

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: P530288

Luminaire Tested: **GALN-SA5C-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530288
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-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 27126 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

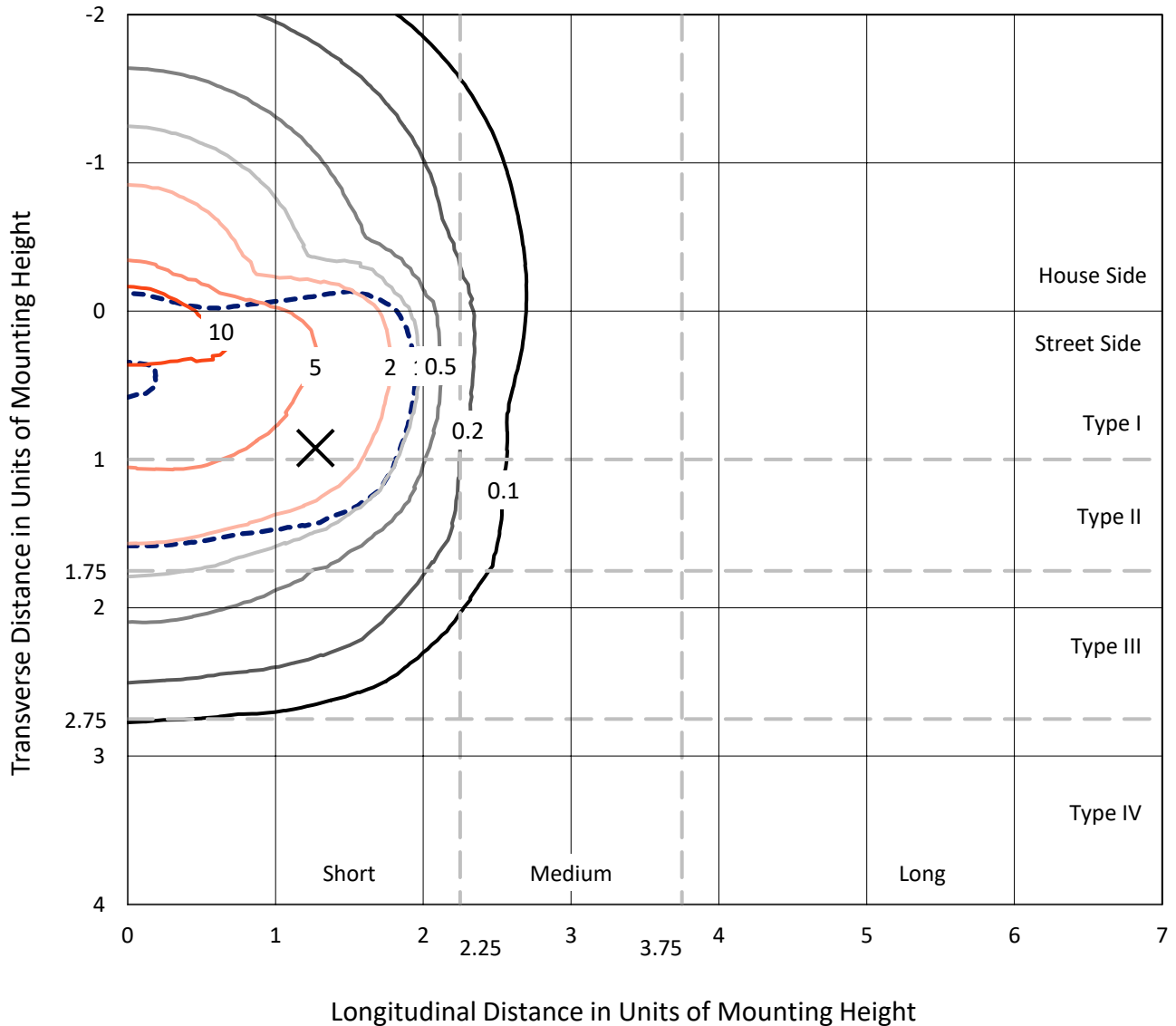
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

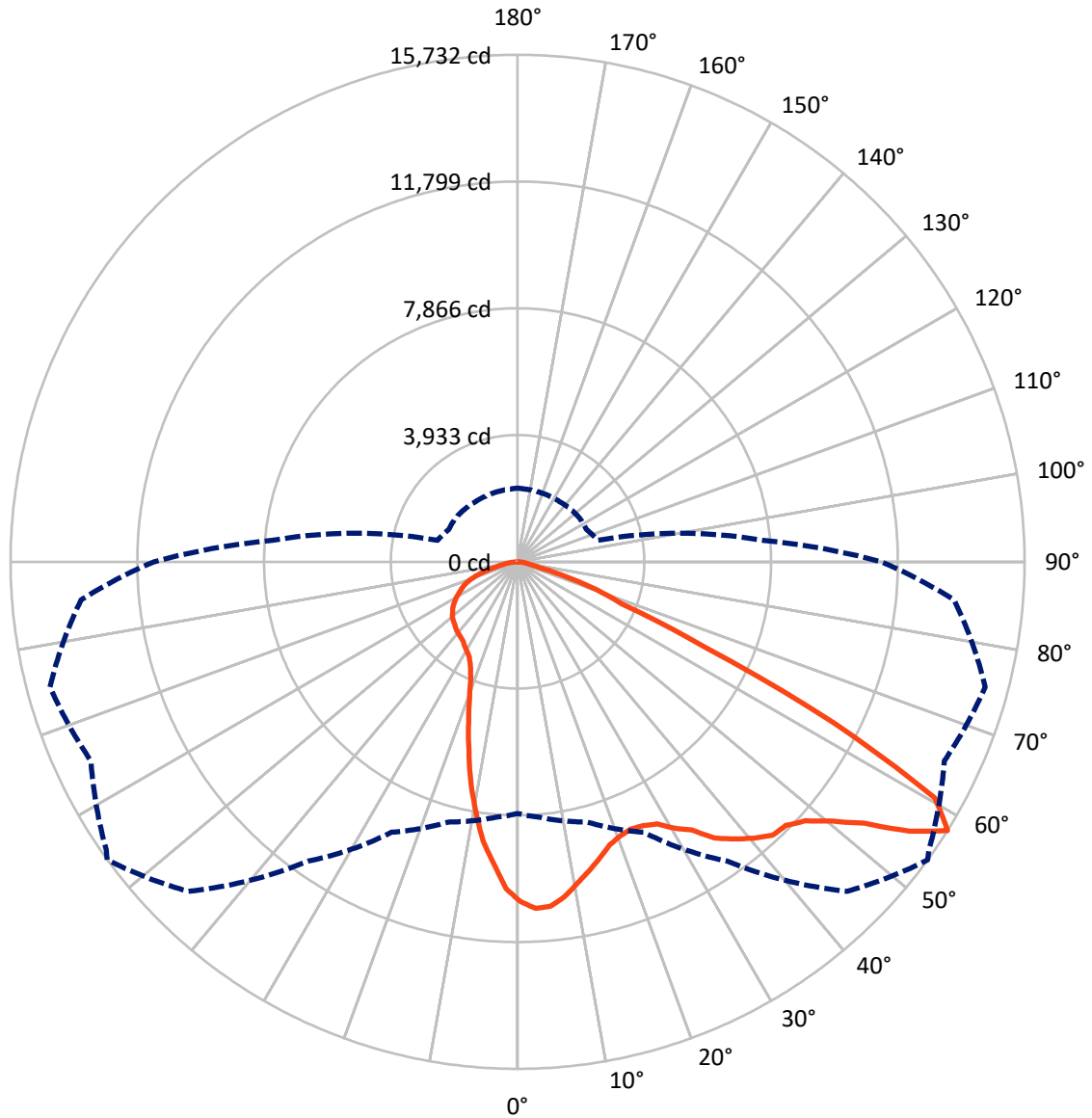
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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	7504.6	0.0	7504.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	19621.4	0.0	19621.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	27126.0	0.0	27126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	909.3	3.4
10°-20°	2105.3	7.8
20°-30°	2958.0	10.9
30°-40°	4135.3	15.2
40°-50°	5598.4	20.6
50°-60°	6819.1	25.1
60°-70°	3551.7	13.1
70°-80°	910.1	3.4
80°-90°	138.8	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°	27126.0	100.0
0°-180°	27126.0	100.0

Coefficient of Utilization

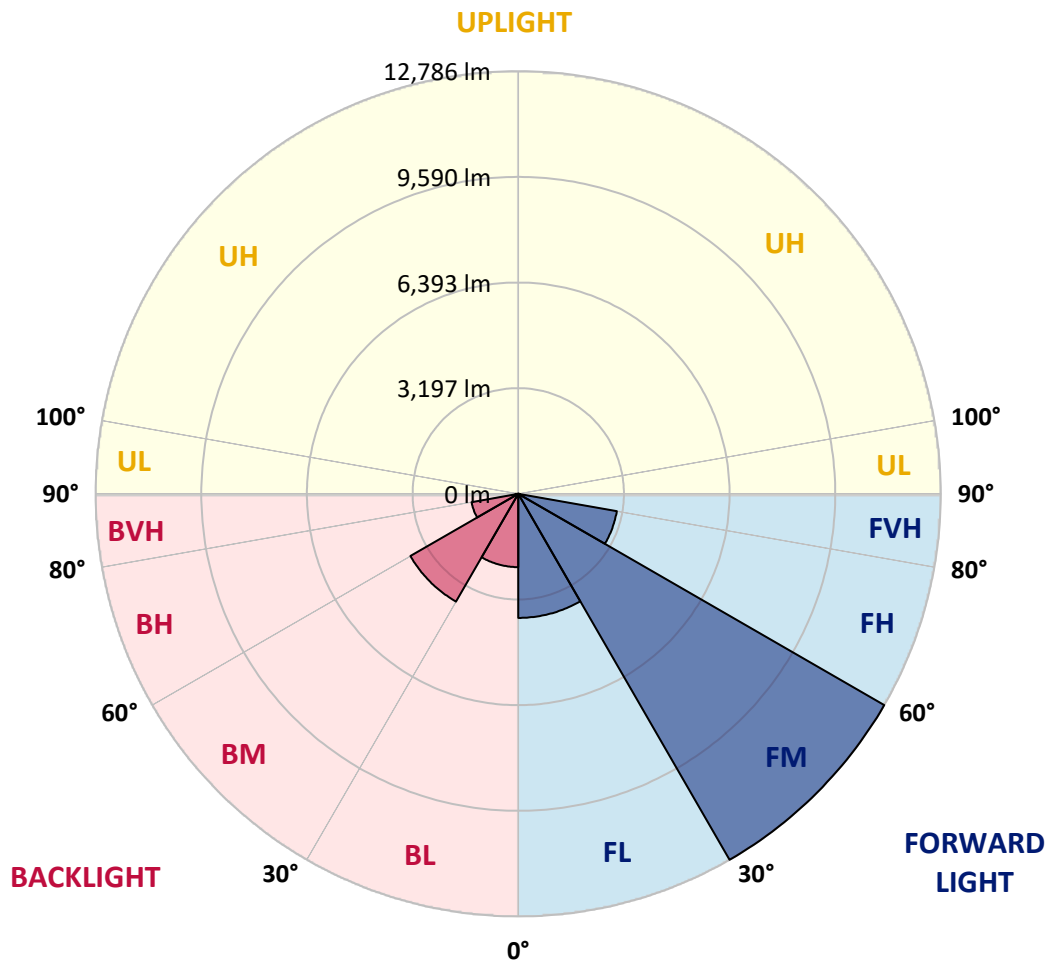


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3754.6	13.8			
FM (30°-60°)	12786.4	47.1			
FH (60°-80°)	3028.0	11.2			G2/5000
FVH (80°-90°)	52.5	0.2			G1/100
BL (0°-30°)	2218.0	8.2	B3/2500		
BM (30°-60°)	3766.5	13.9	B3/5000		
BH (60°-80°)	1433.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	86.4	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°	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6
