

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: P531586

Luminaire Tested: **GALN-SA6D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28583 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

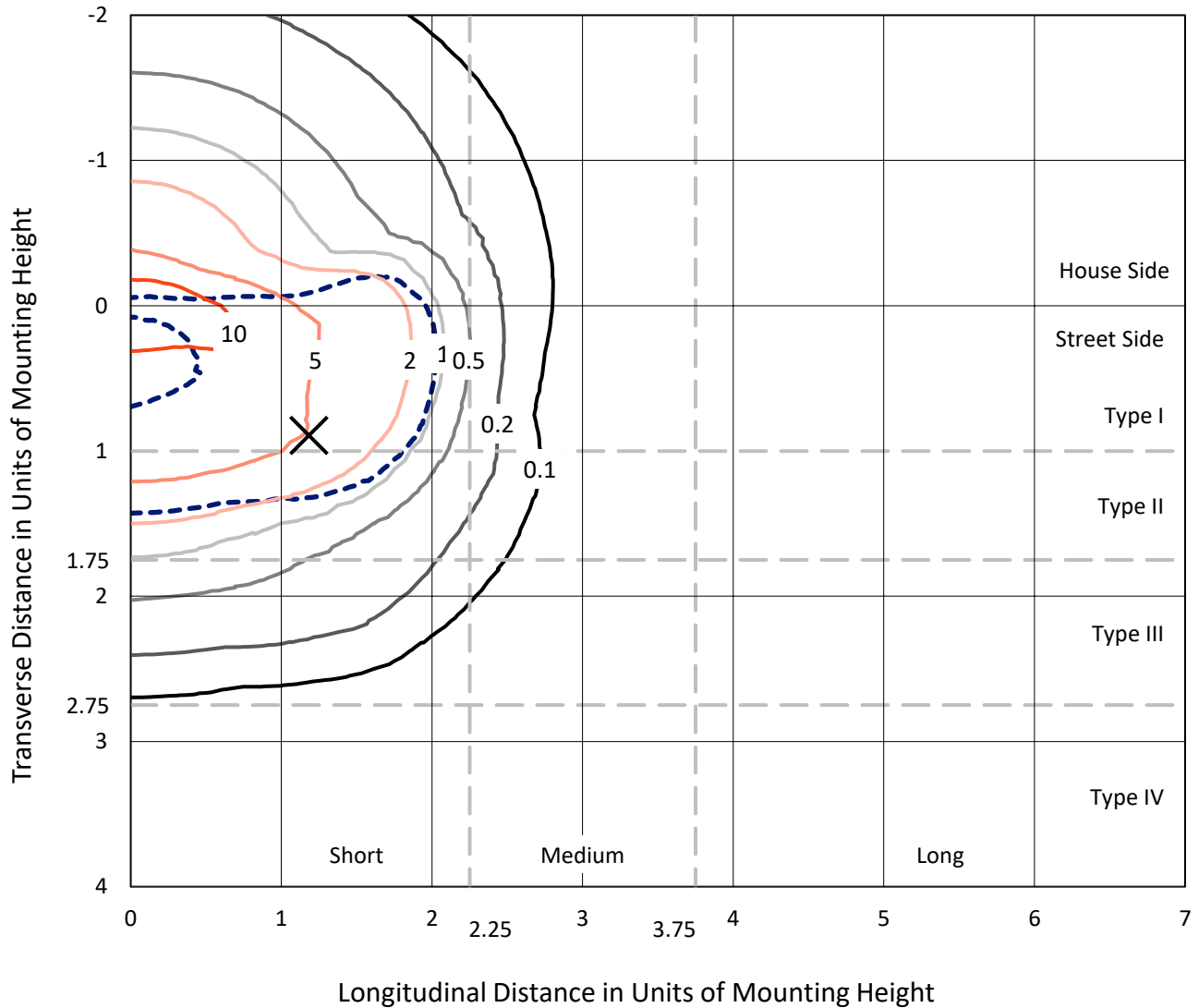
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

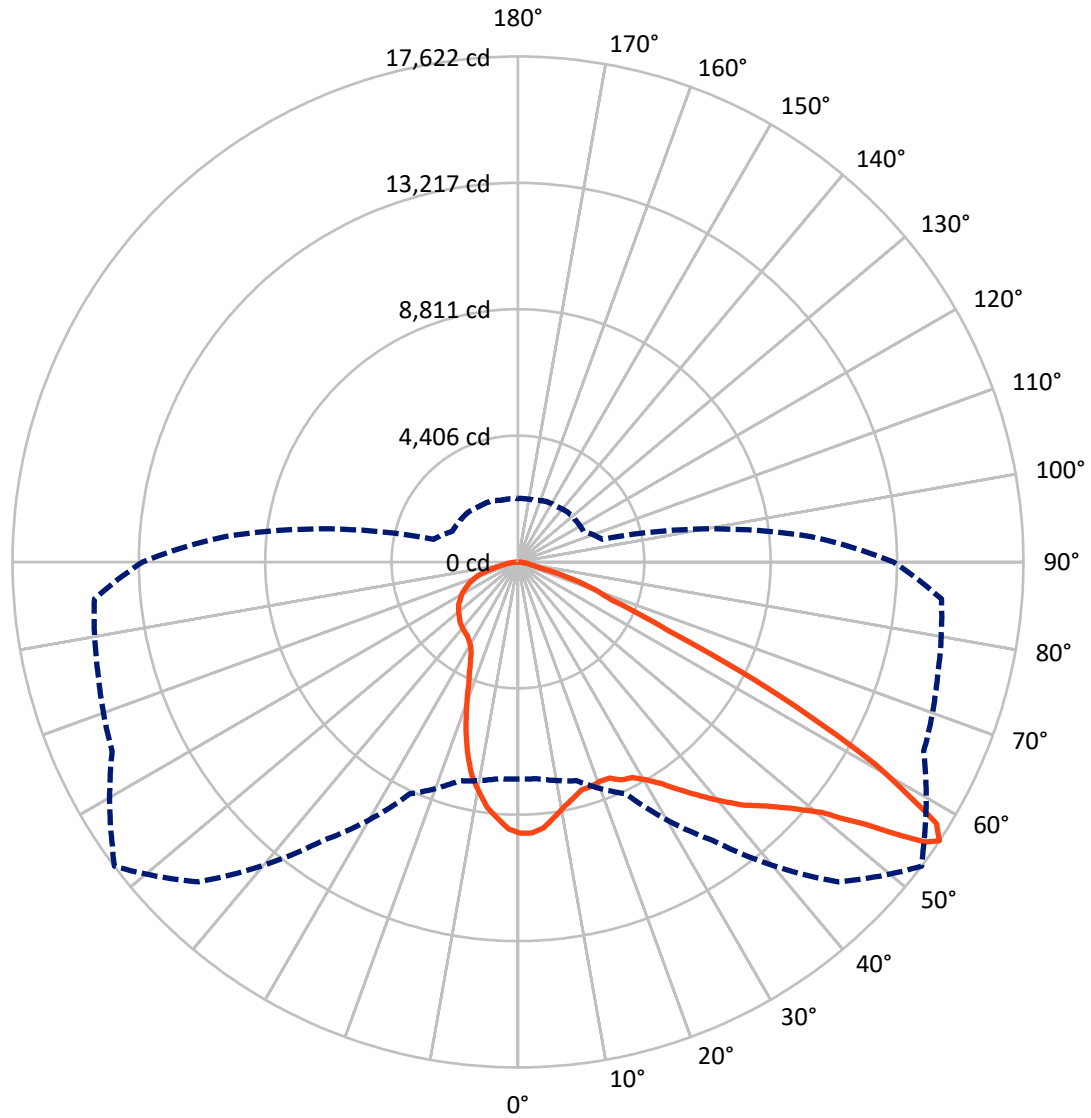
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8341.1	0.0	8341.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	20241.9	0.0	20241.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	28583.0	0.0	28583.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.2	2.9
10°-20°	2090.9	7.3
20°-30°	3083.2	10.8
30°-40°	4405.2	15.4
40°-50°	6063.2	21.2
50°-60°	7165.1	25.1
60°-70°	3818.5	13.4
70°-80°	968.7	3.4
80°-90°	151.1	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°	28583.0	100.0
0°-180°	28583.0	100.0



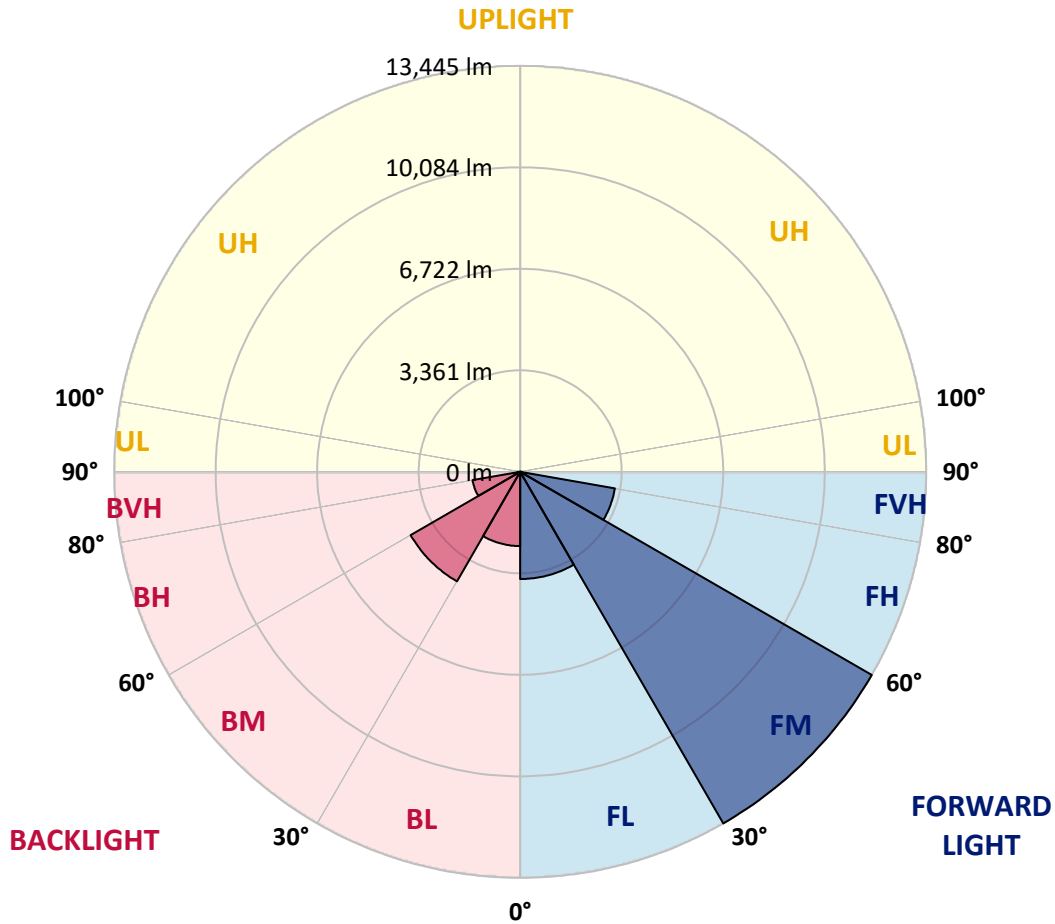
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3551.0	12.4			
FM (30°-60°)	13444.9	47.0			
FH (60°-80°)	3185.2	11.1			G2/5000
FVH (80°-90°)	60.7	0.2			G1/100
BL (0°-30°)	2460.1	8.6	B3/2500		
BM (30°-60°)	4188.6	14.7	B3/5000		
BH (60°-80°)	1602.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	90.3	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°	53°	55°	65°	75°	85°
0°	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4
2.5°	9339.0	9258.4	9306.0	9287.7	9438.0	9482.0	9460.0	9478.4	9562.7	9522.4	9438.0
5°	8726.7	8840.4	8862.4	8917.4	9005.4	9177.7	9313.4	9350.0	9390.4	9577.4	9559.1
