

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: P651975

Luminaire Tested: **GALN-SA6A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651975
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-SA6A-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA 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: 19909 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

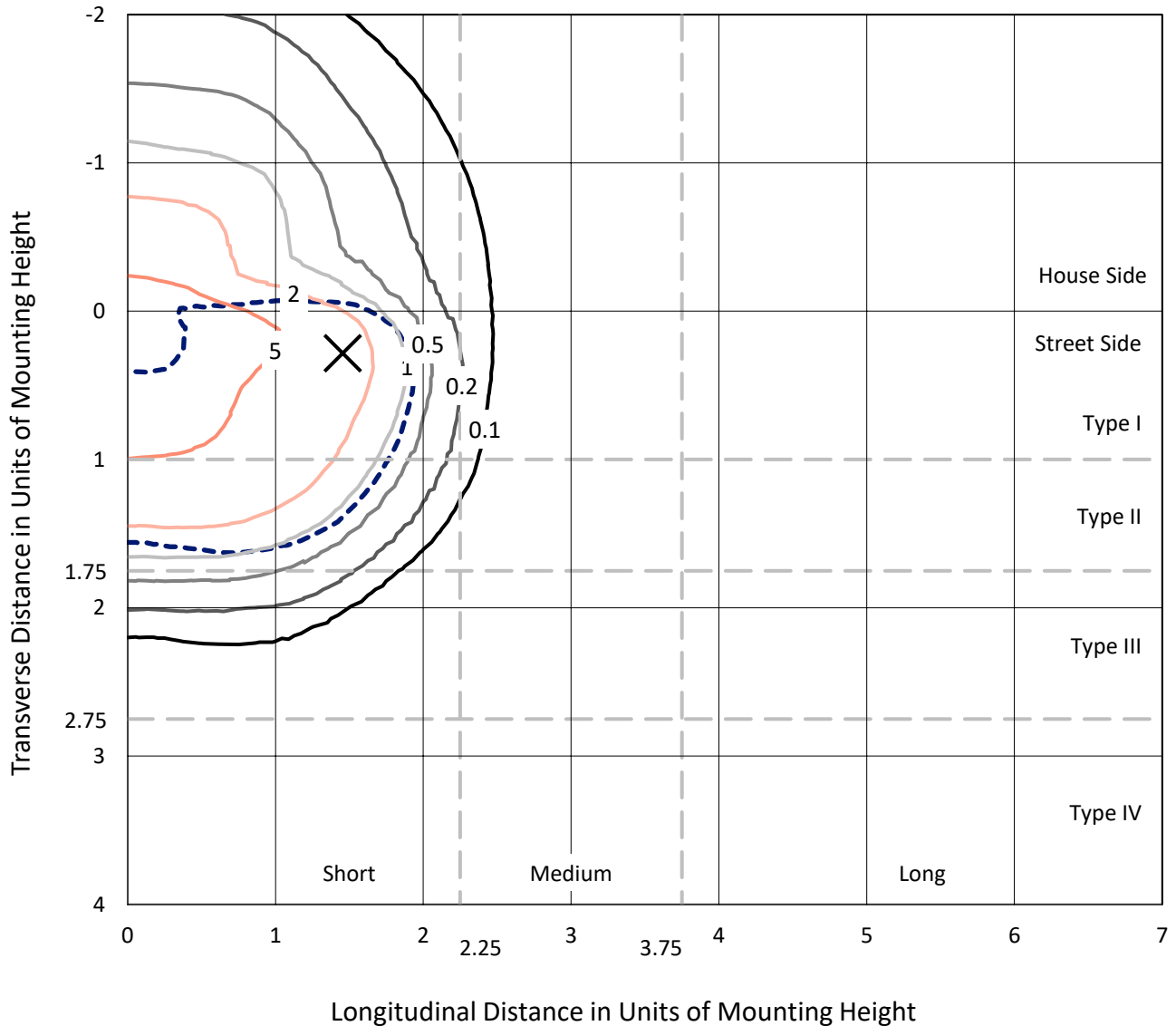
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

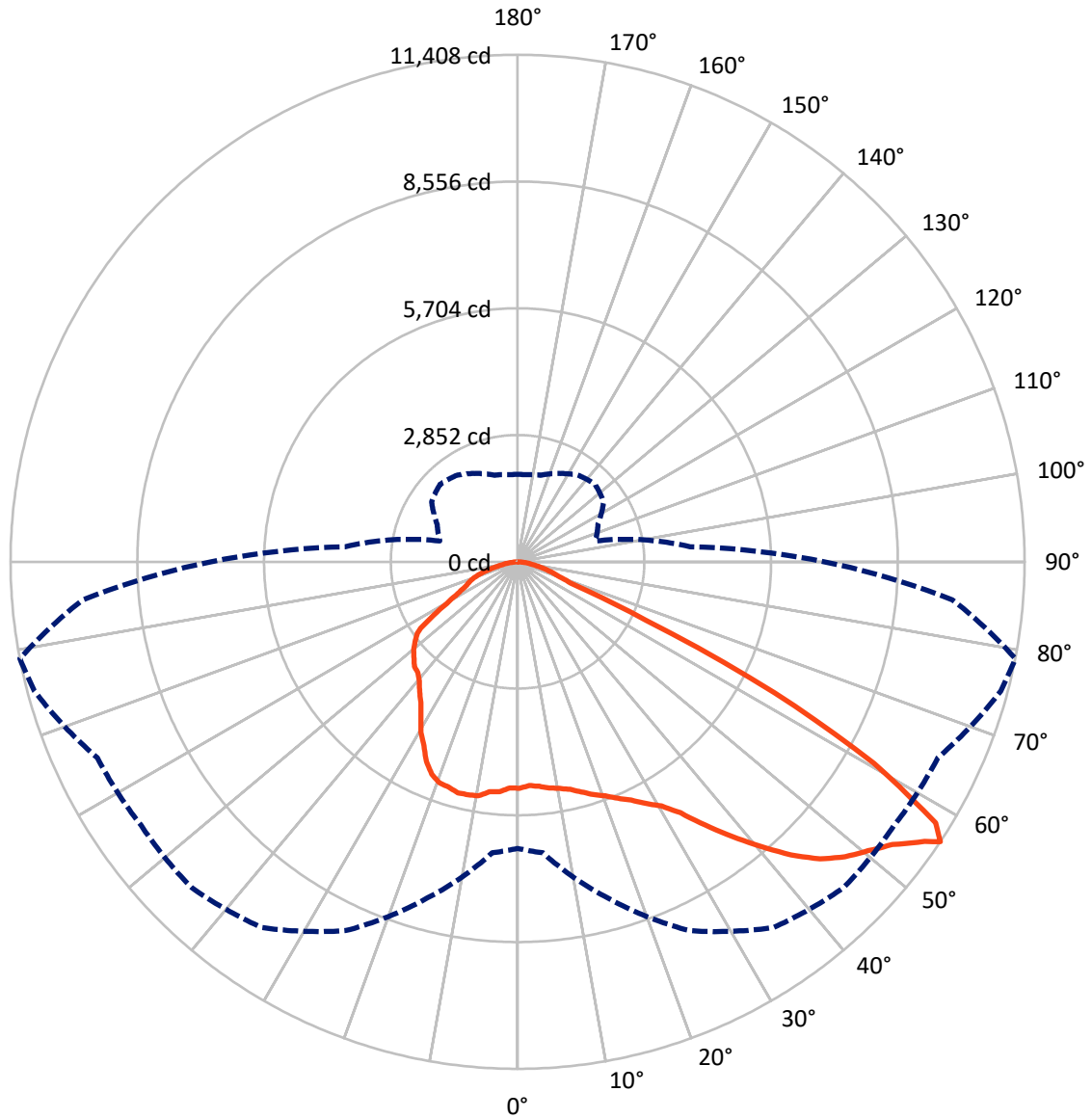
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	5879.6	0.0	5879.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	14029.4	0.0	14029.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	19909.0	0.0	19909.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.1	2.3
10°-20°	1267.5	6.4
20°-30°	2168.4	10.9
30°-40°	3323.3	16.7
40°-50°	4491.5	22.6
50°-60°	5158.6	25.9
60°-70°	2351.4	11.8
70°-80°	579.8	2.9
80°-90°	105.4	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°	19909.0	100.0
0°-180°	19909.0	100.0

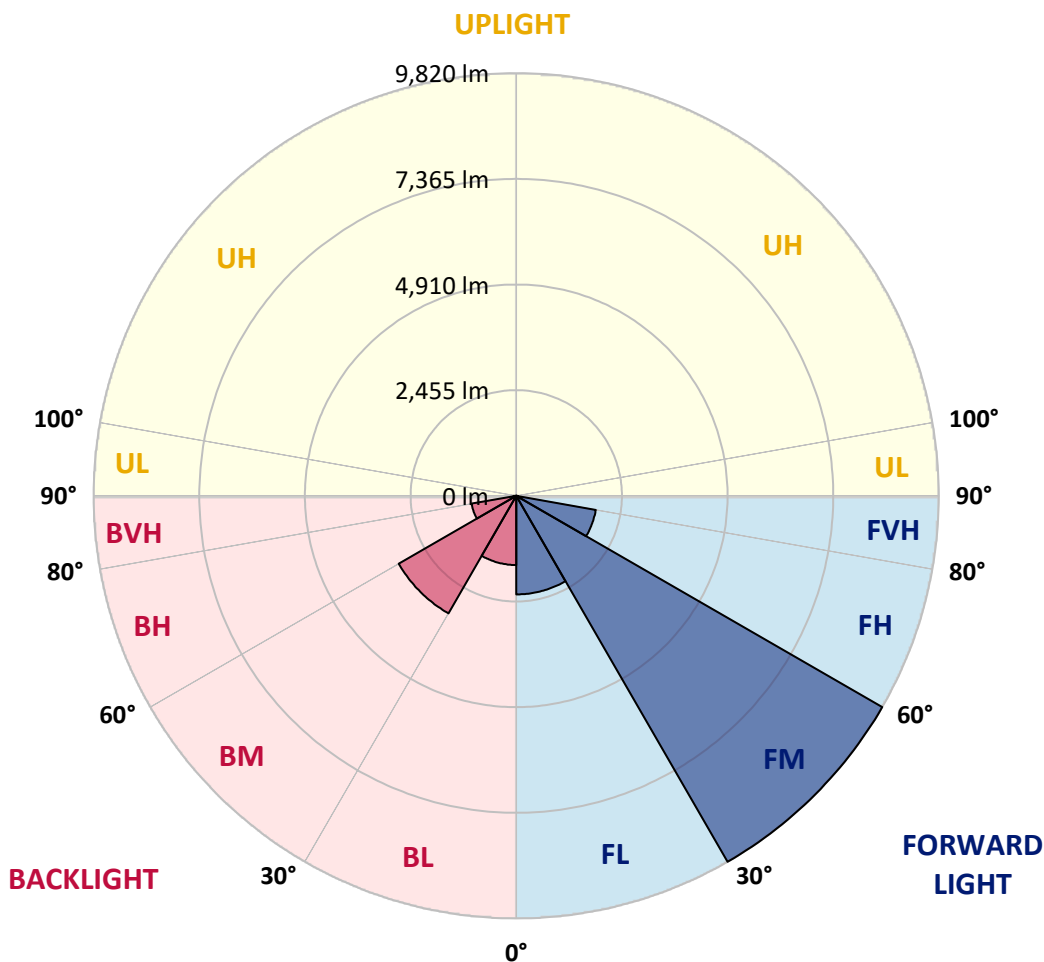


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2290.7	11.5			
FM (30°-60°)	9819.7	49.3			
FH (60°-80°)	1877.0	9.4			G2/5000
