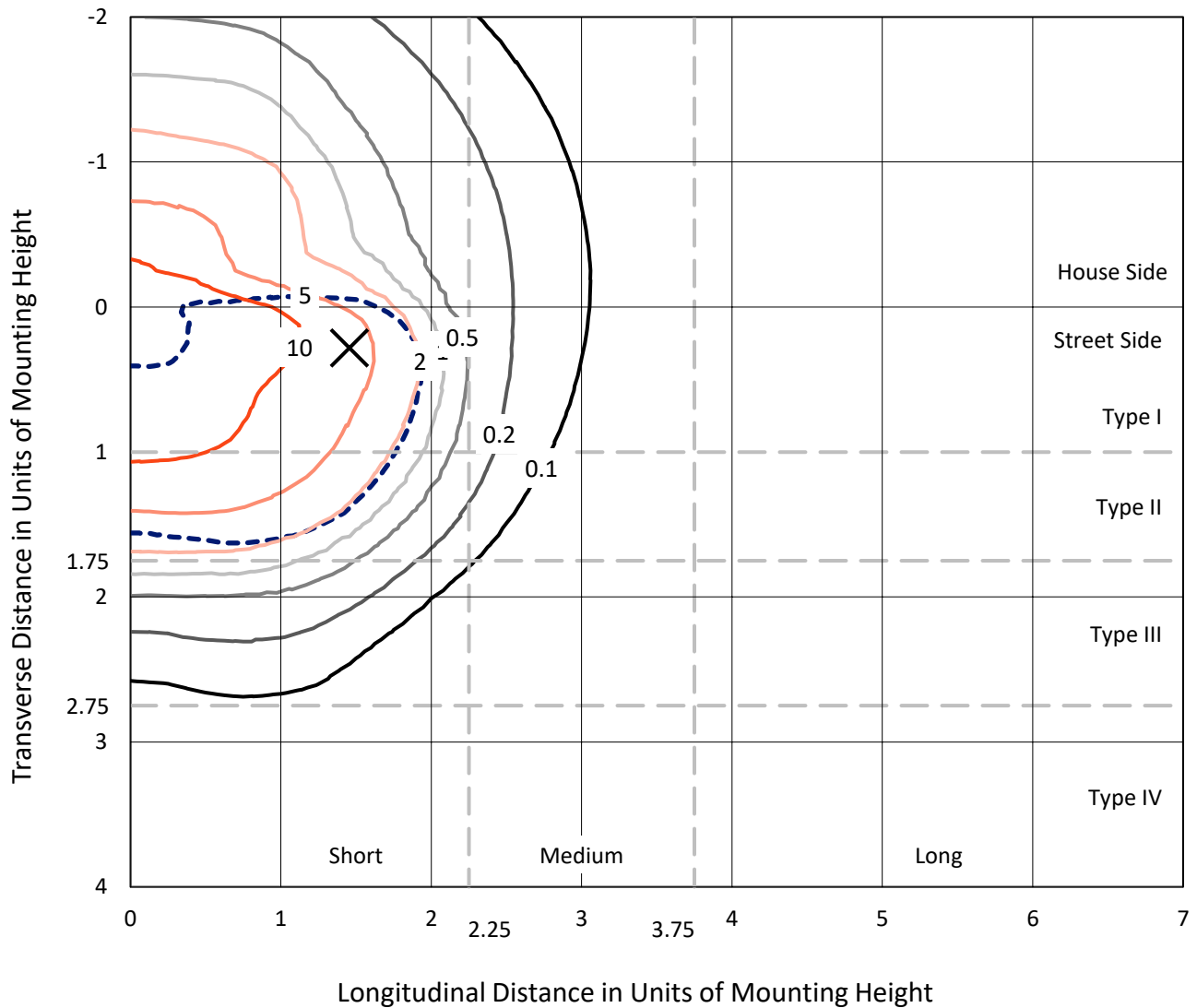
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

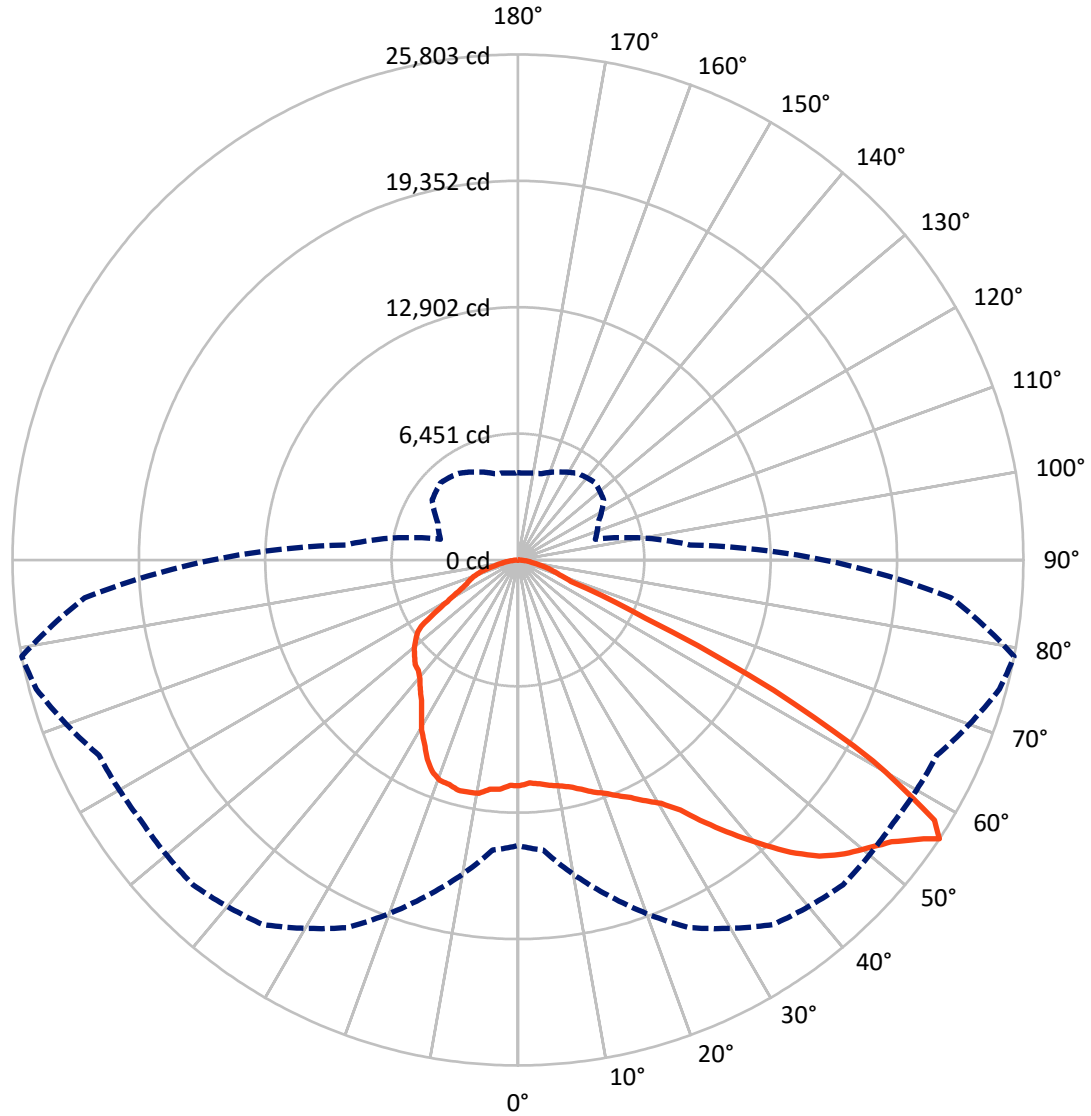
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13298.6	0.0	13298.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	31732.4	0.0	31732.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	45031.0	0.0	45031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.5	2.3
10°-20°	2866.8	6.4
20°-30°	4904.6	10.9
30°-40°	7516.9	16.7
40°-50°	10159.0	22.6
50°-60°	11668.0	25.9
60°-70°	5318.6	11.8
70°-80°	1311.3	2.9
80°-90°	238.3	0.5
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°	45031.0	100.0
0°-180°	45031.0	100.0

Coefficient of Utilization



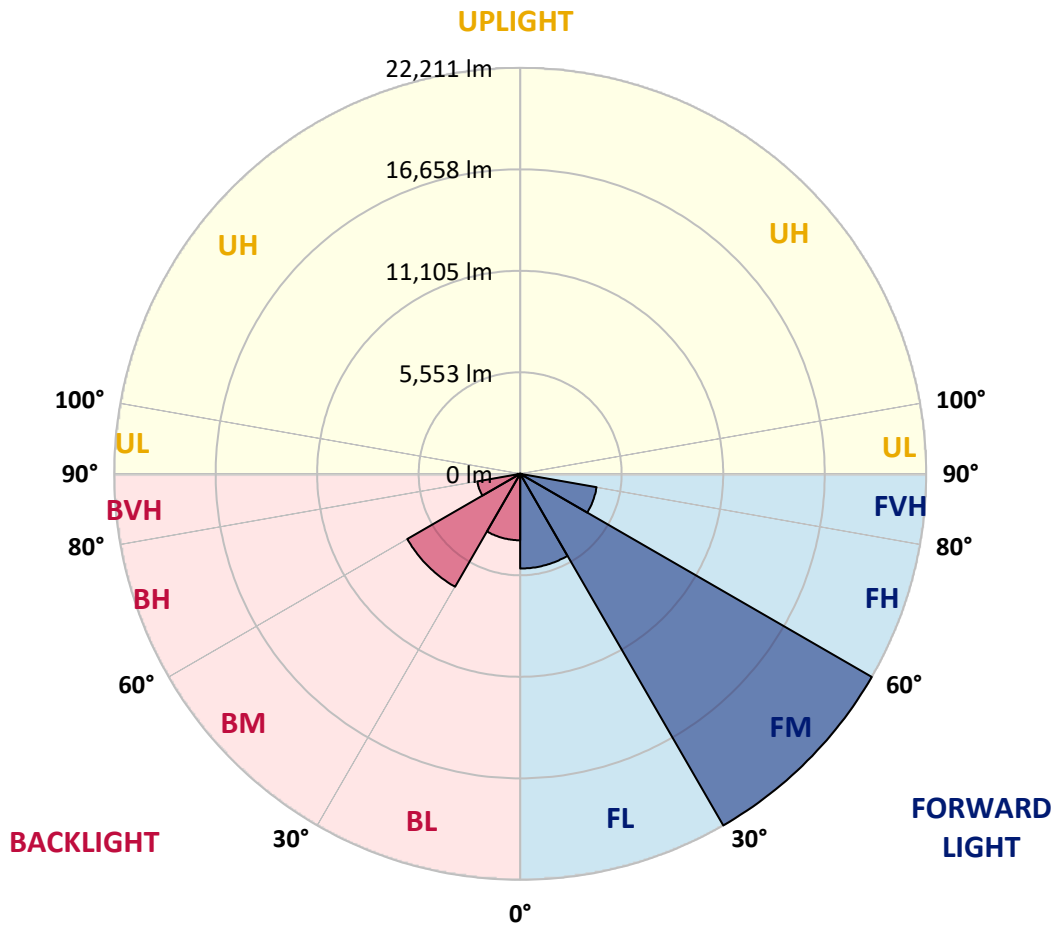
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5181.2	11.5			
FM (30°-60°)	22210.6	49.3			
FH (60°-80°)	4245.4	9.4			G2/5000
FVH (80°-90°)	95.2	0.2			G1/100
BL (0°-30°)	3637.8	8.1	B4/5000		
BM (30°-60°)	7133.2	15.8	B4/8500		
BH (60°-80°)	2384.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	143.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6
2.5°	10960.7	10932.7	11000.0	11050.5	11112.2	11190.7	11230.0	11252.4	11448.7	11398.2	11549.7
5°	10725.1	10652.2	10702.7	10741.9	10848.5	10943.9	11050.5	11218.7	11398.2	11476.8	11661.9
7.5°	10517.6	10478.3	10467.1	10495.1	10641.0	10764.4	10949.5	11196.3	11488.0	11617.0	11723.6
10°	10175.4	10119.3	10203.4	10388.6	10427.8	10685.9	10899.0	11252.4	11504.8	11729.2	12043.3
