

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: P531040

Luminaire Tested: **GALN-SA6B-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531040
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-SA6B-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA 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: 28599 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

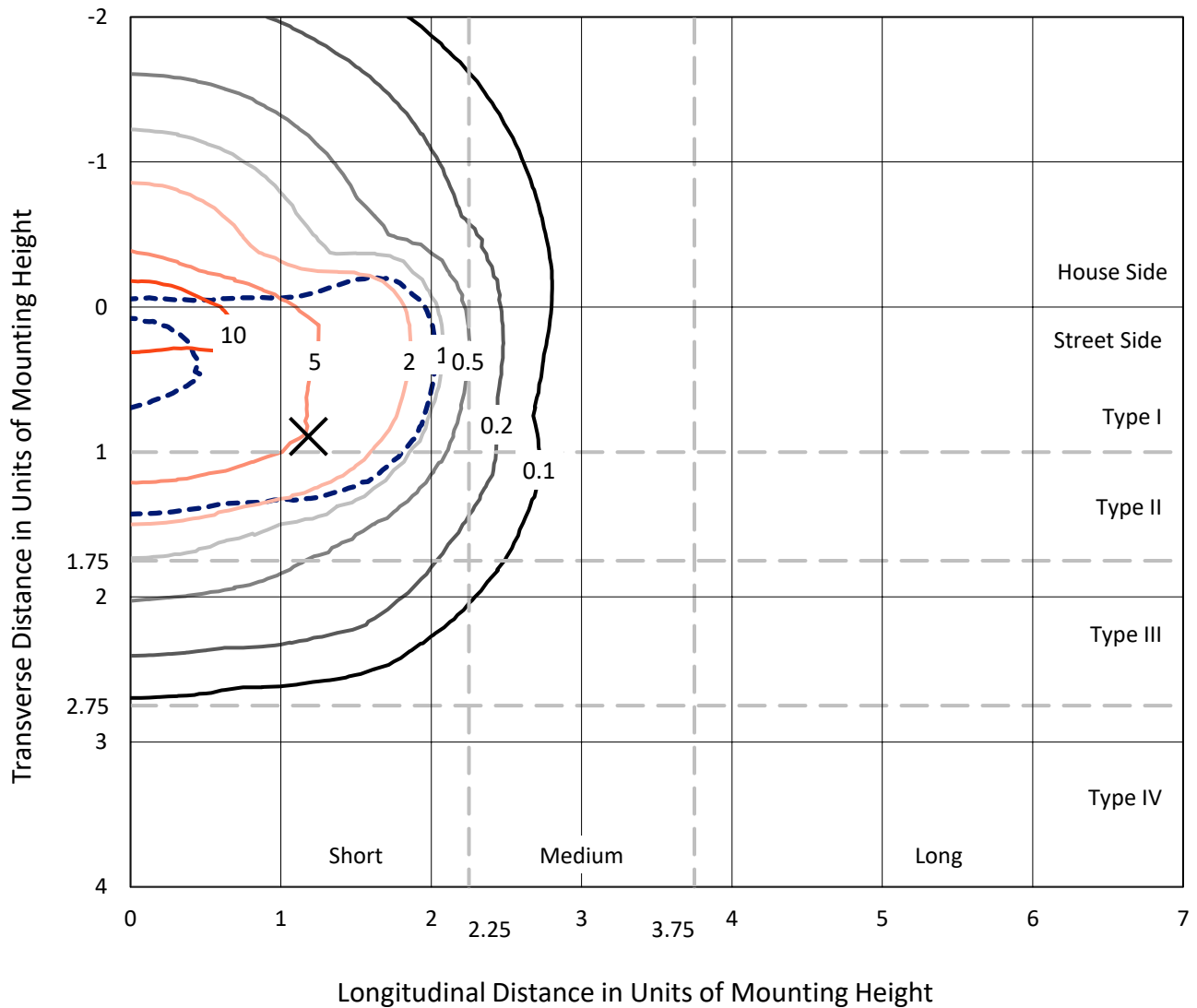
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

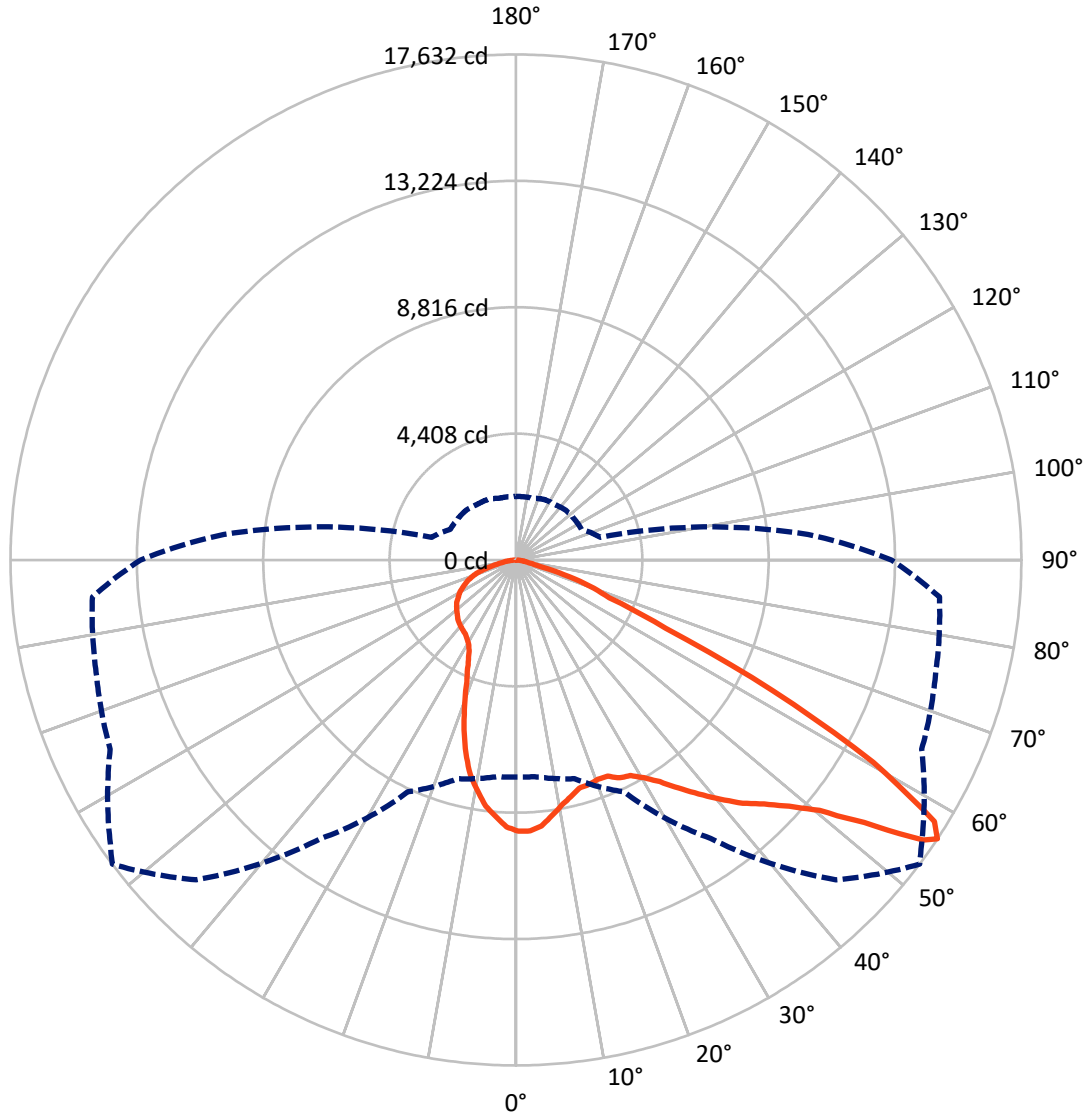
✕ Max cd
 - - - 1/2 Max cd



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	8345.8	0.0	8345.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	20253.2	0.0	20253.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	28599.0	0.0	28599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.6	2.9
10°-20°	2092.0	7.3
20°-30°	3084.9	10.8
30°-40°	4407.7	15.4
40°-50°	6066.6	21.2
50°-60°	7169.1	25.1
60°-70°	3820.6	13.4
70°-80°	969.3	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°	28599.0	100.0
0°-180°	28599.0	100.0

Coefficient of Utilization



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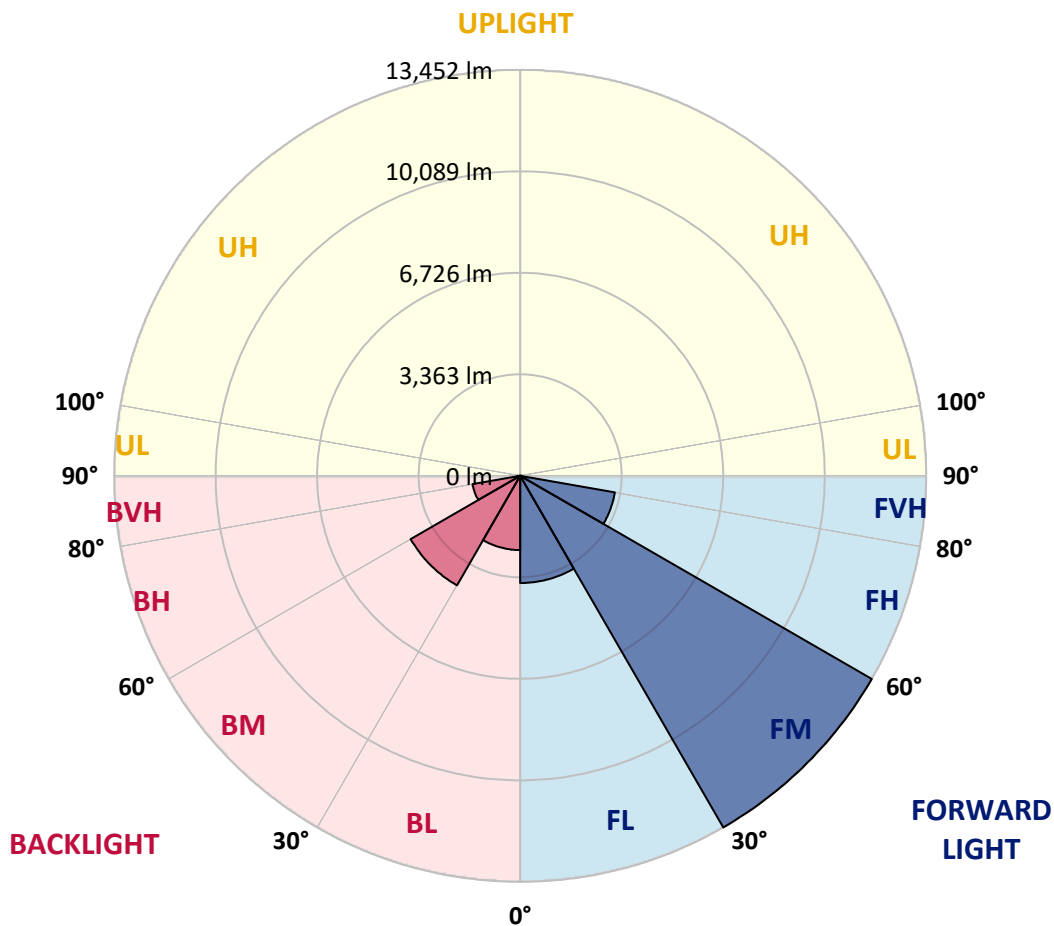
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3553.0	12.4			
FM (30°-60°)	13452.4	47.0			
FH (60°-80°)	3187.0	11.1			G2/5000
FVH (80°-90°)	60.7	0.2			G1/100
BL (0°-30°)	2461.5	8.6	B3/2500		
BM (30°-60°)	4191.0	14.7	B3/5000		
BH (60°-80°)	1602.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	90.4	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°	53°	55°	65°	75°	85°