7.5°	8169.4	8246.4	8206.0	8367.4	8558.0	8836.7	9001.7	9031.0	9401.4	9504.0	9581.1
10°	7817.4	7740.4	7923.7	7967.7	8184.0	8503.0	8701.0	8822.0	9159.4	9566.4	9614.1
12.5°	7491.0	7465.4	7575.4	7700.0	7942.0	8272.0	8473.7	8521.4	9042.0	9471.0	9694.7
15°	7249.0	7219.7	7329.7	7421.4	7703.7	7997.0	8253.7	8389.4	8913.7	9416.0	9625.1
17.5°	7058.4	7054.7	7117.0	7282.0	7571.7	7817.4	8231.7	8239.0	8847.7	9500.4	9683.7
20°	7047.4	7043.7	7054.7	7238.0	7502.0	7802.7	8162.0	8228.0	8847.7	9441.7	9687.4
22.5°	7139.0	7080.4	7146.4	7263.7	7454.4	7828.4	8187.7	8334.4	9060.4	9731.4	9852.4
25°	7285.7	7300.4	7337.0	7377.4	7487.4	7887.0	8415.0	8536.0	9309.7	9980.7	10079.7
27.5°	7553.4	7546.0	7560.7	7582.7	7678.0	7942.0	8506.7	8818.4	9830.4	10424.4	10325.4
30°	7945.7	7920.0	7978.7	8055.7	7967.7	8118.0	8811.0	9045.7	10314.4	10871.7	10600.4
32.5°	8301.4	8396.7	8506.7	8539.7	8433.4	8462.7	9214.4	9452.7	10717.7	11421.7	10937.7
35°	8745.0	8822.0	8968.7	9071.4	9053.0	8965.0	9764.4	10079.7	11300.7	11825.1	11293.4
37.5°	9177.7	9269.4	9511.4	9815.7	9647.1	9606.7	10351.1	10611.4	11480.4	12041.4	11553.7
40°	9874.4	9870.7	10288.7	10446.4	10596.7	10527.1	10959.7	11047.7	11575.7	11993.7	11561.1
42.5°	10692.1	10640.7	11066.1	11311.7	11506.1	11513.4	11594.1	11564.7	11619.7	11751.7	11484.1
45°	11469.4	11579.4	12008.4	12448.4	12642.7	12664.7	12129.4	12074.4	11696.7	11682.1	11337.4
47.5°	12419.1	12444.7	12796.7	13376.1	13827.1	13673.1	12822.4	12701.4	12034.1	12147.7	11583.1