12.5°	10023.9	9967.9	9984.7	10091.3	10366.1	10612.9	10865.4	11263.6	11796.5	11886.3	12307.0
15°	10265.2	10209.1	10225.9	10197.8	10461.5	10590.5	10988.8	11488.0	11998.4	12149.9	12598.6
17.5°	10814.9	10820.5	10747.6	10685.9	10624.2	10899.0	11173.9	11622.6	12077.0	12458.4	12795.0
20°	11863.8	11678.7	11532.9	11185.1	11089.7	11207.5	11555.3	11987.2	12396.7	12710.8	13092.3
22.5°	12671.6	12688.4	12480.9	11908.7	11701.1	11751.6	12048.9	12402.3	12851.1	13075.4	13513.0
25°	13843.9	13726.1	13501.8	13047.4	12581.8	12621.1	12839.9	13159.6	13283.0	13440.1	13916.9
27.5°	14915.3	14949.0	14505.8	14079.5	13501.8	13389.6	13782.2	13838.3	13630.8	13928.1	14090.7
30°	16003.5	15975.5	15683.8	15184.6	14618.0	14640.5	14814.4	14539.5	14253.4	14416.1	14528.3
32.5°	17131.0	16811.3	16800.1	16351.3	15919.4	15711.9	15498.7	15633.3	15190.2	15223.8	15117.3
35°	18034.1	18079.0	17821.0	17501.2	17288.1	16923.5	16340.1	16581.3	16497.2	16457.9	15997.9
37.5°	18690.4	18516.5	18645.6	18539.0	18337.0	17882.7	17276.9	17506.8	17546.1	17736.8	17203.9
40°	19228.9	19156.0	19498.2	19554.3	19414.0	18432.4	17344.2	18028.5	18617.5	19032.6	18398.7
42.5°	19487.0	19644.0	20003.0	20434.9	20120.8	19071.9	17692.0	18426.8	19739.4	20395.7	19531.8
45°	19834.7	19632.8	20165.7	20956.6	20962.2	19610.4	18028.5	18965.3	20614.4	21568.0	20305.9
47.5°	19481.3	19582.3	20132.0	21136.1	21394.1	20176.9	18937.2	19728.2	21579.3	22426.3	21023.9
50°	18690.4	18892.4	19896.4	20939.8	21719.5	20777.1	19980.6	20552.7	22471.1	23116.2	21141.7