0°	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7
2.5°	9344.3	9263.6	9311.3	9292.9	9443.3	9487.4	9465.3	9483.7	9568.1	9527.7	9443.3
5°	8731.6	8845.3	8867.3	8922.4	9010.4	9182.9	9318.6	9355.3	9395.6	9582.7	9564.4
7.5°	8173.9	8251.0	8210.6	8372.1	8562.8	8841.7	9006.8	9036.1	9406.6	9509.4	9586.4
10°	7821.8	7744.7	7928.1	7972.2	8188.6	8507.8	8705.9	8827.0	9164.5	9571.7	9619.4
12.5°	7495.2	7469.6	7579.6	7704.4	7946.5	8276.7	8478.5	8526.1	9047.1	9476.4	9700.1
15°	7253.1	7223.7	7333.8	7425.5	7708.0	8001.5	8258.3	8394.1	8918.7	9421.3	9630.4
17.5°	7062.3	7058.7	7121.0	7286.1	7575.9	7821.8	8236.3	8243.7	8852.7	9505.7	9689.1
20°	7051.3	7047.6	7058.7	7242.1	7506.2	7807.1	8166.6	8232.6	8852.7	9447.0	9692.8
22.5°	7143.0	7084.3	7150.4	7267.8	7458.5	7832.8	8192.3	8339.0	9065.5	9736.8	9857.9
25°	7289.8	7304.5	7341.1	7381.5	7491.6	7891.5	8419.8	8540.8	9314.9	9986.3	10085.4
27.5°	7557.6	7550.3	7564.9	7587.0	7682.3	7946.5	8511.5	8823.3	9835.9	10430.2	10331.2
30°	7950.2	7924.5	7983.2	8060.2	7972.2	8122.6	8816.0	9050.8	10320.2	10877.8	10606.3
32.5°	8306.0	8401.4	8511.5	8544.5	8438.1	8467.4	9219.5	9458.0	10723.7	11428.1	10943.8
35°	8749.9	8827.0	8973.7	9076.5	9058.1	8970.1	9769.9	10085.4	11307.1	11831.7	11299.7
37.5°	9182.9	9274.6	9516.7	9821.2	9652.5	9612.1	10356.8	10617.3	11486.8	12048.1	11560.2
40°	9879.9	9876.2	10294.5	10452.2	10602.7	10532.9	10965.9	11053.9	11582.2	12000.4	11567.5
