

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: P532167

Luminaire Tested: **GALN-SA7C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29494 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

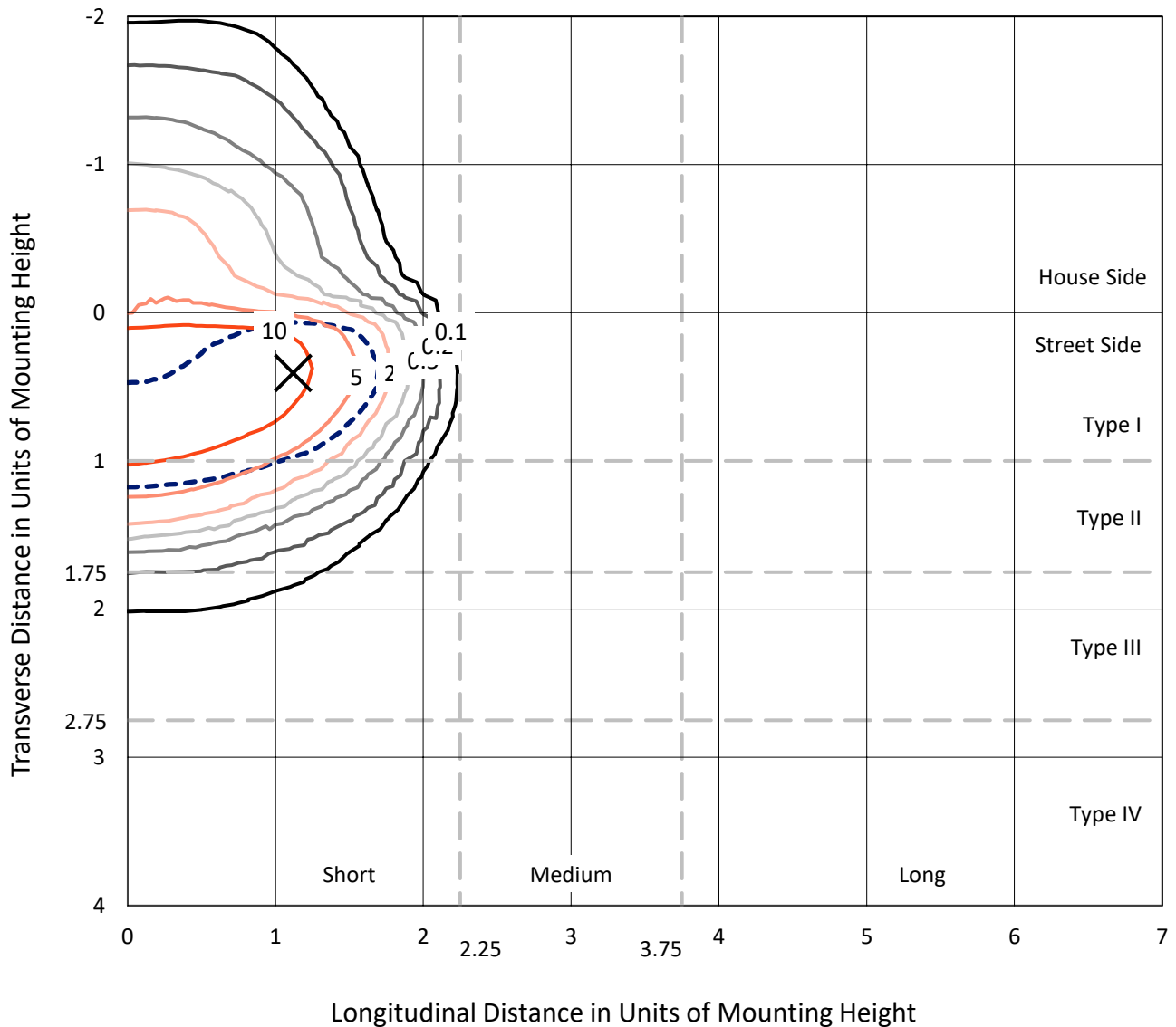
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

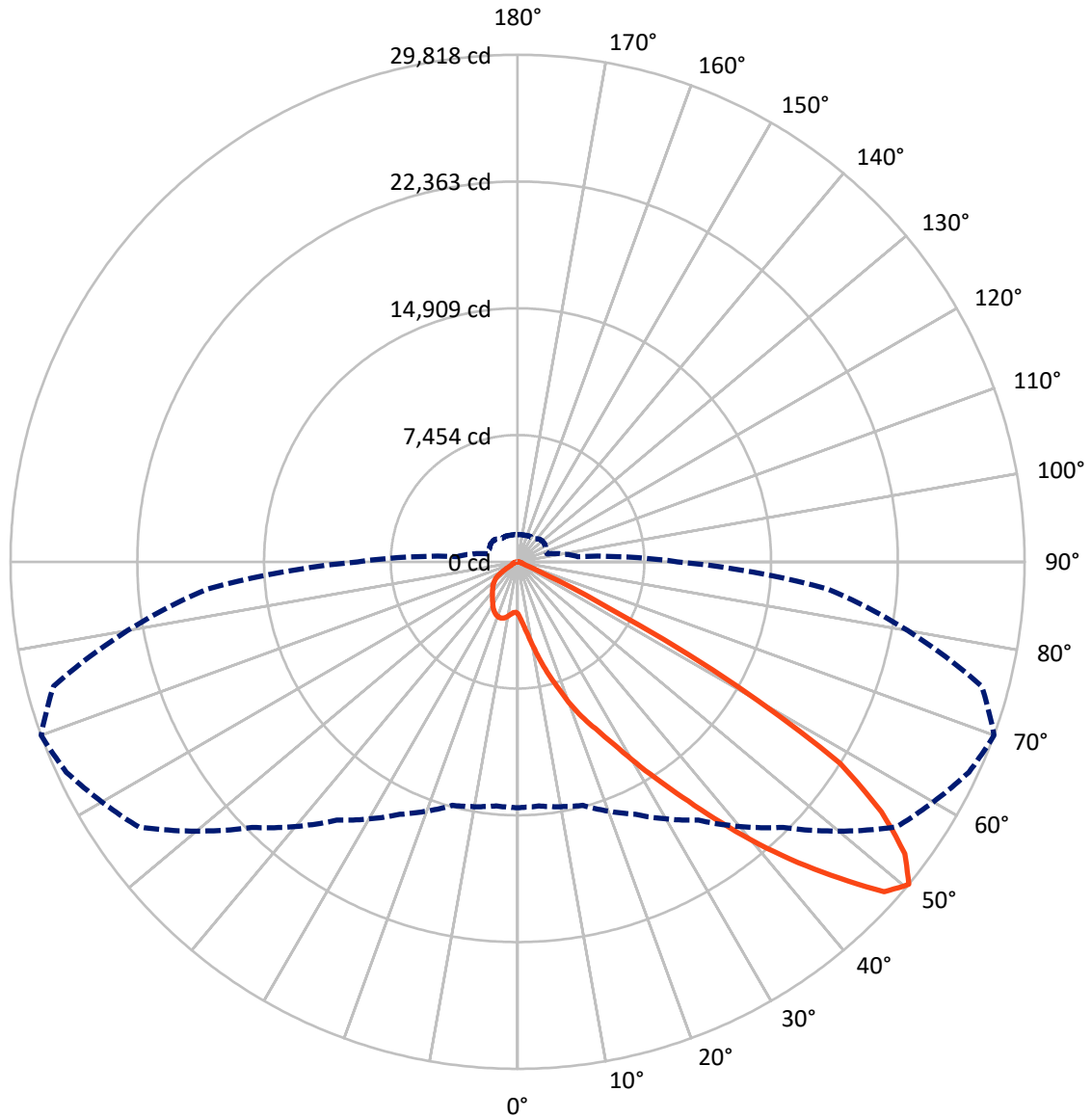
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4119.0	0.0	4119.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25375.0	0.0	25375.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	29494.0	0.0	29494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.3	1.3
10°-20°	1718.4	5.8
20°-30°	3604.9	12.2
30°-40°	6213.7	21.1
40°-50°	9081.3	30.8
50°-60°	7072.8	24.0
60°-70°	1198.4	4.1
70°-80°	164.6	0.6
80°-90°	42.6	0.1
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°	29494.0	100.0
0°-180°	29494.0	100.0

Coefficient of Utilization



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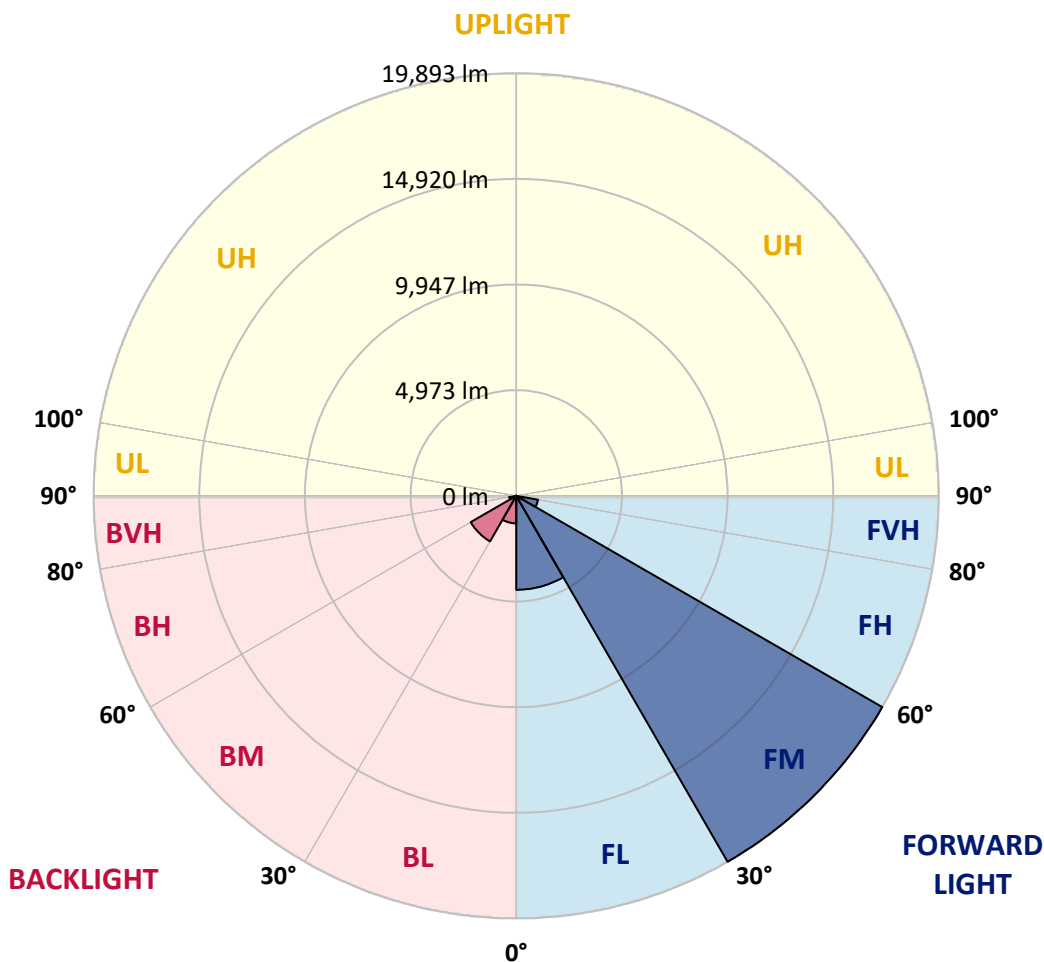
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4424.4	15.0			
FM (30°-60°)	19893.2	67.4			
FH (60°-80°)	1037.6	3.5			G1/1800
FVH (80°-90°)	19.7	0.1			G1/100
BL (0°-30°)	1296.2	4.4	B3/2500		
BM (30°-60°)	2474.6	8.4	B2/2500		
BH (60°-80°)	325.4	1.1	B1/500		G1/500
BVH (80°-90°)	22.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0
2.5°	4000.6	3971.5	3908.5	3792.1	3743.6	3627.2	3559.3	3428.4	3345.9	3253.8	3152.0