2.5°	10843.4	10801.6	10808.5	10864.3	10794.6	10766.7	10766.7	10630.7	10641.2	10547.1	10522.6
5°	10592.4	10494.8	10561.0	10644.7	10658.6	10686.5	10731.8	10697.0	10599.4	10498.2	10334.4
7.5°	9936.9	10024.1	10048.5	10107.7	10233.3	10348.3	10491.3	10393.6	10390.2	10289.0	10191.4
10°	9361.6	9309.3	9441.8	9529.0	9738.2	9929.9	10149.6	10139.1	10191.4	10076.4	9909.0
12.5°	8789.8	8748.0	8810.7	9009.4	9302.3	9581.3	9842.8	9745.1	10024.1	10003.1	9644.0
15°	8183.1	8214.5	8305.1	8489.9	8873.5	9208.2	9539.4	9542.9	9790.5	9874.1	9393.0
17.5°	7757.7	7722.9	7837.9	8113.4	8455.1	8856.0	9232.6	9309.3	9689.3	9738.2	9316.3
20°	7440.5	7489.3	7639.2	7778.7	8172.7	8657.3	9082.7	9110.6	9668.4	9800.9	9194.2
22.5°	7363.8	7335.9	7384.7	7611.3	7935.6	8462.0	9002.5	9107.1	9664.9	9780.0	8964.1
25°	7283.6	7374.2	7370.7	7597.4	7834.5	8305.1	9068.7	9183.8	9849.7	9888.1	8995.5
27.5°	7464.9	7454.4	7552.0	7569.5	7862.3	8347.0	9208.2	9295.4	10156.5	10125.2	9019.9
30°	7646.2	7593.9	7653.2	7858.9	7994.8	8587.6	9591.7	9584.7	10554.0	10533.1	9096.6
32.5°	7869.3	7844.9	7883.3	8064.6	8294.7	8908.3	9916.0	10121.7	10958.5	11091.0	9361.6
35°	7911.2	8012.3	8102.9	8347.0	8674.7	9427.8	10526.1	10697.0	11425.7	11840.6	9867.2
37.5°	8176.1	8214.5	8427.2	8859.5	9159.4	10121.7	10913.1	11021.2	11851.1	12321.7	10400.6
40°	8458.6	8503.9	8824.7	9277.9	9689.3	10574.9	11275.8	11310.6	11987.0	12691.3	10749.3
42.5°	8842.1	8883.9	9201.2	9769.5	10320.4	10962.0	11596.5	11634.9	11976.6	13116.7	11303.7