52.5°	17865.8	17978.0	19548.7	21091.2	21865.3	21551.2	21377.3	21691.4	23559.4	23895.9	21287.6
55°	15622.1	16155.0	18398.7	21023.9	22577.7	22947.9	22813.3	23273.3	24793.4	25130.0	22084.1
56°	14584.4	14864.8	17708.8	20709.8	22718.0	23458.4	23391.1	23598.6	25449.7	25803.1	22207.5
57.5°	12666.0	12688.4	15100.4	19318.7	22190.7	23609.8	23542.5	23705.2	25320.7	25079.5	21124.9
60°	7926.0	8273.8	10276.4	14859.2	18869.9	21904.6	22286.0	20979.1	21349.3	20838.8	16435.5
62.5°	4106.1	4055.6	5385.0	8688.9	12525.7	15683.8	16037.2	15975.5	15403.3	14657.3	10736.3
65°	2047.4	2058.6	2815.9	4302.4	6417.1	8212.1	9199.4	9305.9	7785.8	7163.2	5093.3
67.5°	1486.5	1542.6	2025.0	2630.8	3023.5	3382.5	4145.3	4066.8	3079.5	2928.1	2714.9
70°	1155.5	1206.0	1643.5	2008.2	1823.0	1823.0	1985.7	2053.0	2193.3	2255.0	2327.9
72.5°	841.4	880.7	1256.5	1385.5	1194.8	1284.5	1486.5	1643.5	1789.4	1811.8	1896.0
75°	577.8	611.4	824.6	762.9	718.0	886.3	1088.2	1234.1	1340.6	1396.7	1447.2
77.5°	375.8	387.0	471.2	398.3	460.0	572.2	706.8	830.2	936.8	981.6	992.9
80°	168.3	185.1	201.9	252.4	319.7	409.5	504.8	605.8	673.1	690.0	723.6
82.5°	95.4	95.4	123.4	179.5	235.6	297.3	364.6	437.5	516.1	532.9	527.3
85°	50.5	50.5	72.9	106.6	145.8	173.9	168.3	173.9	185.1	213.2	207.5
87.5°	16.8	16.8	22.4	22.4	28.0	33.7	28.0	39.3	50.5	50.5	50.5
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°	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6	11521.6
2.5°	11504.8	11555.3	11488.0	11633.8	11633.8	11605.8	11465.6	11510.4	11544.1	11544.1	11572.1
