

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: P530444

Luminaire Tested: **GALN-SA5C-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530444
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-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 23669 lumens
Efficiency: N/A
Efficacy: 88.0 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

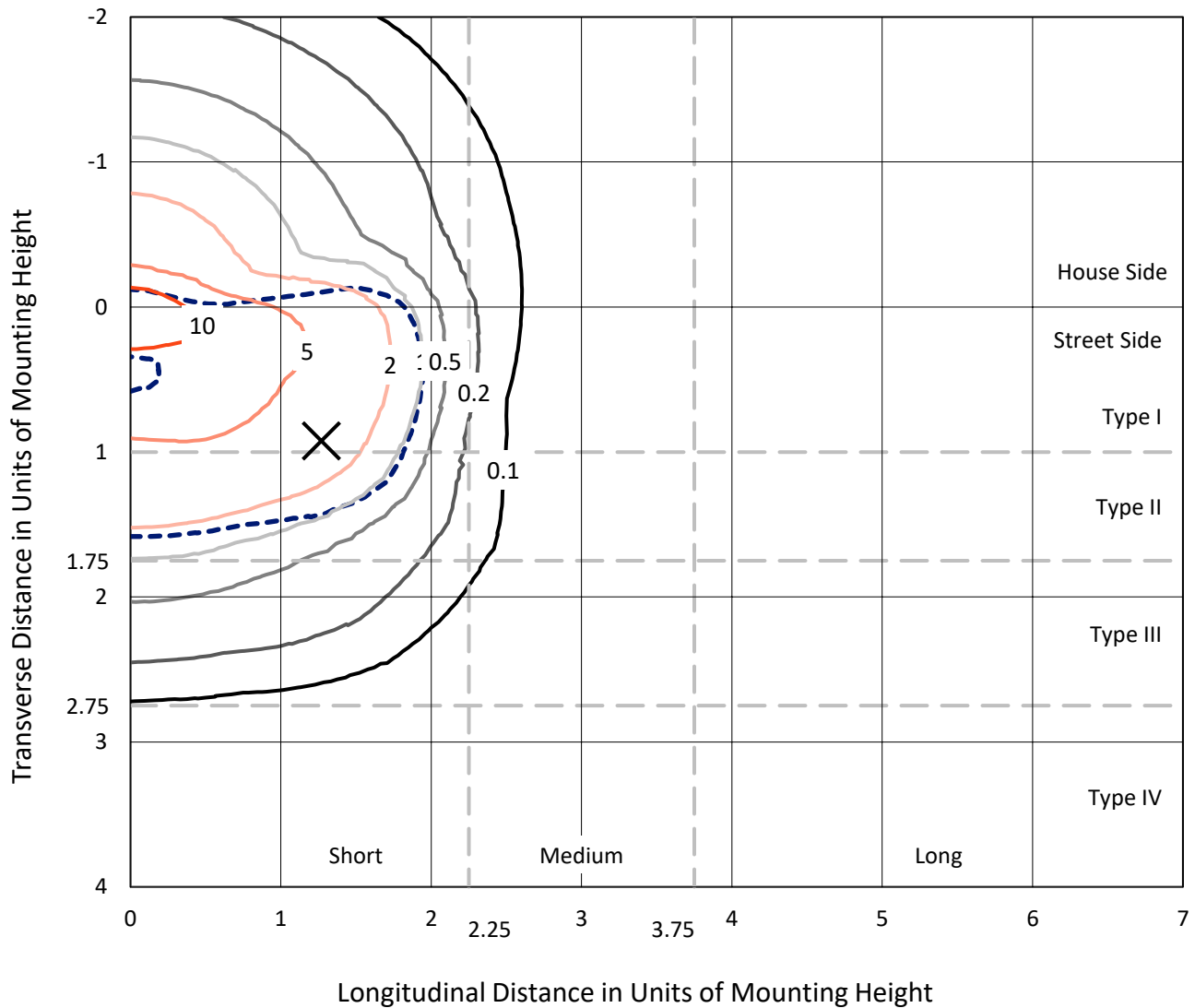


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

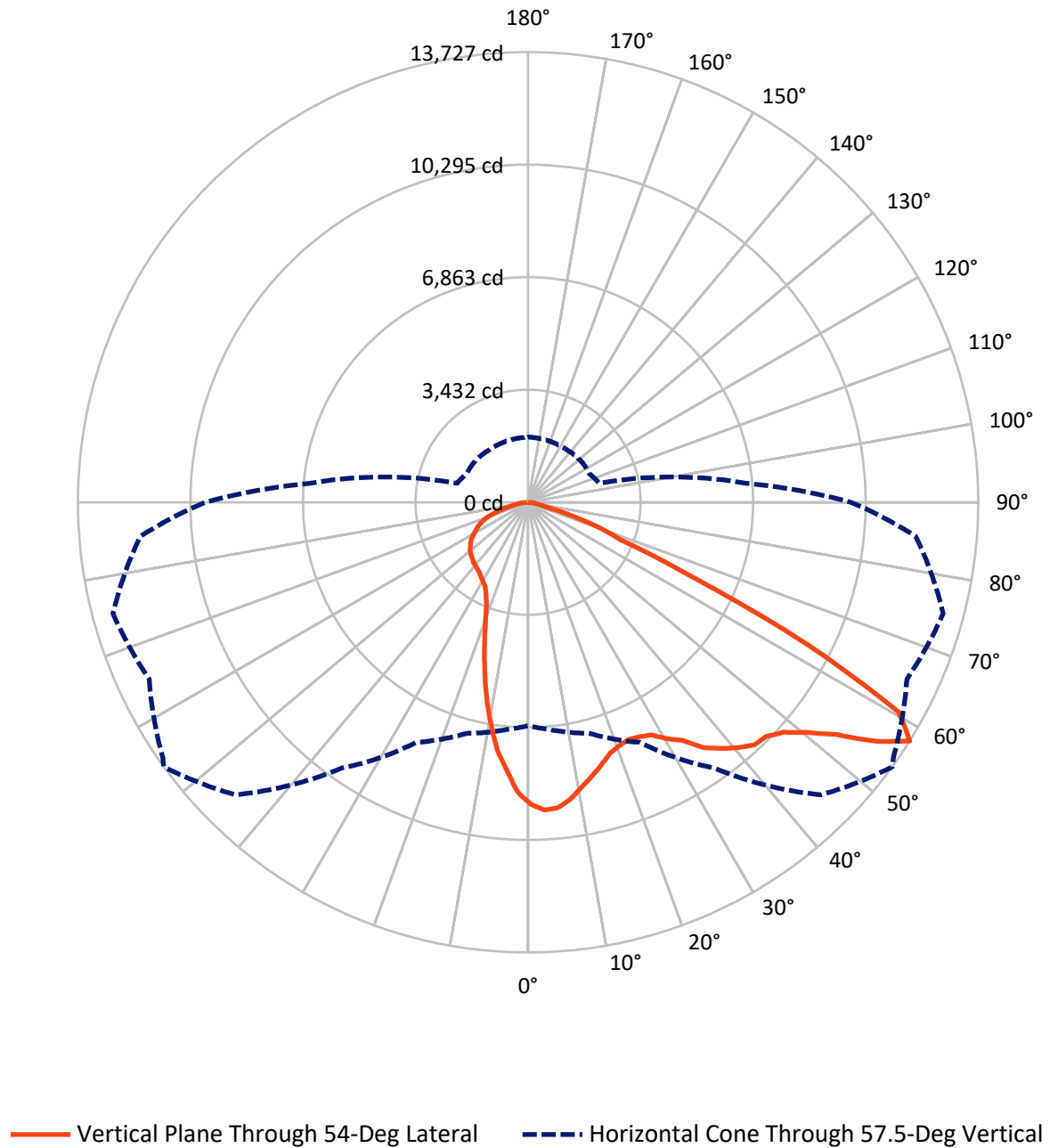


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6548.2	0.0	6548.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17120.8	0.0	17120.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	23669.0	0.0	23669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.4	3.4
10°-20°	1837.0	7.8
20°-30°	2581.0	10.9
30°-40°	3608.3	15.2
40°-50°	4884.9	20.6
50°-60°	5950.1	25.1
60°-70°	3099.0	13.1
70°-80°	794.1	3.4
80°-90°	121.1	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°	23669.0	100.0
0°-180°	23669.0	100.0

Coefficient of Utilization



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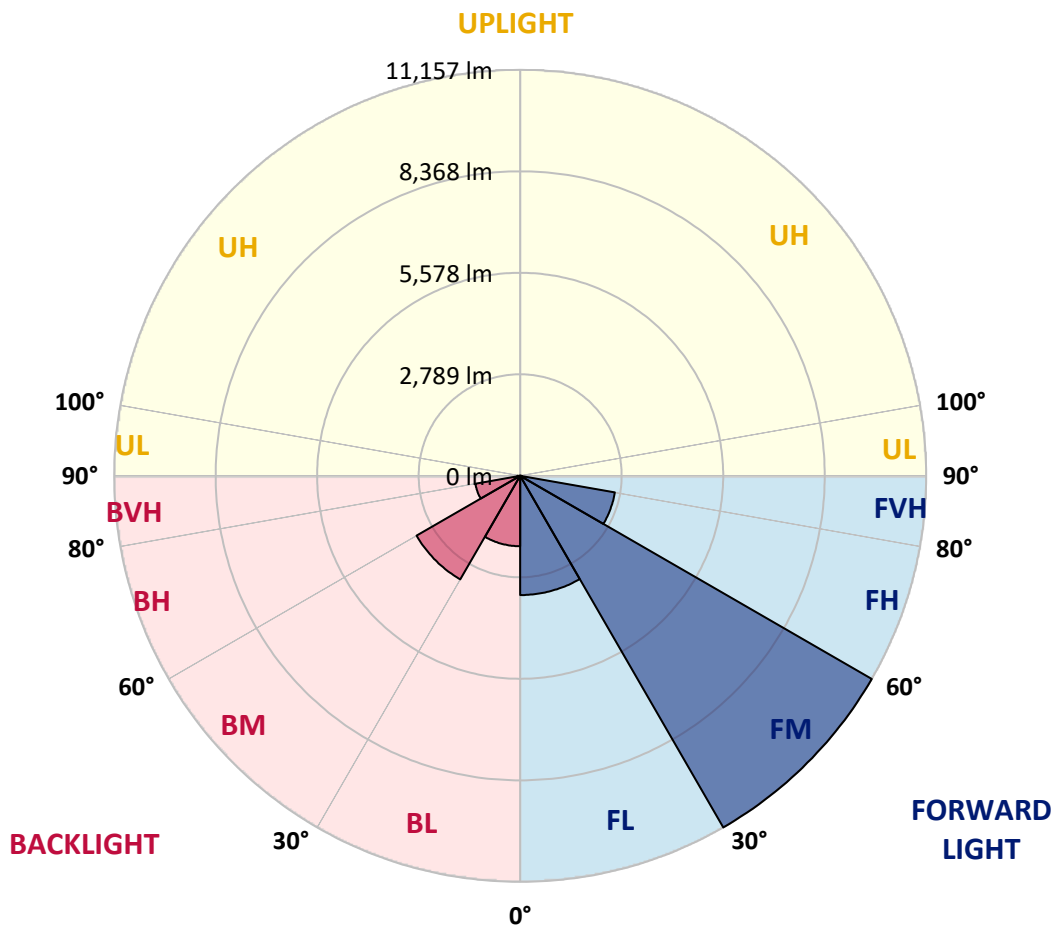
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3276.1	13.8			
FM	(30°-60°)	11156.8	47.1			
FH	(60°-80°)	2642.1	11.2			G2/5000
FVH	(80°-90°)	45.8	0.2			G1/100
BL	(0°-30°)	1935.3	8.2	B3/2500		
BM	(30°-60°)	3286.5	13.9	B3/5000		