50°	12474.1	12664.7	12980.1	13662.1	15048.1	15007.7	13720.7	13493.4	12576.7	12807.7	12268.7
52.5°	11322.7	11278.7	11652.7	12767.4	14956.4	16335.1	15209.4	14666.7	13742.7	13566.7	13379.7
55°	8627.7	8730.4	9060.4	10186.1	12987.4	16353.4	17237.1	16793.4	14989.4	14688.7	14472.4
56°	7568.0	7582.7	7894.4	8921.0	11850.7	15770.4	17622.1	17262.8	15609.1	15150.7	14820.7
57.5°	6273.7	6189.4	6350.7	6911.7	10002.7	14538.4	17200.4	17552.4	16335.1	15649.4	15191.1
60°	4939.0	4920.7	4854.7	4957.4	6321.4	10952.4	14318.4	15110.4	16261.8	15180.1	14549.4
62.5°	4033.4	3941.7	4073.7	4220.4	4392.7	6794.4	10061.4	10527.1	12910.4	12118.4	10930.4
65°	3127.7	3083.7	3248.7	3725.4	3828.0	4315.7	5731.0	6090.4	7623.0	7487.4	6592.7
67.5°	2152.3	2159.7	2302.7	3028.7	3549.4	3505.4	3509.0	3696.0	3978.4	2955.3	2574.0
70°	1364.0	1360.3	1437.3	1950.7	2856.3	2885.7	2739.0	2684.0	2544.7	1540.0	1631.7
72.5°	876.3	850.7	891.0	1078.0	1477.7	1708.7	1760.0	1793.0	1474.0	1210.0	1312.7
75°	495.0	469.3	454.7	502.3	583.0	674.7	740.7	762.7	854.3	916.7	971.7
77.5°	150.3	135.7	165.0	220.0	289.7	388.7	473.0	487.7	575.7	649.0	704.0
80°	66.0	73.3	102.7	146.7	205.3	275.0	333.7	355.7	414.3	469.3	484.0
82.5°	40.3	44.0	69.7	99.0	143.0	194.3	238.3	245.7	304.3	348.3	359.3
85°	14.7	18.3	36.7	58.7	91.7	124.7	124.7	135.7	124.7	124.7	135.7
87.5°	0.0	0.0	3.7	7.3	7.3	11.0	14.7	14.7	18.3	22.0	25.7
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°	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4	9456.4
