

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: P532848

Luminaire Tested: **GALN-SA8B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33545 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

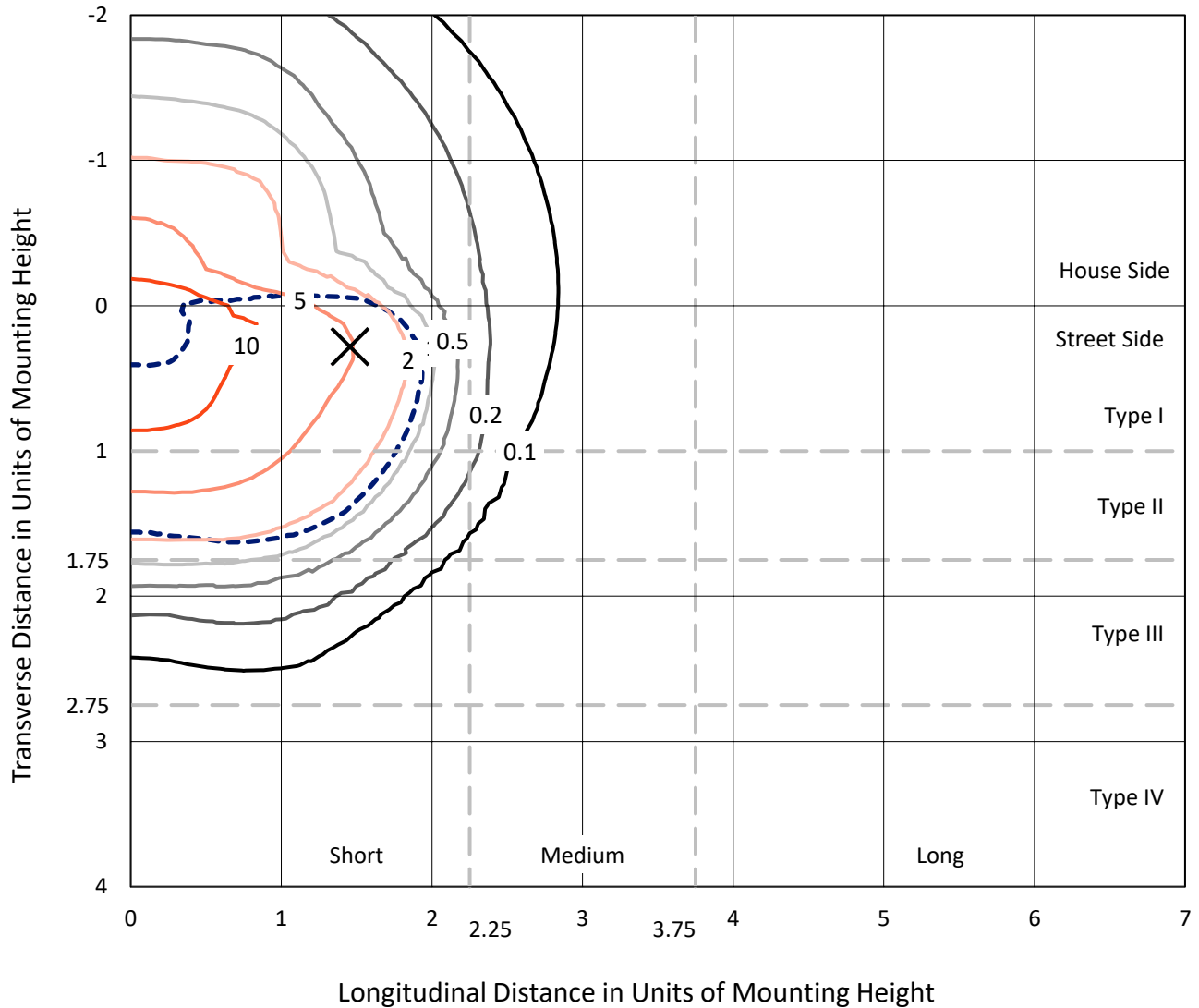
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

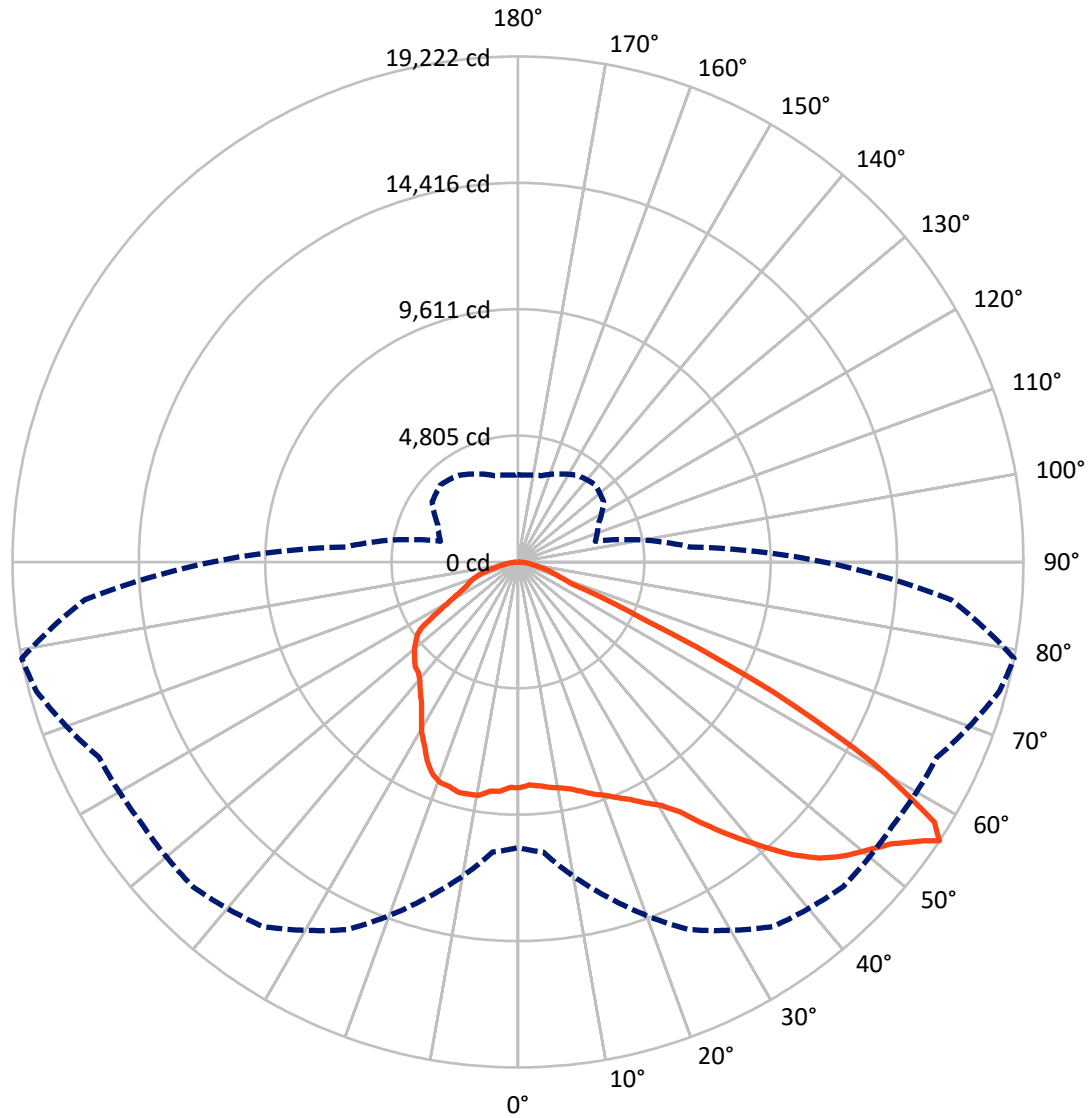
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9906.6	0.0	9906.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23638.4	0.0	23638.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	33545.0	0.0	33545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.3	2.3
10°-20°	2135.6	6.4
20°-30°	3653.6	10.9
30°-40°	5599.6	16.7
40°-50°	7567.8	22.6
50°-60°	8691.8	25.9
60°-70°	3962.0	11.8
70°-80°	976.8	2.9
80°-90°	177.5	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°	33545.0	100.0
0°-180°	33545.0	100.0

Coefficient of Utilization



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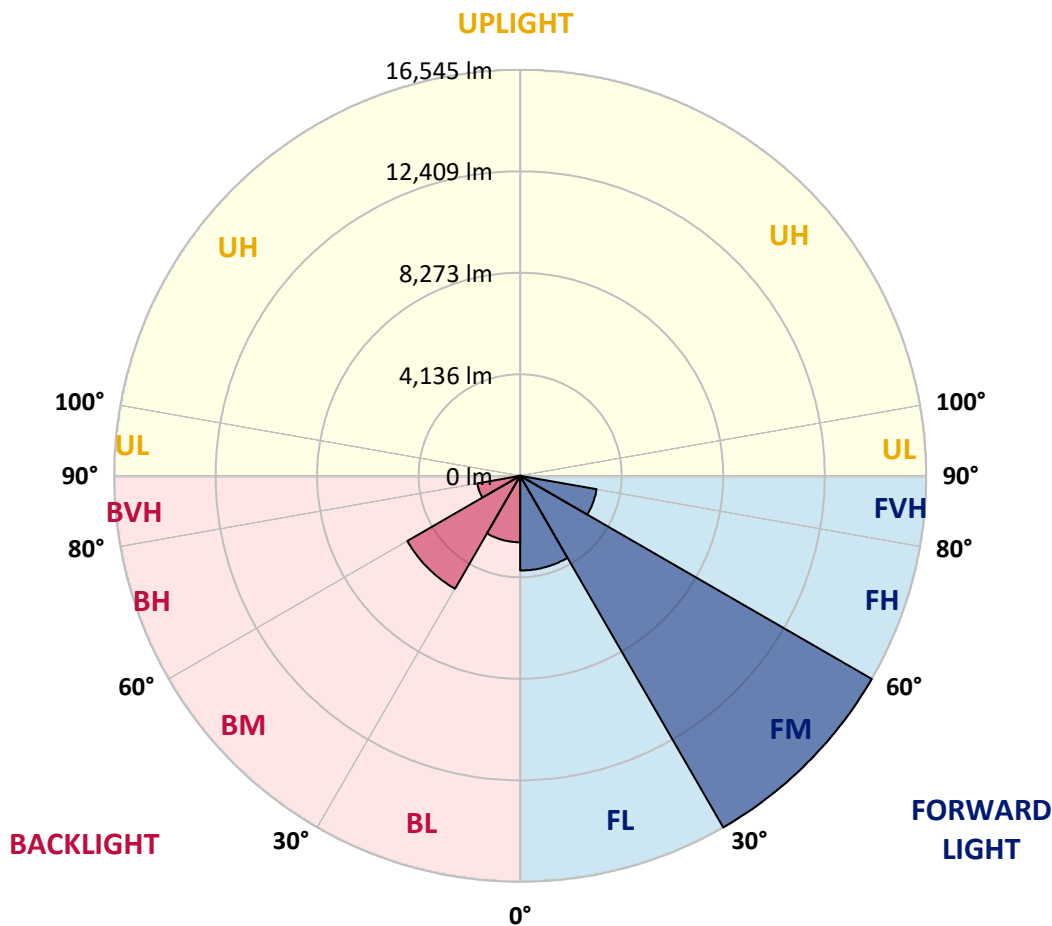
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3859.6	11.5			
FM (30°-60°)	16545.4	49.3			
FH (60°-80°)	3162.5	9.4			G2/5000
FVH (80°-90°)	70.9	0.2			G1/100
BL (0°-30°)	2709.9	8.1	B4/5000		
BM (30°-60°)	5313.7	15.8	B4/8500		
BH (60°-80°)	1776.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	106.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8
2.5°	8165.0	8144.1	8194.2	8231.8	8277.8	8336.3	8365.6	8382.3	8528.5	8490.9	8603.7
5°	7989.5	7935.2	7972.8	8002.0	8081.4	8152.4	8231.8	8357.2	8490.9	8549.4	8687.3