FVH (80°-90°)	42.1	0.2			G1/100
BL (0°-30°)	1608.3	8.1	B3/2500		
BM (30°-60°)	3153.7	15.8	B3/5000		
BH (60°-80°)	1054.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	63.3	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°	55°	65°	75°	79°	85°
0°	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9
2.5°	4845.9	4833.6	4863.3	4885.6	4912.9	4947.6	4964.9	4974.9	5061.6	5039.4	5106.3
5°	4741.7	4709.5	4731.8	4749.2	4796.3	4838.4	4885.6	4960.0	5039.4	5074.1	5155.9
7.5°	4650.0	4632.6	4627.7	4640.0	4704.6	4759.1	4841.0	4950.0	5079.1	5136.1	5183.2
10°	4498.8	4474.0	4511.1	4593.0	4610.4	4724.4	4818.7	4974.9	5086.5	5185.7	5324.5
12.5°	4431.7	4406.9	4414.4	4461.5	4583.0	4692.2	4803.8	4979.8	5215.5	5255.2	5441.1
15°	4538.4	4513.6	4521.0	4508.6	4625.2	4682.3	4858.3	5079.1	5304.7	5371.7	5570.1
17.5°	4781.4	4783.9	4751.6	4724.4	4697.2	4818.7	4940.2	5138.6	5339.4	5508.0	5656.9
20°	5245.2	5163.4	5098.9	4945.2	4902.9	4955.0	5108.8	5299.7	5480.8	5619.6	5788.4
22.5°	5602.3	5609.7	5518.0	5265.1	5173.2	5195.6	5327.1	5483.3	5681.7	5780.9	5974.3
25°	6120.6	6068.6	5969.3	5768.5	5562.6	5580.0	5676.8	5818.1	5872.6	5942.1	6152.9
27.5°	6594.4	6609.2	6413.3	6224.8	5969.3	5919.8	6093.4	6118.2	6026.4	6157.8	6229.8