5°	5634.8	5484.4	5392.3	5261.4	4878.3	4640.7	4247.9	3913.3	3758.1	3588.4	3355.6
7.5°	7322.3	7225.3	7099.2	6818.0	6556.1	6061.5	5387.5	4650.4	4335.2	4044.2	3583.6
10°	8718.9	8447.3	8432.8	8224.2	7938.1	7346.5	6536.7	5620.2	5057.7	4631.0	3908.5
12.5°	9693.6	9446.2	9557.8	9533.5	9266.8	8723.7	7787.8	6575.5	5988.8	5324.4	4243.1
15°	10581.0	10479.1	10445.2	10416.1	10309.4	9906.9	9068.0	7739.3	6890.7	6090.6	4621.3
17.5°	11449.0	11187.1	11313.2	11337.4	11327.7	10964.0	10178.5	8844.9	7846.0	6900.4	5018.9
20°	12220.0	12244.2	12074.5	12040.6	12011.5	11996.9	11230.8	9940.9	9019.5	7749.0	5537.8
22.5°	13209.2	13039.5	13189.8	13092.8	12903.7	12787.3	12200.6	10910.7	10037.8	8772.2	6066.4
25°	14377.9	14513.7	14159.7	14120.9	13912.4	13509.9	12981.3	11996.9	11017.4	9722.7	6638.6
27.5°	15818.1	15580.5	15488.4	15275.0	14896.8	14727.0	14106.3	13117.1	12200.6	10721.6	7191.4
30°	17054.6	16991.6	16530.9	16278.8	15949.0	15944.2	15076.2	14634.9	13742.6	12287.9	7952.7
32.5°	18063.3	17786.9	17617.2	17442.6	17175.9	17248.6	16516.4	16283.6	15386.5	13742.6	8849.8
35°	18737.3	18538.5	18436.7	18170.0	18092.4	18417.3	18111.8	18014.8	17277.7	15789.0	9902.1
37.5°	18950.7	19013.7	18994.3	18659.7	18824.6	19702.3	20095.1	19842.9	19455.0	17946.9	11041.6
40°	19139.8	19183.4	19086.5	19479.2	19949.6	20948.6	22369.4	21952.3	21806.9	20133.9	12627.3
42.5°	19246.5	19212.5	19212.5	19891.4	20604.3	22611.8	24566.1	24289.7	24178.1	22461.5	14460.3
