

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: P650904

Luminaire Tested: **GALN-SA5C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25050 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

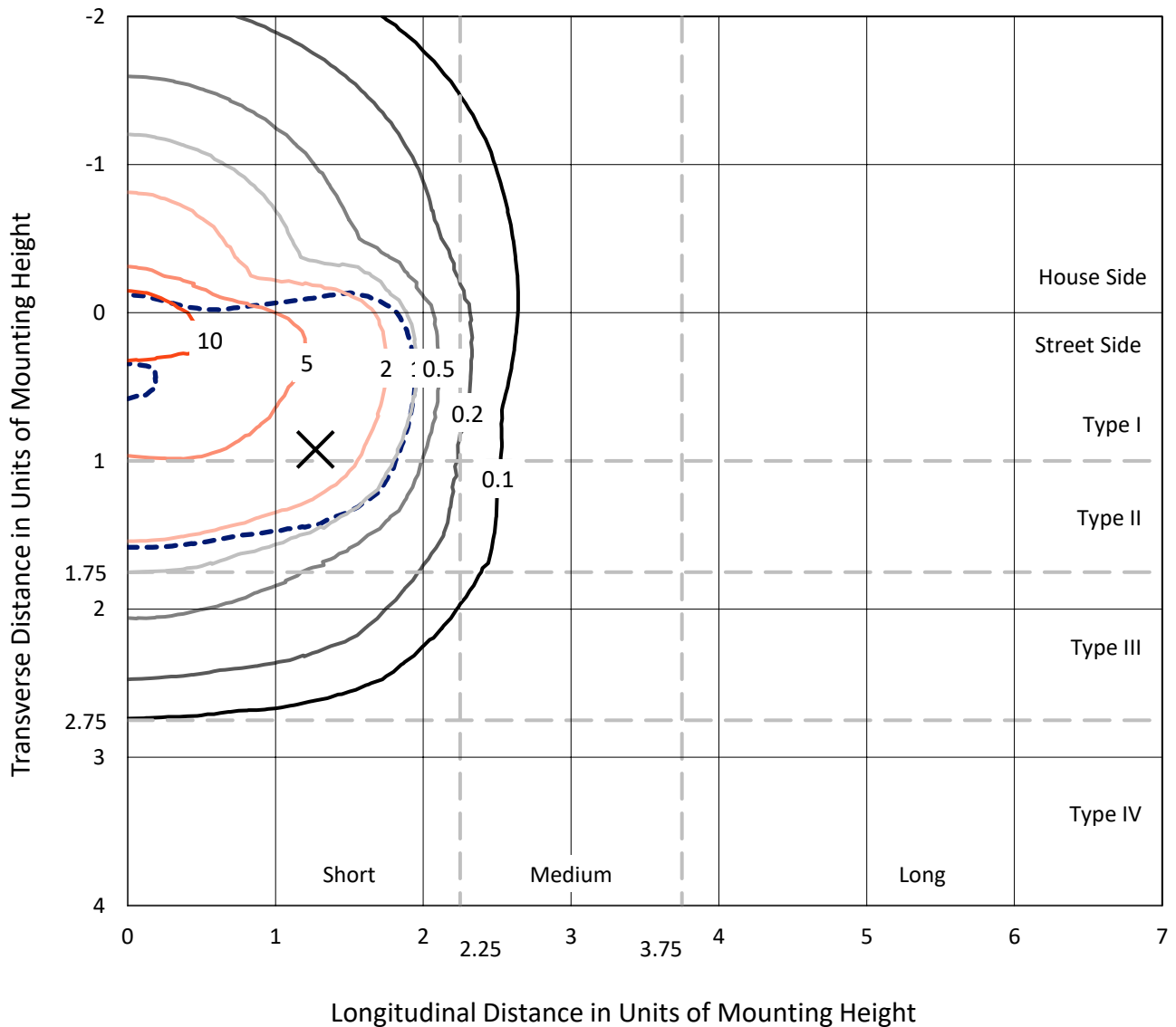
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

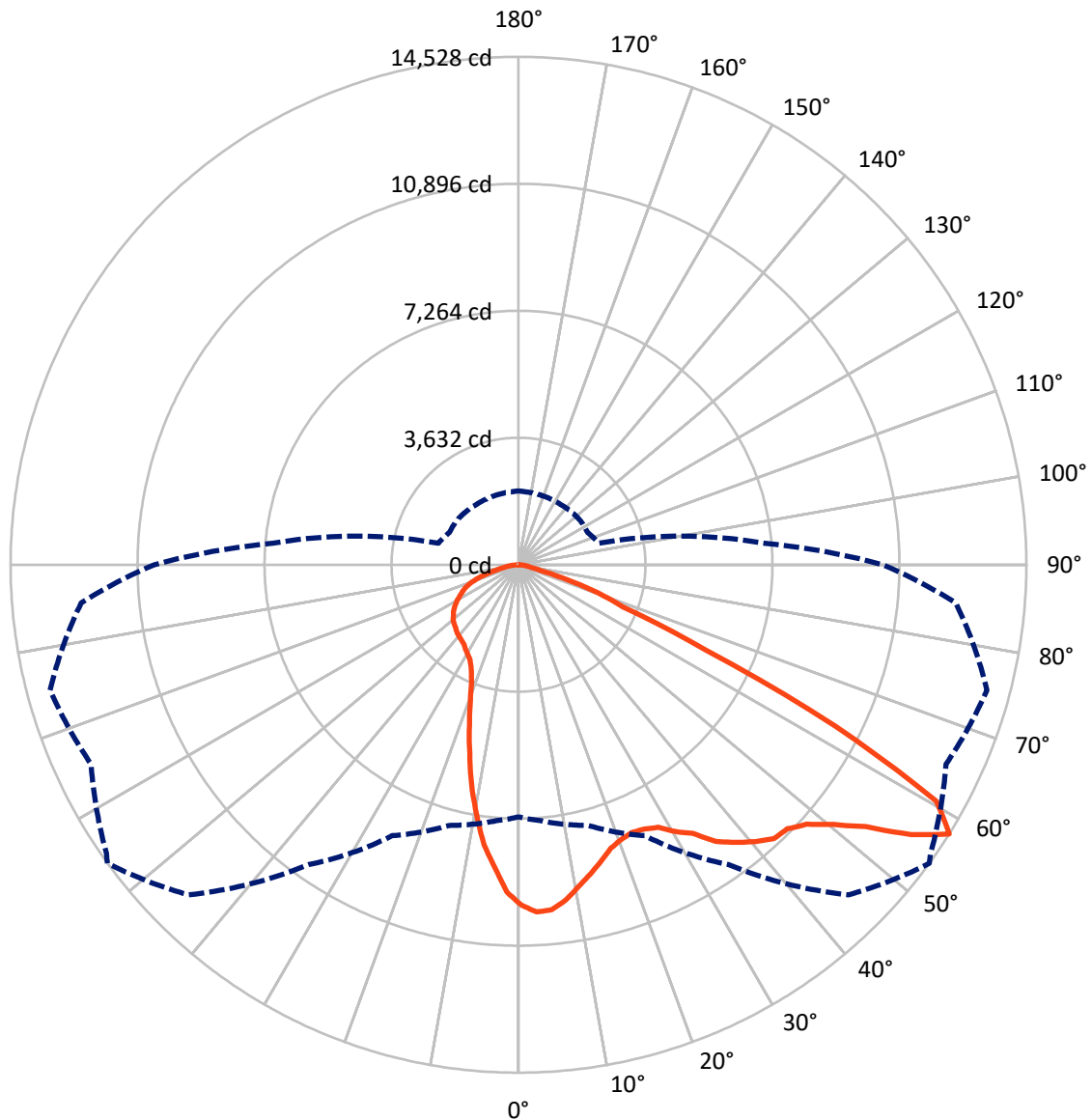
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6930.2	0.0	6930.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	18119.8	0.0	18119.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	25050.0	0.0	25050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.7	3.4
10°-20°	1944.2	7.8
20°-30°	2731.6	10.9
30°-40°	3818.8	15.2
40°-50°	5170.0	20.6
50°-60°	6297.2	25.1
60°-70°	3279.9	13.1
70°-80°	840.4	3.4
80°-90°	128.2	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°	25050.0	100.0
0°-180°	25050.0	100.0

Coefficient of Utilization



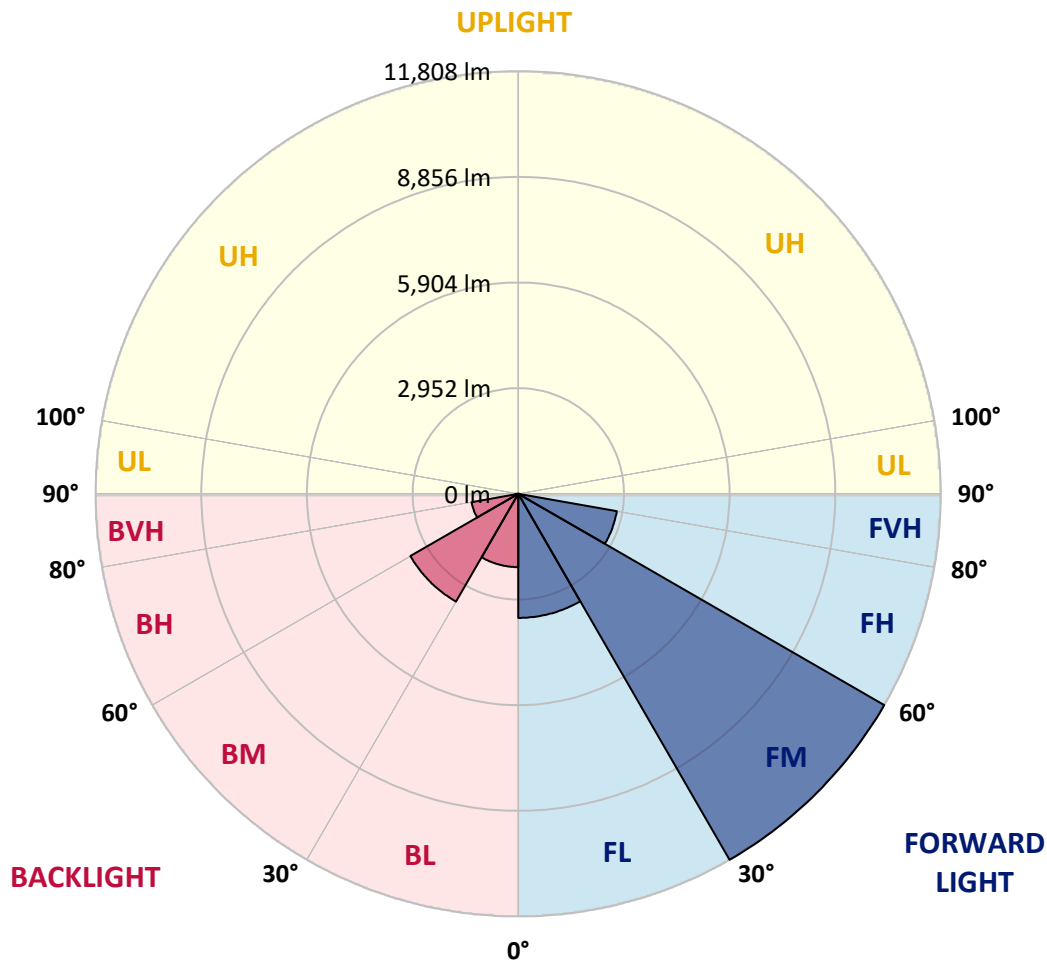
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3467.3	13.8			
FM (30°-60°)	11807.8	47.1			
FH (60°-80°)	2796.3	11.2			G2/5000
FVH (80°-90°)	48.4	0.2			G1/100
BL (0°-30°)	2048.2	8.2	B3/2500		
BM (30°-60°)	3478.2	13.9	B3/5000		
BH (60°-80°)	1324.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	79.8	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°	54°	55°	65°	75°	85°
0°	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7
2.5°	10013.5	9974.9	9981.3	10032.9	9968.5	9942.7	9942.7	9817.2	9826.8	9739.9	9717.3