2.5°	9482.0	9463.7	9434.4	9328.0	9317.0	9284.0	9100.7	9071.4	9100.7	9012.7	9020.0
5°	9463.7	9518.7	9298.7	9192.4	8994.4	8851.4	8686.4	8602.0	8451.7	8356.4	8462.7
7.5°	9544.4	9522.4	9247.4	9016.4	8719.4	8356.4	8066.7	7901.7	7637.7	7564.4	7619.4
10°	9515.0	9397.7	9075.0	8770.7	8209.7	7890.7	7421.4	6966.7	6717.4	6589.0	6570.7
12.5°	9474.7	9441.7	8902.7	8378.4	7788.0	7117.0	6457.0	6028.0	5621.0	5445.0	5470.7
15°	9522.4	9243.7	8580.0	7916.4	7131.7	6251.7	5540.4	4986.7	4704.4	4590.7	4590.7
17.5°	9500.4	9148.4	8426.0	7399.4	6405.7	5364.4	4583.4	4249.7	4132.4	4132.4	4165.4
20°	9511.4	9210.7	8114.4	6882.4	5547.7	4517.4	3949.0	3828.0	3879.4	3897.7	3916.0
22.5°	9573.7	9005.4	7810.0	6314.0	4752.0	3864.7	3586.0	3589.7	3681.4	3780.4	3762.0
25°	9650.7	8924.7	7439.7	5749.4	4143.4	3545.7	3457.7	3446.7	3516.4	3567.7	3575.0
27.5°	9584.7	8785.4	7062.0	5045.4	3644.7	3333.0	3314.7	3322.0	3344.0	3446.7	3413.7
30°	9801.1	8825.7	6589.0	4455.0	3369.7	3263.4	3241.4	3230.4	3263.4	3292.7	3267.0
32.5°	10068.7	8682.7	6237.0	3886.7	3234.0	3212.0	3168.0	3153.3	3171.7	3142.3	3157.0
35°	10186.1	8657.0	5778.7	3479.7	3127.7	3109.3	3083.7	3080.0	3083.7	3058.0	3036.0
37.5°	10252.1	8778.0	5254.4	3292.7	3061.7	3080.0	3021.3	3014.0	2948.0	2962.7	2973.7
40°	10365.7	8591.0	4829.0	3113.0	3021.3	2984.7	2933.3	2922.3	2878.3	2852.7	2878.3
42.5°	10200.7	8536.0	4411.0	3036.0	2962.7	2922.3	2885.7	2823.3	2808.7	2786.7	2772.0
45°	10068.7	8220.7	4037.0	2940.7	2893.0	2871.0	2801.3	2735.3	2680.3	2702.3	2669.3