5°	11723.6	11706.8	11751.6	11577.7	11471.2	11431.9	11201.9	11089.7	10994.4	10988.8	10904.6
7.5°	11847.0	11802.1	11785.3	11656.3	11185.1	10899.0	10405.4	10119.3	10057.6	9838.8	9923.0
10°	12043.3	12127.5	12043.3	11342.1	10685.9	10029.6	9547.2	9104.0	8930.1	8789.9	8705.7
12.5°	12447.2	12407.9	11919.9	10971.9	10052.0	9272.3	8554.3	8088.7	7914.8	7791.4	7780.2
15°	12789.4	12593.0	11847.0	10388.6	9064.7	8234.6	7645.6	7314.6	7236.1	7247.3	7297.8
17.5°	12907.2	12772.5	11465.6	9782.7	8329.9	7353.9	7079.0	7028.5	7101.5	7185.6	7208.0
20°	13092.3	12879.1	11308.5	8958.2	7421.2	6804.2	6787.3	6966.8	7101.5	7224.9	7241.7
22.5°	13479.3	12940.8	10798.0	8178.5	6798.6	6641.5	6804.2	6955.6	7163.2	7264.1	7174.4
25°	13591.5	12806.2	10080.0	7241.7	6405.9	6540.5	6714.4	6922.0	7067.8	7123.9	7163.2
27.5°	13686.9	12598.6	9109.6	6619.1	6282.5	6534.9	6714.4	6888.3	6966.8	7017.3	7062.2
30°	13956.1	12536.9	8268.2	6204.0	6204.0	6422.7	6652.7	6697.6	6804.2	6865.9	6944.4
32.5°	14090.7	12110.6	7404.4	5940.3	6125.4	6478.8	6495.7	6579.8	6585.4	6635.9	6551.7
35°	14444.1	11807.7	6602.2	5749.6	6159.1	6422.7	6506.9	6456.4	6181.5	6046.9	6074.9
37.5°	14702.2	11656.3	6024.5	5727.2	6164.7	6484.4	6529.3	6147.9	5861.8	5637.4	5693.5
40°	15397.7	11280.4	5586.9	5687.9	6215.2	6551.7	6428.3	6013.2	5497.2	5267.2	5227.9
42.5°	15930.6	11011.2	5312.1	5643.0	6254.4	6647.1	6377.9	5744.0	5216.7	5003.6	5059.7
45°	16547.6	10949.5	5166.2	5654.2	6321.8	6697.6	6316.2	5536.4	4975.5	4891.4	4874.5