5°	9781.8	9691.6	9752.7	9830.0	9842.9	9868.6	9910.5	9878.3	9788.1	9694.8	9543.5
7.5°	9176.4	9256.9	9279.4	9334.2	9450.1	9556.4	9688.3	9598.2	9595.0	9501.6	9411.5
10°	8645.1	8596.9	8719.2	8799.7	8992.9	9170.0	9372.9	9363.2	9411.5	9305.2	9150.7
12.5°	8117.1	8078.5	8136.4	8319.9	8590.4	8848.0	9089.4	8999.3	9256.9	9237.6	8905.9
15°	7556.9	7585.8	7669.6	7840.2	8194.4	8503.4	8809.4	8812.6	9041.2	9118.5	8674.2
17.5°	7164.1	7131.8	7238.1	7492.5	7808.0	8178.3	8526.0	8596.9	8947.8	8992.9	8603.3
20°	6871.1	6916.1	7054.6	7183.4	7547.2	7994.7	8387.5	8413.4	8928.5	9050.8	8490.6
22.5°	6800.2	6774.4	6819.5	7028.8	7328.2	7814.4	8313.5	8410.1	8925.3	9031.5	8278.1
25°	6726.1	6809.8	6806.6	7016.0	7234.9	7669.6	8374.7	8481.0	9095.9	9131.3	8307.1
27.5°	6893.6	6883.9	6974.1	6990.1	7260.6	7708.2	8503.4	8584.0	9379.3	9350.3	8329.6
30°	7061.0	7012.7	7067.4	7257.4	7383.0	7930.4	8857.7	8851.2	9746.3	9727.0	8400.4
32.5°	7267.1	7244.5	7279.9	7447.4	7659.9	8226.6	9157.1	9347.0	10119.8	10242.2	8645.1
35°	7305.7	7399.1	7482.8	7708.2	8010.9	8706.3	9720.5	9878.3	10551.3	10934.4	9112.0
37.5°	7550.4	7585.8	7782.3	8181.5	8458.4	9347.0	10078.0	10177.8	10944.1	11378.7	9604.6
40°	7811.2	7853.1	8149.3	8567.9	8947.8	9765.6	10412.8	10445.1	11069.7	11720.1	9926.7
42.5°	8165.4	8204.0	8497.0	9021.8	9530.6	10123.0	10709.0	10744.4	11060.0	12112.8	10438.6
45°	8532.4	8625.8	8970.4	9566.0	10023.2	10541.6	10776.7	10921.6	11150.1	12463.8	10853.9
