

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: P530820

Luminaire Tested: **GALN-SA6A-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530820
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-SA6A-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA 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: 23673 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

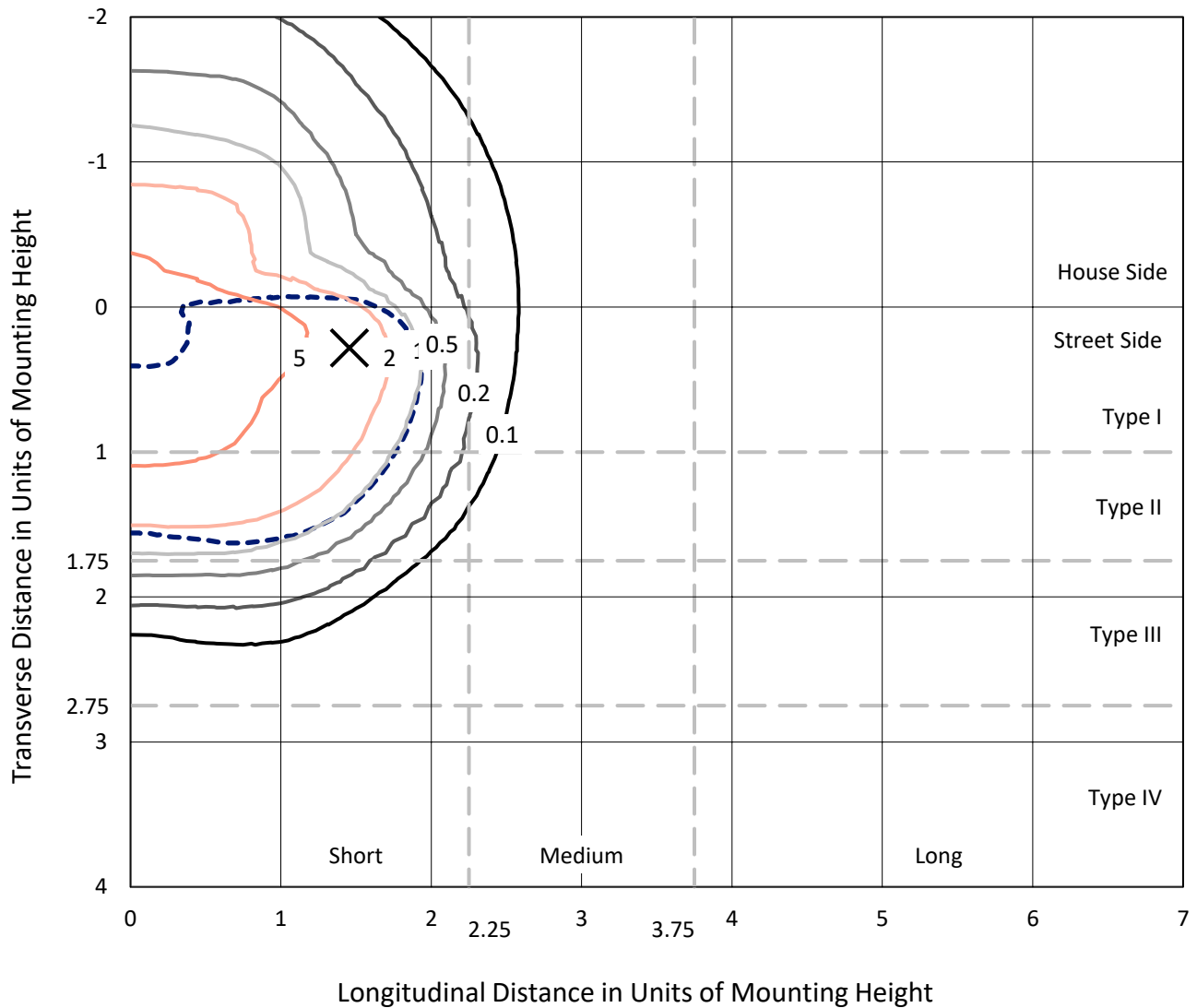
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

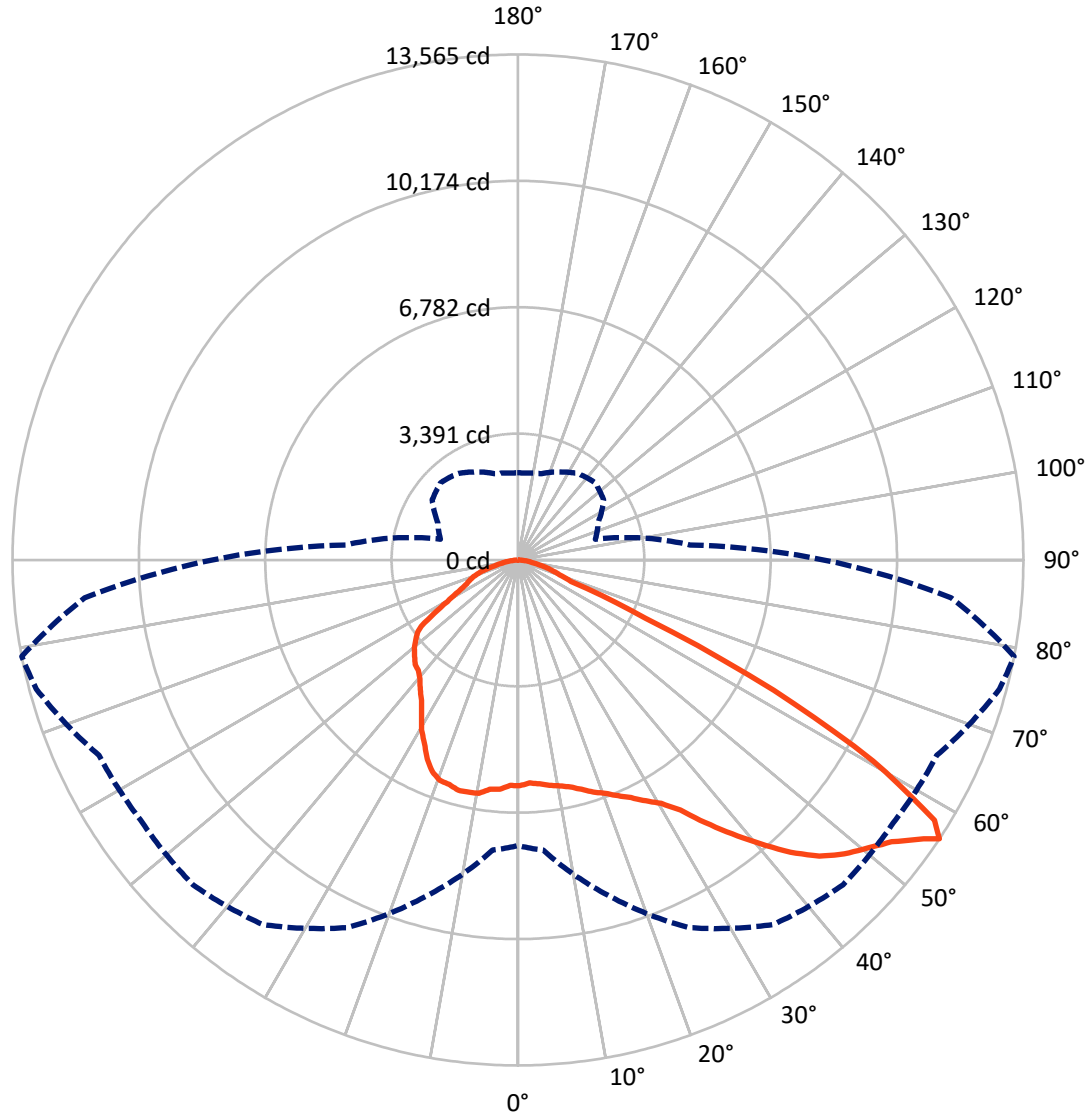
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	6991.2	0.0	6991.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	16681.8	0.0	16681.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	23673.0	0.0	23673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.7	2.3
10°-20°	1507.1	6.4
20°-30°	2578.4	10.9
30°-40°	3951.7	16.7
40°-50°	5340.6	22.6
50°-60°	6133.9	25.9
60°-70°	2796.0	11.8
70°-80°	689.4	2.9
80°-90°	125.3	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°	23673.0	100.0
0°-180°	23673.0	100.0

Coefficient of Utilization

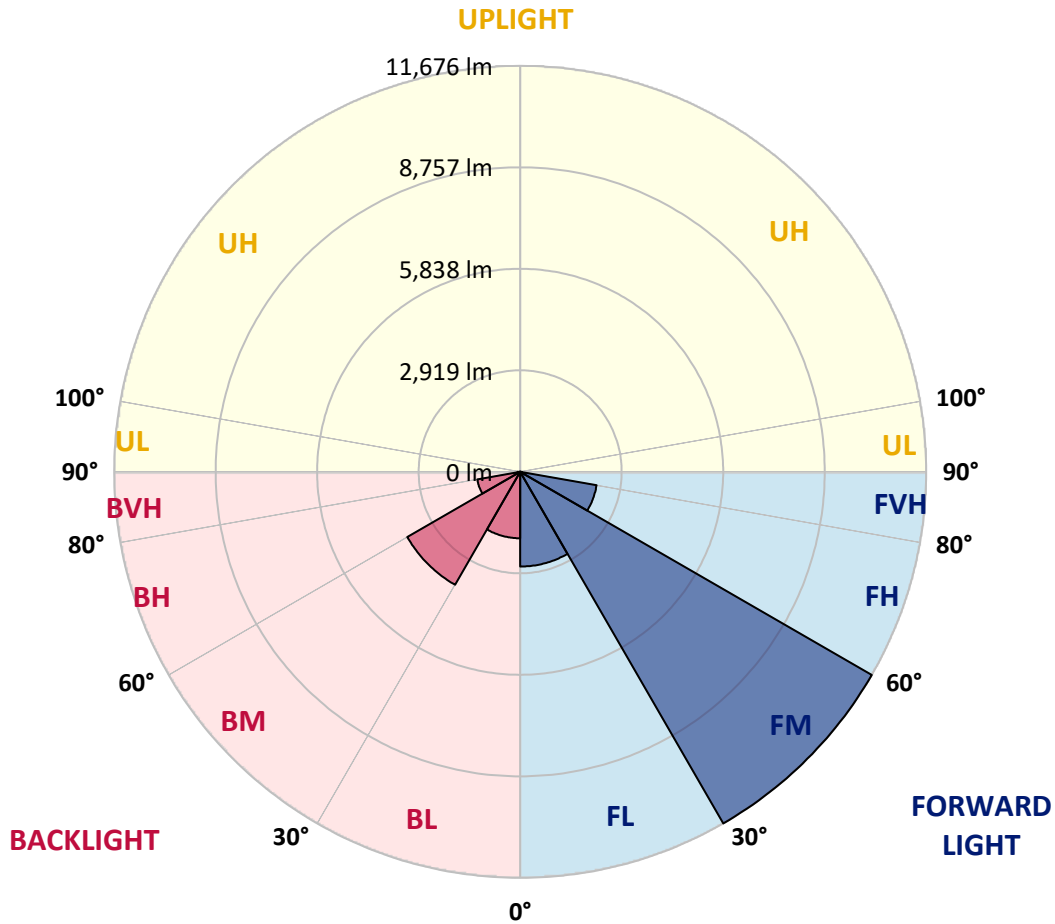


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2723.8	11.5			
FM (30°-60°)	11676.2	49.3			
FH (60°-80°)	2231.8	9.4			G2/5000
FVH (80°-90°)	50.0	0.2			G1/100
BL (0°-30°)	1912.4	8.1	B3/2500		
BM (30°-60°)	3750.0	15.8	B3/5000		
BH (60°-80°)	1253.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	75.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0