BH	(60°-80°)	1251.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	75.4	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°	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9
2.5°	9461.5	9425.0	9431.1	9479.8	9418.9	9394.6	9394.6	9275.9	9285.1	9202.9	9181.6
5°	9242.5	9157.3	9215.1	9288.1	9300.3	9324.6	9364.2	9333.7	9248.5	9160.3	9017.3
7.5°	8670.5	8746.6	8767.9	8819.6	8929.1	9029.5	9154.2	9069.1	9066.0	8977.8	8892.6
10°	8168.5	8122.9	8238.5	8314.6	8497.1	8664.4	8856.1	8847.0	8892.6	8792.2	8646.2
12.5°	7669.6	7633.1	7687.9	7861.3	8116.8	8360.2	8588.4	8503.2	8746.6	8728.3	8415.0
15°	7140.2	7167.6	7246.7	7408.0	7742.6	8034.7	8323.7	8326.7	8542.7	8615.8	8195.9
17.5°	6769.1	6738.7	6839.1	7079.4	7377.5	7727.4	8056.0	8122.9	8454.5	8497.1	8129.0
20°	6492.2	6534.8	6665.6	6787.3	7131.1	7554.0	7925.2	7949.5	8436.3	8551.9	8022.5
22.5°	6425.3	6401.0	6443.6	6641.3	6924.2	7383.6	7855.2	7946.4	8433.2	8533.6	7821.7
25°	6355.3	6434.4	6431.4	6629.1	6836.0	7246.7	7913.0	8013.4	8594.5	8627.9	7849.1
27.5°	6513.5	6504.4	6589.6	6604.8	6860.4	7283.2	8034.7	8110.7	8862.2	8834.8	7870.4
30°	6671.7	6626.1	6677.8	6857.3	6976.0	7493.1	8369.3	8363.2	9209.0	9190.7	7937.3
32.5°	6866.4	6845.1	6878.6	7036.8	7237.6	7773.0	8652.3	8831.8	9561.9	9677.5	8168.5
35°	6902.9	6991.2	7070.3	7283.2	7569.2	8226.3	9184.7	9333.7	9969.6	10331.6	8609.7
37.5°	7134.2	7167.6	7353.2	7730.4	7992.1	8831.8	9522.4	9616.7	10340.7	10751.4	9075.1
40°	7380.6	7420.1	7700.0	8095.5	8454.5	9227.2	9838.7	9869.2	10459.4	11073.9	9379.4
42.5°	7715.2	7751.7	8028.6	8524.5	9005.2	9564.9	10118.6	10152.1	10450.2	11445.1	9863.1