47.5°	9047.6	9134.5	9417.9	10000.7	10535.2	10908.7	11089.0	11230.6	11365.9	12769.7	11121.1
50°	9595.0	9611.1	9955.6	10483.7	10876.5	11324.0	11671.7	11720.1	11649.2	13123.9	11575.2
52.5°	9997.5	10048.9	10316.2	10831.4	11417.4	11967.9	12444.5	12496.0	12357.6	13255.9	11729.7
55°	9331.0	9302.0	9736.7	10422.5	11781.2	12927.5	13619.7	13658.3	12872.8	13664.8	12235.2
57.5°	7212.3	7350.8	7721.1	8548.5	10467.6	13352.5	14527.7	14389.3	13490.9	13870.9	12557.2
60°	5241.8	5209.7	5457.6	6011.4	7888.5	11507.6	13735.6	13877.3	12985.5	12502.5	10354.9
62.5°	4269.4	4224.3	4243.7	4263.0	5090.5	7637.4	10168.1	10164.9	10000.7	8986.4	6983.7
65°	3412.9	3519.2	3528.9	3673.8	3780.0	4562.4	5892.2	6207.8	5406.0	4433.7	3216.6
67.5°	2572.6	2534.0	2662.8	3178.0	3377.5	3293.9	3216.6	3252.0	2311.8	1667.9	1571.2
70°	1516.5	1500.4	1655.0	2215.2	2781.9	2617.7	2424.5	2427.7	1587.4	1165.5	1297.6
72.5°	830.7	827.5	859.7	1123.7	1580.9	1642.1	1455.4	1500.4	946.6	943.4	1014.2
75°	463.6	454.0	444.3	495.9	569.9	602.1	614.9	621.4	650.4	727.6	756.6
77.5°	170.6	164.2	164.2	190.0	241.5	302.7	383.2	389.6	460.4	528.1	557.0
80°	57.9	64.4	87.0	119.2	161.0	215.7	260.8	267.3	325.2	370.3	380.0
82.5°	35.4	38.6	57.9	83.7	115.9	151.3	193.2	196.4	241.5	270.5	283.3
85°	16.1	19.3	32.2	51.6	74.1	99.8	103.0	103.0	99.8	103.0	96.6
87.5°	0.0	0.0	6.5	6.5	6.5	9.7	12.9	9.7	16.1	19.3	19.3
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°	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7	9736.7