2.5°	5762.1	5747.4	5782.7	5809.3	5841.7	5883.0	5903.6	5915.4	6018.6	5992.1	6071.7
5°	5638.2	5599.9	5626.4	5647.1	5703.1	5753.2	5809.3	5897.7	5992.1	6033.4	6130.7
7.5°	5529.1	5508.5	5502.6	5517.3	5594.0	5658.9	5756.2	5885.9	6039.3	6107.1	6163.1
10°	5349.3	5319.8	5364.0	5461.3	5482.0	5617.6	5729.7	5915.4	6048.1	6166.1	6331.2
12.5°	5269.6	5240.1	5249.0	5305.0	5449.5	5579.3	5712.0	5921.3	6201.5	6248.7	6469.8
15°	5396.4	5366.9	5375.8	5361.0	5499.6	5567.5	5776.8	6039.3	6307.6	6387.3	6623.2
17.5°	5685.4	5688.4	5650.0	5617.6	5585.2	5729.7	5874.2	6110.1	6348.9	6549.4	6726.4
20°	6236.9	6139.6	6062.9	5880.1	5829.9	5891.8	6074.7	6301.7	6517.0	6682.1	6882.7
22.5°	6661.5	6670.3	6561.2	6260.5	6151.3	6177.9	6334.2	6520.0	6755.9	6873.8	7103.8
25°	7277.8	7215.9	7097.9	6859.1	6614.3	6635.0	6750.0	6918.1	6982.9	7065.5	7316.2
27.5°	7841.1	7858.7	7625.8	7401.7	7097.9	7039.0	7245.4	7274.9	7165.8	7322.0	7407.6
30°	8413.1	8398.4	8245.0	7982.6	7684.8	7696.6	7788.0	7643.5	7493.1	7578.6	7637.6
32.5°	9005.9	8837.8	8831.9	8596.0	8368.9	8259.8	8147.7	8218.5	7985.5	8003.2	7947.2
35°	9480.6	9504.2	9368.6	9200.5	9088.4	8896.7	8590.1	8716.9	8672.6	8652.0	8410.2
37.5°	9825.6	9734.2	9802.1	9746.0	9639.9	9401.0	9082.5	9203.4	9224.1	9324.3	9044.2
40°	10108.7	10070.4	10250.3	10279.8	10206.0	9690.0	9117.9	9477.7	9787.3	10005.5	9672.3
42.5°	10244.4	10327.0	10515.7	10742.7	10577.6	10026.2	9300.7	9687.0	10377.1	10722.1	10268.0
45°	10427.2	10321.1	10601.2	11017.0	11019.9	10309.3	9477.7	9970.1	10837.1	11338.4	10674.9