45°	18785.8	18456.1	18810.1	19731.4	21166.8	23431.3	26321.5	26704.6	26544.5	25230.4	16603.7
47.5°	17064.3	17268.0	17466.8	18698.5	20483.0	23179.2	27398.0	28702.4	28998.2	27558.0	18009.9
50°	14460.3	14416.7	14828.9	16380.6	18548.2	22093.0	27189.5	29279.5	29817.7	28256.3	18305.7
52.5°	10517.9	10838.0	11284.1	12826.1	15396.2	19280.4	24498.2	27790.8	28508.5	27398.0	18111.8
55°	6124.5	5770.6	6774.3	8078.8	10503.4	14542.8	20710.9	24633.9	25962.6	25836.6	17132.2
57.5°	2453.7	2376.1	2720.4	3666.0	5479.6	9014.7	15061.6	20240.6	22369.4	23664.1	15056.8
60°	1076.5	1052.3	1236.5	1493.6	2240.3	4155.8	8238.8	12588.5	14809.5	16535.8	10362.7
62.5°	775.9	766.2	858.3	950.4	1183.2	1808.8	3462.3	5072.3	6323.4	7637.5	4640.7
65°	625.5	649.8	712.8	761.3	872.9	1003.8	1222.0	1411.1	1731.2	1794.2	1023.2
67.5°	509.2	528.6	586.8	640.1	659.5	543.1	562.5	494.6	494.6	441.3	354.0
70°	373.4	378.2	446.1	509.2	407.3	218.2	383.1	383.1	344.3	329.7	300.7
72.5°	276.4	281.3	334.6	315.2	160.0	135.8	281.3	310.3	281.3	266.7	242.5
75°	203.7	208.5	174.6	72.7	67.9	87.3	164.9	213.4	203.7	198.8	184.3
77.5°	38.8	29.1	24.2	33.9	48.5	72.7	106.7	130.9	135.8	145.5	135.8
80°	4.8	4.8	14.5	29.1	53.3	77.6	111.5	126.1	130.9	135.8	126.1
82.5°	0.0	4.8	14.5	29.1	53.3	72.7	97.0	111.5	121.2	126.1	121.2
85°	0.0	4.8	9.7	24.2	43.6	53.3	48.5	33.9	29.1	33.9	24.2
87.5°	0.0	0.0	4.8	4.8	9.7	9.7	9.7	9.7	9.7	9.7	9.7