42.5°	10698.0	10646.7	11072.3	11318.1	11512.5	11519.8	11600.6	11571.2	11626.2	11758.3	11490.5
45°	11475.8	11585.9	12015.1	12455.4	12649.8	12671.8	12136.2	12081.2	11703.3	11688.6	11343.7
47.5°	12426.0	12451.7	12803.9	13383.6	13834.8	13680.7	12829.6	12708.5	12040.8	12154.5	11589.5
50°	12481.0	12671.8	12987.3	13669.7	15056.5	15016.1	13728.4	13501.0	12583.8	12814.9	12275.6
52.5°	11329.1	11285.0	11659.3	12774.5	14964.8	16344.2	15217.9	14675.0	13750.4	13574.3	13387.2
55°	8632.5	8735.3	9065.5	10191.8	12994.7	16362.6	17246.7	16802.8	14997.8	14697.0	14480.5
56°	7572.3	7587.0	7898.8	8926.0	11857.4	15779.2	17632.0	17272.4	15617.8	15159.2	14829.0
57.5°	6277.2	6192.8	6354.3	6915.6	10008.3	14546.5	17210.1	17562.3	16344.2	15658.2	15199.6
60°	4941.8	4923.4	4857.4	4960.1	6324.9	10958.5	14326.4	15118.9	16270.9	15188.6	14557.6
62.5°	4035.6	3943.9	4076.0	4222.7	4395.1	6798.2	10067.0	10532.9	12917.6	12125.2	10936.5
65°	3129.4	3085.4	3250.5	3727.4	3830.2	4318.1	5734.2	6093.8	7627.3	7491.6	6596.4
67.5°	2153.5	2160.9	2304.0	3030.4	3551.3	3507.3	3511.0	3698.1	3980.6	2957.0	2575.5
70°	1364.8	1361.1	1438.1	1951.8	2857.9	2887.3	2740.5	2685.5	2546.1	1540.9	1632.6
72.5°	876.8	851.1	891.5	1078.6	1478.5	1709.6	1761.0	1794.0	1474.8	1210.7	1313.4
75°	495.3	469.6	454.9	502.6	583.3	675.0	741.1	763.1	854.8	917.2	972.2
77.5°	150.4	135.7	165.1	220.1	289.8	388.9	473.3	487.9	576.0	649.4	704.4
80°	66.0	73.4	102.7	146.7	205.4	275.2	333.9	355.9	414.6	469.6	484.3
82.5°	40.4	44.0	69.7	99.1	143.1	194.4	238.5	245.8	304.5	348.5	359.5