47.5°	10241.4	10294.5	10583.5	11111.4	11247.0	10607.1	9955.4	10371.2	11344.3	11789.6	11052.4
50°	9825.6	9931.8	10459.6	11008.1	11418.0	10922.6	10503.9	10804.7	11813.2	12152.3	11114.3
52.5°	9392.2	9451.1	10276.8	11087.8	11494.7	11329.6	11238.2	11403.3	12385.3	12562.2	11191.0
55°	8212.6	8492.8	9672.3	11052.4	11869.2	12063.8	11993.1	12234.9	13034.0	13210.9	11609.7
56°	7667.1	7814.5	9309.6	10887.2	11942.9	12332.2	12296.8	12405.9	13379.0	13564.8	11674.6
57.5°	6658.6	6670.3	7938.4	10155.9	11665.7	12411.8	12376.4	12461.9	13311.2	13184.4	11105.5
60°	4166.8	4349.6	5402.3	7811.6	9920.0	11515.3	11715.9	11028.8	11223.4	10955.1	8640.2
62.5°	2158.6	2132.0	2830.9	4567.8	6584.8	8245.0	8430.8	8398.4	8097.6	7705.4	5644.1
65°	1076.3	1082.2	1480.3	2261.8	3373.5	4317.1	4836.2	4892.2	4093.0	3765.7	2677.6
67.5°	781.5	810.9	1064.5	1383.0	1589.4	1778.2	2179.2	2137.9	1618.9	1539.3	1427.3
70°	607.5	634.0	864.0	1055.7	958.4	958.4	1043.9	1079.3	1153.0	1185.4	1223.8
72.5°	442.3	463.0	660.5	728.4	628.1	675.3	781.5	864.0	940.7	952.5	996.7
75°	303.7	321.4	433.5	401.0	377.5	465.9	572.1	648.8	704.8	734.3	760.8
77.5°	197.6	203.5	247.7	209.4	241.8	300.8	371.6	436.4	492.5	516.1	522.0
80°	88.5	97.3	106.2	132.7	168.1	215.3	265.4	318.5	353.9	362.7	380.4
82.5°	50.1	50.1	64.9	94.4	123.9	156.3	191.7	230.0	271.3	280.1	277.2
85°	26.5	26.5	38.3	56.0	76.7	91.4	88.5	91.4	97.3	112.1	109.1
87.5°	8.8	8.8	11.8	11.8	14.7	17.7	14.7	20.6	26.5	26.5	26.5
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°	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0	6057.0