45°	9239.6	9340.7	9713.7	10358.8	10853.9	11415.2	11669.7	11826.6	12074.2	13496.7	11753.4
47.5°	9797.4	9891.6	10198.4	10829.5	11408.2	11812.7	12007.9	12161.4	12307.8	13828.0	12042.8
50°	10390.2	10407.6	10780.7	11352.5	11777.8	12262.5	12639.0	12691.3	12614.6	14211.5	12534.4
52.5°	10826.0	10881.8	11171.2	11729.0	12363.6	12959.8	13475.8	13531.6	13381.7	14354.5	12701.8
55°	10104.3	10072.9	10543.6	11286.2	12757.6	13998.8	14748.4	14790.3	13939.5	14797.3	13249.2
57.5°	7810.0	7960.0	8360.9	9257.0	11335.0	14459.0	15731.7	15581.7	14609.0	15020.4	13597.9
60°	5676.2	5641.4	5909.8	6509.5	8542.2	12461.2	14874.0	15027.4	14061.6	13538.6	11213.0
62.5°	4623.3	4574.5	4595.4	4616.3	5512.4	8270.3	11010.8	11007.3	10829.5	9731.2	7562.5
65°	3695.8	3810.9	3821.3	3978.2	4093.3	4940.6	6380.5	6722.2	5854.0	4801.1	3483.1
67.5°	2785.8	2744.0	2883.4	3441.3	3657.5	3566.8	3483.1	3521.5	2503.4	1806.1	1701.5
70°	1642.2	1624.8	1792.1	2398.8	3012.4	2834.6	2625.4	2628.9	1718.9	1262.2	1405.1
72.5°	899.6	896.1	930.9	1216.8	1711.9	1778.2	1576.0	1624.8	1025.1	1021.6	1098.3
75°	502.1	491.6	481.2	536.9	617.1	652.0	665.9	672.9	704.3	788.0	819.4
77.5°	184.8	177.8	177.8	205.7	261.5	327.7	414.9	421.9	498.6	571.8	603.2
80°	62.8	69.7	94.1	129.0	174.3	233.6	282.4	289.4	352.1	401.0	411.4
82.5°	38.4	41.8	62.8	90.7	125.5	163.9	209.2	212.7	261.5	292.9	306.8
85°	17.4	20.9	34.9	55.8	80.2	108.1	111.6	111.6	108.1	111.6	104.6
87.5°	0.0	0.0	7.0	7.0	7.0	10.5	13.9	10.5	17.4	20.9	20.9