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°	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7	9461.7
2.5°	9487.4	9469.0	9439.7	9333.3	9322.3	9289.2	9105.8	9076.5	9105.8	9017.8	9025.1
5°	9469.0	9524.0	9303.9	9197.5	8999.4	8856.3	8691.2	8606.9	8456.4	8361.1	8467.4
7.5°	9549.7	9527.7	9252.6	9021.4	8724.3	8361.1	8071.2	7906.1	7642.0	7568.6	7623.6
10°	9520.4	9403.0	9080.1	8775.6	8214.3	7895.1	7425.5	6970.6	6721.1	6592.7	6574.4
12.5°	9480.0	9447.0	8907.7	8383.1	7792.4	7121.0	6460.6	6031.4	5624.2	5448.1	5473.8
15°	9527.7	9248.9	8584.8	7920.8	7135.7	6255.2	5543.5	4989.5	4707.0	4593.3	4593.3
17.5°	9505.7	9153.5	8430.8	7403.5	6409.3	5367.4	4585.9	4252.1	4134.7	4134.7	4167.7
20°	9516.7	9215.9	8118.9	6886.2	5550.8	4519.9	3951.2	3830.2	3881.5	3899.9	3918.2
22.5°	9579.1	9010.4	7814.4	6317.6	4754.7	3866.9	3588.0	3591.7	3683.4	3782.5	3764.1
25°	9656.1	8929.7	7443.9	5752.6	4145.7	3547.7	3459.6	3448.6	3518.3	3569.7	3577.0
27.5°	9590.1	8790.3	7066.0	5048.2	3646.7	3334.9	3316.5	3323.9	3345.9	3448.6	3415.6
30°	9806.5	8830.7	6592.7	4457.5	3371.6	3265.2	3243.2	3232.2	3265.2	3294.5	3268.8
32.5°	10074.4	8687.6	6240.5	3888.9	3235.8	3213.8	3169.8	3155.1	3173.5	3144.1	3158.8
35°	10191.8	8661.9	5781.9	3481.6	3129.4	3111.1	3085.4	3081.7	3085.4	3059.7	3037.7
37.5°	10257.8	8783.0	5257.3	3294.5	3063.4	3081.7	3023.0	3015.7	2949.7	2964.3	2975.3
40°	10371.5	8595.9	4831.7	3114.8	3023.0	2986.4	2935.0	2924.0	2880.0	2854.3	2880.0
42.5°	10206.4	8540.8	4413.5	3037.7	2964.3	2924.0	2887.3	2824.9	2810.3	2788.2	2773.6