47.5°	10167.7	8110.7	3666.7	2860.0	2797.7	2772.0	2702.3	2651.0	2596.0	2570.3	2563.0
50°	10563.7	8316.0	3355.0	2801.3	2717.0	2702.3	2610.7	2552.0	2500.7	2482.3	2489.7
52.5°	11509.7	8877.0	3142.3	2680.3	2640.0	2574.0	2522.7	2449.3	2416.3	2357.7	2394.3
55°	12708.7	9790.1	3087.3	2566.7	2544.7	2486.0	2416.3	2361.3	2299.0	2251.3	2240.3
56°	13093.7	10226.4	3043.3	2522.7	2486.0	2453.0	2361.3	2328.3	2229.3	2218.3	2211.0
57.5°	13405.4	10611.4	3050.7	2438.3	2401.7	2372.3	2317.3	2236.7	2170.7	2130.3	2148.7
60°	12701.4	9933.1	2911.3	2310.0	2302.7	2247.7	2170.7	2134.0	2053.3	2005.7	1994.7
62.5°	9441.7	6743.0	2361.3	2145.0	2141.3	2082.7	1994.7	1954.3	1939.7	1873.7	1873.7
65°	5437.7	4227.7	2042.3	2009.3	1980.0	1921.3	1833.3	1800.3	1763.7	1741.7	1723.3
67.5°	2321.0	2192.7	1855.3	1851.7	1818.7	1745.3	1657.3	1606.0	1558.3	1514.3	1536.3
70°	1683.0	1708.7	1675.7	1657.3	1617.0	1525.3	1448.3	1386.0	1312.7	1283.3	1305.3
72.5°	1334.7	1389.7	1437.3	1441.0	1393.3	1287.0	1202.7	1118.3	1037.7	997.3	1015.7
75°	1012.0	1048.7	1096.3	1107.3	1037.7	964.3	883.7	795.7	733.3	685.7	693.0
77.5°	729.7	722.3	766.3	759.0	726.0	674.7	601.3	520.7	451.0	407.0	410.7
80°	498.7	509.7	535.3	531.7	491.3	458.3	403.3	337.3	286.0	249.3	242.0
82.5°	348.3	366.7	388.7	370.3	337.3	304.3	264.0	216.3	176.0	146.7	139.3
85°	124.7	143.0	165.0	176.0	187.0	179.7	150.3	121.0	88.0	73.3	69.7
87.5°	25.7	29.3	33.0	33.0	33.0	29.3	25.7	25.7	22.0	11.0	11.0
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)