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°	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6	10543.6
2.5°	10449.4	10411.1	10292.5	10187.9	10156.5	10017.1	9811.4	9835.8	9685.9	9755.6	9682.4
5°	10306.5	10177.5	9874.1	9745.1	9406.9	9253.5	9148.9	8887.4	8765.4	8741.0	8636.4
7.5°	9940.4	9860.2	9480.1	9131.5	8772.4	8465.5	8071.5	7803.1	7611.3	7559.0	7405.6
10°	9651.0	9473.2	8946.7	8416.7	7904.2	7370.7	6858.2	6457.2	6262.0	6035.4	5958.6
12.5°	9365.1	9096.6	8385.3	7705.4	7043.0	6370.1	5749.5	5261.3	4836.0	4734.8	4700.0
15°	9187.3	8720.1	7883.3	7063.9	6122.5	5243.9	4623.3	4302.5	4041.0	3932.9	4009.6
17.5°	8953.7	8409.7	7402.1	6310.8	5275.3	4466.4	3946.9	3748.1	3654.0	3664.4	3633.1
20°	8660.8	8116.9	6771.0	5627.4	4518.7	3873.6	3577.3	3504.1	3518.0	3542.4	3532.0
22.5°	8451.6	7761.2	6314.3	4930.1	3905.0	3545.9	3423.9	3371.6	3416.9	3437.8	3420.4
25°	8291.2	7457.9	5759.9	4313.0	3549.4	3361.1	3305.3	3301.8	3371.6	3399.5	3382.0
27.5°	8144.8	7175.5	5209.0	3842.3	3312.3	3218.2	3200.7	3242.6	3287.9	3315.8	3340.2
30°	8057.6	6959.3	4693.0	3448.3	3193.8	3148.4	3117.0	3155.4	3179.8	3207.7	3193.8
32.5°	8141.3	6805.9	4194.4	3225.1	3096.1	3050.8	3092.6	3068.2	3110.1	3134.5	3096.1
35°	8402.8	6669.9	3838.8	3106.6	2984.6	3002.0	3009.0	2998.5	3015.9	2995.0	3040.3
37.5°	8660.8	6621.1	3511.0	3005.5	2932.3	2932.3	2925.3	2904.4	2939.2	2932.3	2953.2
40°	8988.5	6652.5	3232.1	2897.4	2883.4	2876.5	2848.6	2845.1	2831.1	2834.6	2841.6
42.5°	9274.4	6722.2	3071.7	2827.7	2838.1	2852.1	2799.8	2757.9	2775.4	2740.5	2740.5