2.5°	9649.7	9614.3	9504.8	9408.3	9379.3	9250.5	9060.5	9083.1	8944.6	9009.0	8941.3
5°	9517.7	9398.6	9118.5	8999.3	8687.0	8545.3	8448.8	8207.2	8094.5	8072.0	7975.5
7.5°	9179.6	9105.6	8754.6	8432.6	8101.0	7817.7	7453.8	7205.9	7028.8	6980.6	6838.8
10°	8912.4	8748.2	8262.0	7772.6	7299.3	6806.6	6333.3	5963.0	5782.7	5573.5	5502.7
12.5°	8648.3	8400.4	7743.6	7115.8	6504.0	5882.5	5309.4	4858.7	4465.9	4372.4	4340.3
15°	8484.2	8052.7	7279.9	6523.3	5654.0	4842.6	4269.4	3973.2	3731.8	3631.9	3702.8
17.5°	8268.5	7766.1	6835.6	5827.8	4871.6	4124.5	3644.8	3461.3	3374.3	3384.0	3355.0
20°	7998.0	7495.7	6252.8	5196.7	4172.9	3577.2	3303.5	3235.9	3248.8	3271.3	3261.7
22.5°	7804.8	7167.3	5831.1	4552.8	3606.2	3274.5	3161.8	3113.6	3155.4	3174.7	3158.6
25°	7656.6	6887.1	5319.1	3982.9	3277.7	3103.9	3052.3	3049.1	3113.6	3139.3	3123.2
27.5°	7521.4	6626.3	4810.4	3548.2	3058.8	2971.8	2955.8	2994.4	3036.3	3062.0	3084.5
30°	7440.9	6426.7	4333.8	3184.4	2949.3	2907.5	2878.5	2913.9	2936.4	2962.2	2949.3
32.5°	7518.2	6285.0	3873.4	2978.3	2859.1	2817.4	2856.0	2833.4	2872.0	2894.6	2859.1
35°	7759.7	6159.5	3545.0	2868.8	2756.1	2772.3	2778.7	2769.0	2785.1	2765.8	2807.7
37.5°	7998.0	6114.4	3242.3	2775.5	2707.9	2707.9	2701.4	2682.1	2714.3	2707.9	2727.2
40°	8300.7	6143.3	2984.7	2675.6	2662.8	2656.3	2630.6	2627.4	2614.5	2617.7	2624.2
42.5°	8564.7	6207.8	2836.6	2611.2	2620.9	2633.8	2585.5	2546.9	2562.9	2530.7	2530.7