2.5°	6048.1	6074.7	6039.3	6116.0	6116.0	6101.2	6027.5	6051.1	6068.8	6068.8	6083.5
5°	6163.1	6154.3	6177.9	6086.5	6030.4	6009.8	5888.9	5829.9	5779.8	5776.8	5732.6
7.5°	6228.0	6204.4	6195.6	6127.8	5880.1	5729.7	5470.2	5319.8	5287.3	5172.3	5216.6
10°	6331.2	6375.5	6331.2	5962.6	5617.6	5272.6	5019.0	4786.0	4694.6	4620.9	4576.6
12.5°	6543.5	6522.9	6266.4	5768.0	5284.4	4874.5	4497.0	4252.3	4160.9	4096.0	4090.1
15°	6723.4	6620.2	6228.0	5461.3	4765.4	4328.9	4019.3	3845.3	3804.0	3809.9	3836.5
17.5°	6785.4	6714.6	6027.5	5142.8	4379.1	3866.0	3721.5	3694.9	3733.3	3777.5	3789.3
20°	6882.7	6770.6	5944.9	4709.3	3901.4	3577.0	3568.1	3662.5	3733.3	3798.1	3807.0
22.5°	7086.1	6803.0	5676.6	4299.5	3574.0	3491.5	3577.0	3656.6	3765.7	3818.8	3771.6
25°	7145.1	6732.3	5299.1	3807.0	3367.6	3438.4	3529.8	3638.9	3715.6	3745.1	3765.7
27.5°	7195.2	6623.2	4789.0	3479.7	3302.7	3435.4	3529.8	3621.2	3662.5	3689.0	3712.6
30°	7336.8	6590.7	4346.6	3261.5	3261.5	3376.5	3497.4	3521.0	3577.0	3609.4	3650.7
32.5°	7407.6	6366.6	3892.5	3122.9	3220.2	3405.9	3414.8	3459.0	3462.0	3488.5	3444.3
35°	7593.3	6207.4	3470.8	3022.6	3237.9	3376.5	3420.7	3394.2	3249.7	3178.9	3193.6
37.5°	7729.0	6127.8	3167.1	3010.8	3240.8	3408.9	3432.5	3232.0	3081.6	2963.6	2993.1
40°	8094.7	5930.2	2937.1	2990.2	3267.4	3444.3	3379.4	3161.2	2889.9	2769.0	2748.3
42.5°	8374.8	5788.6	2792.6	2966.6	3288.0	3494.4	3352.9	3019.6	2742.5	2630.4	2659.9
45°	8699.2	5756.2	2715.9	2972.5	3323.4	3521.0	3320.4	2910.5	2615.6	2571.4	2562.6