45°	9577.8	6785.0	2928.8	2778.8	2768.4	2764.9	2723.1	2698.7	2684.7	2688.2	2719.6
47.5°	10055.4	6875.6	2820.7	2712.6	2719.6	2667.3	2656.8	2625.4	2639.4	2660.3	2663.8
50°	10393.6	7067.4	2737.0	2635.9	2660.3	2625.4	2562.7	2548.7	2548.7	2583.6	2576.6
52.5°	10630.7	7335.9	2656.8	2552.2	2562.7	2534.8	2513.9	2482.5	2461.6	2510.4	2534.8
55°	11356.0	7782.2	2635.9	2482.5	2479.0	2451.1	2412.7	2381.4	2370.9	2377.9	2426.7
57.5°	11286.2	7642.7	2569.6	2360.4	2353.5	2315.1	2276.8	2266.3	2262.8	2269.8	2283.7
60°	9162.9	5644.9	2294.2	2221.0	2210.5	2203.5	2165.2	2123.4	2102.4	2123.4	2105.9
62.5°	6063.2	3779.5	2022.2	2053.6	2060.6	2043.2	1980.4	1938.6	1945.5	1969.9	1931.6
65°	2977.6	2221.0	1834.0	1917.6	1924.6	1875.8	1816.5	1767.7	1743.3	1764.2	1746.8
67.5°	1701.5	1698.0	1680.6	1767.7	1764.2	1715.4	1621.3	1579.4	1537.6	1544.6	1534.1
70°	1443.5	1471.4	1506.2	1558.5	1555.0	1499.3	1387.7	1356.3	1297.0	1290.1	1272.6
72.5°	1136.6	1185.5	1262.2	1300.5	1269.1	1199.4	1126.2	1073.9	1021.6	990.2	1000.7
75°	843.8	913.5	955.3	979.7	930.9	892.6	833.3	770.5	707.8	679.9	669.4
77.5°	613.6	634.6	672.9	690.4	659.0	620.6	585.8	523.0	463.7	425.4	414.9
80°	428.9	442.8	470.7	470.7	470.7	453.3	407.9	345.2	306.8	272.0	265.0
82.5°	299.9	313.8	341.7	327.7	324.3	303.3	275.4	226.6	184.8	160.4	153.4
85°	104.6	115.1	139.5	167.4	177.8	174.3	156.9	125.5	97.6	80.2	73.2
87.5°	24.4	24.4	27.9	24.4	24.4	27.9	24.4	24.4	24.4	17.4	13.9
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)