47.5°	16766.4	10506.4	5009.2	5558.9	6304.9	6680.8	6108.6	5379.4	4885.8	4897.0	4941.9
50°	16401.8	10052.0	4891.4	5362.6	6192.7	6529.3	5783.3	5171.8	4835.3	4975.5	5054.0
52.5°	15936.2	9586.4	4650.2	5098.9	5962.8	6293.7	5631.8	5160.6	4784.8	4739.9	4756.7
55°	16076.5	9205.0	4313.6	4739.9	5592.5	5856.2	5463.5	5054.0	4661.4	4493.1	4549.2
56°	15622.1	8812.3	4094.8	4515.5	5340.1	5575.7	5379.4	4958.7	4560.4	4448.2	4448.2
57.5°	14337.6	7494.1	3808.8	4156.5	4807.2	5087.7	5216.7	4902.6	4448.2	4251.9	4257.5
60°	10573.7	5328.9	3416.1	3662.9	3982.7	4207.0	4807.2	4745.5	4167.8	4033.1	3982.7
62.5°	6518.1	3892.9	3135.6	3231.0	3393.7	3578.8	4195.8	4296.8	3870.5	3724.6	3691.0
65°	3651.7	2978.6	2922.5	2961.7	3040.3	3135.6	3483.4	3707.8	3416.1	3191.7	3180.5
67.5°	2670.1	2664.5	2709.3	2743.0	2776.6	2776.6	2860.8	2950.5	2911.3	2731.8	2714.9
70°	2372.8	2389.6	2423.2	2428.9	2440.1	2400.8	2333.5	2305.5	2350.3	2238.1	2215.7
72.5°	1957.7	2013.8	2053.0	2058.6	1996.9	1946.5	1856.7	1761.3	1727.7	1705.2	1699.6
75°	1503.3	1542.6	1559.4	1553.8	1531.4	1458.4	1351.9	1256.5	1194.8	1127.5	1161.1
77.5°	1015.3	1071.4	1099.4	1099.4	1065.8	953.6	903.1	830.2	768.5	695.6	706.8
80°	712.4	751.7	796.5	790.9	734.8	678.7	605.8	538.5	488.0	431.9	426.3
82.5°	532.9	555.3	577.8	566.5	527.3	471.2	420.7	359.0	302.9	263.6	263.6
85°	190.7	207.5	252.4	263.6	286.1	286.1	241.2	201.9	162.7	134.6	134.6
87.5°	56.1	56.1	61.7	61.7	56.1	61.7	50.5	56.1	61.7	39.3	39.3
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)