47.5°	8814.2	5523.2	2633.3	2922.3	3314.5	3512.1	3211.3	2828.0	2568.5	2574.4	2598.0
50°	8622.5	5284.4	2571.4	2819.1	3255.6	3432.5	3040.3	2718.9	2541.9	2615.6	2656.9
52.5°	8377.7	5039.6	2444.6	2680.5	3134.7	3308.6	2960.7	2713.0	2515.4	2491.8	2500.6
55°	8451.5	4839.1	2267.7	2491.8	2940.0	3078.6	2872.2	2656.9	2450.5	2362.0	2391.5
56°	8212.6	4632.7	2152.7	2373.8	2807.3	2931.2	2828.0	2606.8	2397.4	2338.5	2338.5
57.5°	7537.3	3939.7	2002.3	2185.1	2527.2	2674.6	2742.5	2577.3	2338.5	2235.2	2238.2
60°	5558.6	2801.4	1795.9	1925.6	2093.7	2211.7	2527.2	2494.7	2191.0	2120.2	2093.7
62.5°	3426.6	2046.5	1648.4	1698.6	1784.1	1881.4	2205.8	2258.8	2034.7	1958.1	1940.4
65°	1919.7	1565.9	1536.4	1557.0	1598.3	1648.4	1831.2	1949.2	1795.9	1677.9	1672.0
67.5°	1403.7	1400.7	1424.3	1442.0	1459.7	1459.7	1503.9	1551.1	1530.5	1436.1	1427.3
70°	1247.4	1256.2	1273.9	1276.9	1282.8	1262.1	1226.7	1212.0	1235.6	1176.6	1164.8
72.5°	1029.2	1058.6	1079.3	1082.2	1049.8	1023.3	976.1	925.9	908.3	896.5	893.5
75°	790.3	810.9	819.8	816.8	805.0	766.7	710.7	660.5	628.1	592.7	610.4
77.5°	533.7	563.2	578.0	578.0	560.3	501.3	474.8	436.4	404.0	365.7	371.6
80°	374.5	395.1	418.7	415.8	386.3	356.8	318.5	283.1	256.6	227.1	224.1
82.5°	280.1	291.9	303.7	297.8	277.2	247.7	221.2	188.7	159.2	138.6	138.6
85°	100.3	109.1	132.7	138.6	150.4	150.4	126.8	106.2	85.5	70.8	70.8
87.5°	29.5	29.5	32.4	32.4	29.5	32.4	26.5	29.5	32.4	20.6	20.6
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)