30°	7075.4	7063.1	6934.0	6713.4	6462.9	6472.8	6549.7	6428.2	6301.7	6373.6	6423.2
32.5°	7574.0	7432.6	7427.6	7229.2	7038.2	6946.5	6852.2	6911.8	6715.8	6730.7	6683.6
35°	7973.2	7993.0	7879.0	7737.6	7643.3	7482.1	7224.3	7330.9	7293.7	7276.3	7073.0
37.5°	8263.3	8186.5	8243.6	8196.4	8107.2	7906.2	7638.4	7740.1	7757.5	7841.7	7606.2
40°	8501.4	8469.2	8620.5	8645.3	8583.2	8149.3	7668.2	7970.7	8231.1	8414.6	8134.4
42.5°	8615.5	8685.0	8843.7	9034.6	8895.8	8432.0	7821.9	8146.8	8727.1	9017.3	8635.4
45°	8769.3	8680.0	8915.6	9265.3	9267.7	8670.1	7970.7	8384.9	9114.0	9535.6	8977.6
47.5°	8613.0	8657.7	8900.7	9344.7	9458.7	8920.6	8372.5	8722.2	9540.6	9915.1	9295.1
50°	8263.3	8352.6	8796.5	9257.8	9602.5	9185.9	8833.8	9086.8	9934.9	10220.1	9347.1
52.5°	7898.8	7948.4	8642.8	9324.8	9667.0	9528.2	9451.3	9590.2	10416.0	10564.8	9411.6
55°	6906.8	7142.4	8134.4	9295.1	9982.0	10145.7	10086.2	10289.6	10961.6	11110.4	9763.8
56°	6448.0	6572.0	7829.4	9156.1	10044.0	10371.4	10341.6	10433.4	11251.7	11408.0	9818.3
57.5°	5599.9	5609.7	6676.2	8541.1	9810.9	10438.3	10408.6	10480.5	11194.7	11088.1	9339.7
60°	3504.3	3658.0	4543.3	6569.6	8342.7	9684.4	9853.1	9275.2	9438.9	9213.2	7266.4
62.5°	1815.4	1793.0	2380.8	3841.5	5537.8	6934.0	7090.3	7063.1	6810.1	6480.2	4746.7