7.5°	7834.9	7805.6	7797.3	7818.2	7926.8	8018.7	8156.6	8340.5	8557.8	8653.9	8733.3
10°	7580.0	7538.2	7600.9	7738.8	7768.0	7960.2	8119.0	8382.3	8570.3	8737.4	8971.4
12.5°	7467.2	7425.4	7437.9	7517.3	7722.0	7905.9	8093.9	8390.6	8787.6	8854.4	9167.8
15°	7646.8	7605.0	7617.6	7596.7	7793.1	7889.2	8185.9	8557.8	8938.0	9050.8	9385.1
17.5°	8056.3	8060.5	8006.2	7960.2	7914.3	8119.0	8323.8	8658.1	8996.5	9280.7	9531.4
20°	8837.7	8699.8	8591.2	8332.1	8261.1	8348.8	8607.9	8929.7	9234.7	9468.7	9752.8
22.5°	9439.4	9452.0	9297.4	8871.2	8716.6	8754.2	8975.6	9238.9	9573.2	9740.3	10066.2
25°	10312.8	10225.0	10057.9	9719.4	9372.6	9401.8	9564.8	9803.0	9894.9	10011.9	10367.1
27.5°	11110.9	11136.0	10805.9	10488.3	10057.9	9974.3	10266.8	10308.6	10154.0	10375.5	10496.6
30°	11921.5	11900.6	11683.4	11311.5	10889.4	10906.1	11035.7	10830.9	10617.8	10739.0	10822.6
32.5°	12761.4	12523.3	12514.9	12180.6	11858.9	11704.2	11545.5	11645.7	11315.6	11340.7	11261.3
35°	13434.2	13467.6	13275.4	13037.2	12878.4	12606.8	12172.3	12351.9	12289.3	12260.0	11917.4
37.5°	13923.1	13793.5	13889.7	13810.3	13659.8	13321.4	12870.1	13041.4	13070.6	13212.7	12815.8
40°	14324.2	14269.9	14524.8	14566.6	14462.1	13730.9	12920.2	13430.0	13868.8	14178.0	13705.8
42.5°	14516.4	14633.4	14900.9	15222.6	14988.6	14207.2	13179.3	13726.7	14704.5	15193.4	14549.9
45°	14775.5	14625.1	15022.1	15611.2	15615.4	14608.4	13430.0	14127.8	15356.3	16066.7	15126.5
47.5°	14512.3	14587.5	14997.0	15745.0	15937.2	15030.4	14106.9	14696.1	16075.1	16706.0	15661.4