45°	8062.1	8150.3	8475.8	9038.6	9470.6	9960.4	10182.5	10319.4	10535.4	11776.7	10255.5
47.5°	8548.8	8631.0	8898.7	9449.3	9954.4	10307.3	10477.6	10611.5	10739.3	12065.7	10508.1
50°	9066.0	9081.2	9406.7	9905.7	10276.8	10699.7	11028.3	11073.9	11007.0	12400.4	10937.0
52.5°	9446.3	9495.0	9747.5	10234.2	10787.9	11308.2	11758.4	11807.1	11676.3	12525.1	11083.0
55°	8816.5	8789.2	9199.9	9847.9	11131.7	12214.8	12868.9	12905.4	12163.1	12911.5	11560.7
57.5°	6814.7	6945.5	7295.4	8077.3	9890.5	12616.4	13726.8	13596.0	12747.2	13106.2	11864.9
60°	4952.8	4922.4	5156.7	5679.9	7453.6	10873.1	12978.4	13112.2	12269.5	11813.2	9784.0
62.5°	4034.1	3991.5	4009.7	4028.0	4809.9	7216.3	9607.5	9604.5	9449.3	8491.0	6598.7
65°	3224.8	3325.2	3334.3	3471.2	3571.6	4310.9	5567.4	5865.5	5108.0	4189.2	3039.2
67.5°	2430.8	2394.3	2516.0	3002.7	3191.4	3112.3	3039.2	3072.7	2184.4	1575.9	1484.6
70°	1432.9	1417.7	1563.7	2093.1	2628.5	2473.4	2290.8	2293.9	1499.8	1101.3	1226.0
72.5°	784.9	781.9	812.3	1061.8	1493.8	1551.6	1375.1	1417.7	894.4	891.4	958.3
75°	438.1	429.0	419.8	468.5	538.5	568.9	581.1	587.2	614.5	687.6	714.9
77.5°	161.2	155.2	155.2	179.5	228.2	286.0	362.0	368.1	435.0	498.9	526.3
80°	54.8	60.8	82.1	112.6	152.1	203.8	246.4	252.5	307.3	349.9	359.0
82.5°	33.5	36.5	54.8	79.1	109.5	143.0	182.5	185.6	228.2	255.6	267.7
85°	15.2	18.3	30.4	48.7	70.0	94.3	97.4	97.4	94.3	97.4	91.3
87.5°	0.0	0.0	6.1	6.1	6.1	9.1	12.2	9.1	15.2	18.3	18.3