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°	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0	3055.0
2.5°	3093.8	3074.4	3006.5	2933.8	2870.7	2899.8	2870.7	2846.5	2856.2	2846.5	2836.8
5°	3263.5	3176.2	3030.8	2967.7	2914.4	2909.5	2895.0	2890.1	2895.0	2895.0	2851.3
7.5°	3423.5	3282.9	3127.7	3059.8	2996.8	3001.7	2967.7	2967.7	2962.9	2938.6	2928.9
10°	3666.0	3476.9	3278.1	3156.8	3079.2	3064.7	3030.8	2996.8	2996.8	2996.8	2948.3
12.5°	3932.7	3695.1	3423.5	3282.9	3190.8	3118.0	3064.7	3055.0	3001.7	2992.0	2967.7
15°	4165.5	3864.8	3520.5	3326.6	3210.2	3113.2	3030.8	2977.4	2953.2	2938.6	2919.2
17.5°	4393.4	4010.3	3573.9	3326.6	3200.5	3088.9	3001.7	2953.2	2895.0	2904.7	2865.9
20°	4698.9	4165.5	3588.4	3263.5	3108.3	3001.7	2885.3	2861.0	2827.1	2798.0	2807.7
22.5°	4994.7	4277.0	3544.8	3185.9	2962.9	2836.8	2778.6	2749.5	2735.0	2710.7	2676.8
25°	5261.4	4398.2	3476.9	3045.3	2807.7	2715.6	2662.2	2657.4	2623.4	2623.4	2560.4
27.5°	5532.9	4441.9	3360.5	2880.4	2671.9	2618.6	2594.3	2584.6	2570.1	2536.1	2492.5
30°	5843.3	4456.4	3190.8	2710.7	2550.7	2492.5	2526.4	2550.7	2487.6	2424.6	2444.0
32.5°	6100.3	4422.5	2987.1	2550.7	2463.4	2434.3	2502.2	2526.4	2453.7	2385.8	2351.9
35°	6410.6	4340.0	2788.3	2424.6	2376.1	2434.3	2492.5	2492.5	2347.0	2264.6	2245.2
37.5°	6881.0	4247.9	2604.0	2317.9	2284.0	2405.2	2482.8	2429.5	2201.5	2099.7	2075.5
40°	7385.3	4189.7	2424.6	2211.2	2235.5	2356.7	2400.4	2235.5	2002.7	1939.7	1920.3