50°	13923.1	14073.5	14821.5	15598.7	16179.5	15477.5	14884.2	15310.4	16739.5	17220.0	15749.1
52.5°	13308.8	13392.4	14562.4	15711.5	16288.2	16054.2	15924.6	16158.6	17550.1	17800.8	15857.8
55°	11637.4	12034.4	13705.8	15661.4	16818.9	17094.6	16994.4	17337.0	18469.4	18720.1	16451.1
56°	10864.4	11073.3	13191.8	15427.4	16923.3	17474.9	17424.7	17579.4	18958.3	19221.5	16543.1
57.5°	9435.3	9452.0	11248.8	14391.1	16530.5	17587.7	17537.6	17658.7	18862.2	18682.5	15736.6
60°	5904.4	6163.4	7655.2	11069.1	14056.8	16317.4	16601.6	15628.0	15903.7	15523.5	12243.3
62.5°	3058.7	3021.1	4011.5	6472.6	9330.8	11683.4	11946.6	11900.6	11474.4	10918.7	7997.8
65°	1525.2	1533.5	2097.7	3205.0	4780.3	6117.5	6852.9	6932.3	5799.9	5336.1	3794.2
67.5°	1107.3	1149.1	1508.5	1959.8	2252.3	2519.7	3088.0	3029.5	2294.0	2181.2	2022.4
70°	860.8	898.4	1224.3	1495.9	1358.0	1358.0	1479.2	1529.4	1633.8	1679.8	1734.1
72.5°	626.8	656.0	936.0	1032.1	890.0	956.9	1107.3	1224.3	1333.0	1349.7	1412.4
75°	430.4	455.5	614.3	568.3	534.9	660.2	810.6	919.3	998.7	1040.5	1078.1
77.5°	280.0	288.3	351.0	296.7	342.6	426.2	526.5	618.4	697.8	731.3	739.6
80°	125.4	137.9	150.4	188.0	238.2	305.0	376.1	451.3	501.4	514.0	539.0
82.5°	71.0	71.0	91.9	133.7	175.5	221.5	271.6	325.9	384.4	397.0	392.8
85°	37.6	37.6	54.3	79.4	108.6	129.5	125.4	129.5	137.9	158.8	154.6
87.5°	12.5	12.5	16.7	16.7	20.9	25.1	20.9	29.3	37.6	37.6	37.6
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°	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8	8582.8