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°	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9	9199.9
2.5°	9117.7	9084.3	8980.8	8889.6	8862.2	8740.5	8561.0	8582.3	8451.5	8512.3	8448.4
5°	8993.0	8880.4	8615.8	8503.2	8208.1	8074.2	7983.0	7754.8	7648.3	7627.0	7535.7
7.5°	8673.6	8603.6	8272.0	7967.7	7654.4	7386.7	7042.9	6808.6	6641.3	6595.7	6461.8
10°	8421.0	8265.9	7806.5	7344.1	6896.9	6431.4	5984.2	5634.3	5463.9	5266.2	5199.3
12.5°	8171.6	7937.3	7316.7	6723.4	6145.4	5558.3	5016.7	4590.8	4219.6	4131.4	4101.0
15°	8016.4	7608.8	6878.6	6163.7	5342.3	4575.6	4034.1	3754.2	3526.0	3431.7	3498.6
17.5°	7812.6	7338.0	6458.8	5506.5	4603.0	3897.2	3443.9	3270.5	3188.3	3197.4	3170.1
20°	7557.0	7082.4	5908.1	4910.2	3942.8	3380.0	3121.4	3057.5	3069.7	3091.0	3081.8
22.5°	7374.5	6772.1	5509.6	4301.8	3407.4	3094.0	2987.5	2941.9	2981.4	2999.7	2984.5
25°	7234.6	6507.4	5025.9	3763.3	3097.0	2932.8	2884.1	2881.0	2941.9	2966.2	2951.0
27.5°	7106.8	6261.0	4545.2	3352.6	2890.2	2808.0	2792.8	2829.3	2868.9	2893.2	2914.5
30°	7030.7	6072.4	4094.9	3008.8	2786.7	2747.2	2719.8	2753.3	2774.6	2798.9	2786.7
32.5°	7103.7	5938.5	3659.9	2814.1	2701.5	2662.0	2698.5	2677.2	2713.7	2735.0	2701.5
35°	7331.9	5819.9	3349.6	2710.7	2604.2	2619.4	2625.5	2616.4	2631.6	2613.3	2652.9
37.5°	7557.0	5777.3	3063.6	2622.4	2558.6	2558.6	2552.5	2534.2	2564.6	2558.6	2576.8
40°	7843.0	5804.7	2820.2	2528.1	2516.0	2509.9	2485.5	2482.5	2470.3	2473.4	2479.5
42.5°	8092.5	5865.5	2680.3	2467.3	2476.4	2488.6	2443.0	2406.4	2421.7	2391.2	2391.2