45°	10074.4	8225.3	4039.3	2942.3	2894.6	2872.6	2802.9	2736.9	2681.8	2703.9	2670.8
47.5°	10173.4	8115.2	3668.7	2861.6	2799.2	2773.6	2703.9	2652.5	2597.5	2571.8	2564.4
50°	10569.6	8320.7	3356.9	2802.9	2718.5	2703.9	2612.1	2553.4	2502.1	2483.7	2491.1
52.5°	11516.2	8882.0	3144.1	2681.8	2641.5	2575.5	2524.1	2450.7	2417.7	2359.0	2395.7
55°	12715.8	9795.5	3089.1	2568.1	2546.1	2487.4	2417.7	2362.7	2300.3	2252.6	2241.6
56°	13101.1	10232.1	3045.1	2524.1	2487.4	2454.4	2362.7	2329.6	2230.6	2219.6	2212.2
57.5°	13412.9	10617.3	3052.4	2439.7	2403.0	2373.7	2318.6	2237.9	2171.9	2131.5	2149.9
60°	12708.5	9938.6	2913.0	2311.3	2304.0	2248.9	2171.9	2135.2	2054.5	2006.8	1995.8
62.5°	9447.0	6746.8	2362.7	2146.2	2142.5	2083.8	1995.8	1955.4	1940.8	1874.7	1874.7
65°	5440.7	4230.1	2043.5	2010.5	1981.1	1922.4	1834.4	1801.4	1764.7	1742.7	1724.3
67.5°	2322.3	2193.9	1856.4	1852.7	1819.7	1746.3	1658.3	1606.9	1559.2	1515.2	1537.2
70°	1684.0	1709.6	1676.6	1658.3	1617.9	1526.2	1449.2	1386.8	1313.4	1284.1	1306.1
72.5°	1335.4	1390.5	1438.1	1441.8	1394.1	1287.7	1203.3	1119.0	1038.3	997.9	1016.2
75°	1012.6	1049.3	1097.0	1108.0	1038.3	964.9	884.2	796.1	733.7	686.1	693.4
77.5°	730.1	722.7	766.8	759.4	726.4	675.0	601.7	521.0	451.3	407.2	410.9
80°	498.9	510.0	535.6	532.0	491.6	458.6	403.6	337.5	286.2	249.5	242.1
82.5°	348.5	366.9	388.9	370.5	337.5	304.5	264.1	216.5	176.1	146.7	139.4
85°	124.7	143.1	165.1	176.1	187.1	179.8	150.4	121.1	88.0	73.4	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)