45°	8844.8	6265.7	2704.7	2566.1	2556.6	2553.3	2514.7	2492.1	2479.3	2482.5	2511.5
47.5°	9285.9	6349.5	2604.8	2505.0	2511.5	2463.1	2453.4	2424.5	2437.4	2456.7	2459.9
50°	9598.2	6526.5	2527.5	2434.2	2456.7	2424.5	2366.6	2353.7	2353.7	2385.8	2379.4
52.5°	9817.2	6774.4	2453.4	2356.9	2366.6	2340.8	2321.5	2292.5	2273.1	2318.2	2340.8
55°	10486.8	7186.6	2434.2	2292.5	2289.3	2263.6	2228.1	2199.1	2189.5	2195.9	2241.0
57.5°	10422.5	7057.8	2373.0	2179.8	2173.4	2137.9	2102.5	2092.8	2089.6	2096.1	2109.0
60°	8461.6	5212.9	2118.6	2051.0	2041.4	2034.9	1999.5	1960.9	1941.5	1960.9	1944.7
62.5°	5599.2	3490.2	1867.4	1896.5	1902.9	1886.8	1828.8	1790.2	1796.6	1819.2	1783.8
65°	2749.7	2051.0	1693.6	1770.9	1777.3	1732.2	1677.5	1632.5	1609.9	1629.2	1613.1
67.5°	1571.2	1568.0	1552.0	1632.5	1629.2	1584.1	1497.2	1458.5	1419.9	1426.3	1416.7
70°	1333.0	1358.7	1390.9	1439.3	1436.0	1384.5	1281.5	1252.5	1197.8	1191.4	1175.2
72.5°	1049.7	1094.7	1165.5	1200.9	1172.0	1107.6	1040.0	991.7	943.4	914.4	924.1
75°	779.2	843.6	882.2	904.7	859.7	824.3	769.5	711.6	653.6	627.9	618.2
77.5°	566.7	586.0	621.4	637.5	608.5	573.1	540.9	483.0	428.2	392.8	383.2
80°	396.0	408.9	434.7	434.7	434.7	418.6	376.7	318.7	283.3	251.1	244.7
82.5°	276.9	289.8	315.5	302.7	299.5	280.1	254.4	209.3	170.6	148.1	141.7
85°	96.6	106.2	128.8	154.6	164.2	161.0	144.9	115.9	90.2	74.1	67.6
87.5°	22.5	22.5	25.7	22.5	22.5	25.7	22.5	22.5	22.5	16.1	12.9
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)