2.5°	8570.3	8607.9	8557.8	8666.4	8666.4	8645.5	8541.1	8574.5	8599.6	8599.6	8620.4
5°	8733.3	8720.7	8754.2	8624.6	8545.2	8516.0	8344.7	8261.1	8190.0	8185.9	8123.2
7.5°	8825.2	8791.8	8779.2	8683.1	8332.1	8119.0	7751.3	7538.2	7492.2	7329.3	7391.9
10°	8971.4	9034.1	8971.4	8449.1	7960.2	7471.3	7112.0	6781.9	6652.3	6547.9	6485.2
12.5°	9272.3	9243.1	8879.5	8173.3	7488.0	6907.2	6372.4	6025.5	5896.0	5804.1	5795.7
15°	9527.2	9380.9	8825.2	7738.8	6752.6	6134.2	5695.4	5448.9	5390.4	5398.7	5436.4
17.5°	9615.0	9514.7	8541.1	7287.5	6205.2	5478.1	5273.4	5235.8	5290.1	5352.8	5369.5
20°	9752.8	9594.1	8424.1	6673.2	5528.3	5068.6	5056.1	5189.8	5290.1	5382.0	5394.6
22.5°	10041.2	9640.0	8043.8	6092.4	5064.5	4947.5	5068.6	5181.5	5336.1	5411.3	5344.4
25°	10124.7	9539.7	7508.9	5394.6	4772.0	4872.2	5001.8	5156.4	5265.0	5306.8	5336.1
27.5°	10195.8	9385.1	6786.0	4930.7	4680.0	4868.1	5001.8	5131.3	5189.8	5227.4	5260.9
30°	10396.3	9339.2	6159.3	4621.5	4621.5	4784.5	4955.8	4989.2	5068.6	5114.6	5173.1
32.5°	10496.6	9021.6	5515.7	4425.1	4563.0	4826.3	4838.8	4901.5	4905.7	4943.3	4880.6
35°	10759.9	8795.9	4918.2	4283.1	4588.1	4784.5	4847.2	4809.6	4604.8	4504.5	4525.4
37.5°	10952.1	8683.1	4487.8	4266.3	4592.3	4830.5	4863.9	4579.7	4366.6	4199.5	4241.3
40°	11470.2	8403.2	4161.9	4237.1	4629.9	4880.6	4788.7	4479.5	4095.0	3923.7	3894.5
42.5°	11867.2	8202.6	3957.1	4203.7	4659.1	4951.6	4751.1	4278.9	3886.1	3727.3	3769.1
45°	12326.9	8156.6	3848.5	4212.0	4709.3	4989.2	4705.1	4124.3	3706.4	3643.7	3631.2