45°	8357.2	5920.3	2555.5	2424.7	2415.6	2412.5	2376.0	2354.7	2342.6	2345.6	2373.0
47.5°	8773.9	5999.4	2461.2	2366.9	2373.0	2327.3	2318.2	2290.8	2303.0	2321.3	2324.3
50°	9069.1	6166.7	2388.2	2300.0	2321.3	2290.8	2236.1	2223.9	2223.9	2254.3	2248.2
52.5°	9275.9	6401.0	2318.2	2227.0	2236.1	2211.7	2193.5	2166.1	2147.9	2190.4	2211.7
55°	9908.7	6790.4	2300.0	2166.1	2163.1	2138.7	2105.3	2077.9	2068.8	2074.8	2117.4
57.5°	9847.9	6668.7	2242.2	2059.6	2053.5	2020.1	1986.6	1977.5	1974.4	1980.5	1992.7
60°	7995.1	4925.5	2001.8	1937.9	1928.8	1922.7	1889.3	1852.8	1834.5	1852.8	1837.5
62.5°	5290.5	3297.8	1764.5	1791.9	1798.0	1782.8	1728.0	1691.5	1697.6	1718.9	1685.4
65°	2598.1	1937.9	1600.2	1673.3	1679.3	1636.7	1585.0	1542.4	1521.1	1539.4	1524.2
67.5°	1484.6	1481.6	1466.4	1542.4	1539.4	1496.8	1414.7	1378.2	1341.6	1347.7	1338.6
70°	1259.5	1283.8	1314.3	1359.9	1356.9	1308.2	1210.8	1183.4	1131.7	1125.6	1110.4
72.5°	991.8	1034.4	1101.3	1134.8	1107.4	1046.5	982.7	937.0	891.4	864.0	873.1
75°	736.2	797.1	833.6	854.9	812.3	778.8	727.1	672.3	617.6	593.2	584.1
77.5°	535.4	553.7	587.2	602.4	575.0	541.5	511.1	456.3	404.6	371.2	362.0
80°	374.2	386.4	410.7	410.7	410.7	395.5	355.9	301.2	267.7	237.3	231.2
82.5°	261.6	273.8	298.1	286.0	282.9	264.7	240.3	197.7	161.2	139.9	133.9
85°	91.3	100.4	121.7	146.0	155.2	152.1	136.9	109.5	85.2	70.0	63.9
87.5°	21.3	21.3	24.3	21.3	21.3	24.3	21.3	21.3	21.3	15.2	12.2
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)