42.5°	8117.6	4073.3	2264.6	2119.1	2191.8	2288.8	2288.8	1993.0	1905.7	1871.8	1866.9
45°	9029.2	3990.9	2124.0	2041.5	2128.8	2153.0	2075.5	1866.9	1803.9	1794.2	1799.1
47.5°	9475.3	3830.9	1978.5	1949.4	2012.4	2017.3	1813.6	1765.1	1711.8	1697.2	1687.5
50°	9407.5	3544.8	1789.4	1828.1	1915.4	1866.9	1653.6	1663.3	1614.8	1609.9	1585.7
52.5°	8932.2	3093.8	1600.2	1692.4	1789.4	1648.7	1522.6	1513.0	1513.0	1449.9	1425.7
55°	7918.7	2492.5	1372.3	1488.7	1605.1	1386.9	1352.9	1343.2	1319.0	1260.8	1246.2
57.5°	6270.0	1828.1	1032.9	1159.0	1362.6	1178.4	1173.5	1129.9	1066.8	1023.2	1023.2
60°	3729.0	1052.3	649.8	708.0	902.0	955.3	1062.0	1042.6	935.9	868.0	848.6
62.5°	1702.1	543.1	412.2	421.9	484.9	620.7	834.1	965.0	814.7	698.3	688.6
65°	572.2	402.5	339.4	324.9	334.6	373.4	499.5	683.7	649.8	538.3	518.9
67.5°	349.1	358.8	320.0	295.8	295.8	291.0	286.1	310.3	383.1	373.4	378.2
70°	300.7	329.7	295.8	266.7	257.0	242.5	203.7	169.7	145.5	169.7	179.4
72.5°	242.5	261.9	252.2	227.9	203.7	184.3	145.5	111.5	82.4	72.7	72.7
75°	179.4	194.0	203.7	174.6	155.2	130.9	106.7	72.7	43.6	29.1	29.1
77.5°	130.9	145.5	150.3	135.8	116.4	92.1	67.9	48.5	24.2	9.7	9.7
80°	111.5	130.9	145.5	135.8	121.2	87.3	63.0	33.9	19.4	4.8	4.8
82.5°	106.7	130.9	145.5	130.9	116.4	82.4	63.0	38.8	14.5	4.8	4.8
85°	24.2	33.9	43.6	53.3	63.0	63.0	48.5	29.1	14.5	4.8	4.8
87.5°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	4.8	4.8	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)