47.5°	12489.8	7826.5	3731.5	4141.0	4696.7	4976.7	4550.5	4007.3	3639.6	3647.9	3681.3
50°	12218.2	7488.0	3643.7	3994.7	4613.2	4863.9	4308.1	3852.7	3602.0	3706.4	3764.9
52.5°	11871.4	7141.2	3464.1	3798.3	4441.8	4688.4	4195.3	3844.3	3564.3	3530.9	3543.4
55°	11975.9	6857.1	3213.3	3530.9	4166.1	4362.5	4070.0	3764.9	3472.4	3347.1	3388.8
56°	11637.4	6564.6	3050.4	3363.8	3978.0	4153.5	4007.3	3693.9	3397.2	3313.6	3313.6
57.5°	10680.5	5582.6	2837.3	3096.3	3581.1	3790.0	3886.1	3652.1	3313.6	3167.4	3171.6
60°	7876.7	3969.7	2544.8	2728.6	2966.8	3133.9	3581.1	3535.1	3104.7	3004.4	2966.8
62.5°	4855.5	2899.9	2335.8	2406.9	2528.1	2665.9	3125.6	3200.8	2883.2	2774.6	2749.5
65°	2720.3	2218.8	2177.0	2206.3	2264.8	2335.8	2594.9	2762.1	2544.8	2377.6	2369.3
67.5°	1989.0	1984.8	2018.3	2043.3	2068.4	2068.4	2131.1	2197.9	2168.7	2035.0	2022.4
70°	1767.5	1780.1	1805.2	1809.3	1817.7	1788.4	1738.3	1717.4	1750.8	1667.3	1650.5
72.5°	1458.3	1500.1	1529.4	1533.5	1487.6	1450.0	1383.1	1312.1	1287.0	1270.3	1266.1
75°	1119.9	1149.1	1161.6	1157.5	1140.8	1086.4	1007.0	936.0	890.0	839.9	865.0
77.5°	756.3	798.1	819.0	819.0	793.9	710.4	672.8	618.4	572.5	518.1	526.5
80°	530.7	559.9	593.4	589.2	547.4	505.6	451.3	401.1	363.5	321.8	317.6
82.5°	397.0	413.7	430.4	422.0	392.8	351.0	313.4	267.4	225.6	196.4	196.4
85°	142.1	154.6	188.0	196.4	213.1	213.1	179.7	150.4	121.2	100.3	100.3
87.5°	41.8	41.8	46.0	46.0	41.8	46.0	37.6	41.8	46.0	29.3	29.3
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)