65°	905.2	910.1	1244.9	1902.2	2837.1	3630.7	4067.2	4114.3	3442.2	3167.0	2251.9
67.5°	657.2	682.0	895.2	1163.1	1336.7	1495.5	1832.7	1798.0	1361.5	1294.6	1200.4
70°	510.9	533.2	726.6	887.8	806.0	806.0	877.9	907.7	969.7	996.9	1029.2
72.5°	372.0	389.4	555.5	612.6	528.2	567.9	657.2	726.6	791.1	801.1	838.2
75°	255.4	270.3	364.6	337.2	317.5	391.8	481.1	545.6	592.7	617.5	639.8
77.5°	166.2	171.1	208.3	176.1	203.4	253.0	312.5	367.0	414.2	434.0	439.0
80°	74.4	81.8	89.3	111.6	141.4	181.1	223.2	267.9	297.6	305.0	319.9
82.5°	42.1	42.1	54.6	79.4	104.2	131.4	161.2	193.4	228.2	235.6	233.1
85°	22.3	22.3	32.2	47.1	64.5	76.9	74.4	76.9	81.8	94.3	91.8
87.5°	7.4	7.4	9.9	9.9	12.4	14.9	12.4	17.3	22.3	22.3	22.3
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°	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9	5093.9
2.5°	5086.5	5108.8	5079.1	5143.6	5143.6	5131.1	5069.1	5089.0	5103.9	5103.9	5116.2
5°	5183.2	5175.8	5195.6	5118.7	5071.6	5054.2	4952.6	4902.9	4860.8	4858.3	4821.1
7.5°	5237.7	5217.9	5210.5	5153.5	4945.2	4818.7	4600.4	4474.0	4446.6	4349.9	4387.2
10°	5324.5	5361.8	5324.5	5014.5	4724.4	4434.3	4221.0	4025.0	3948.2	3886.2	3848.9
12.5°	5503.1	5485.8	5270.0	4850.9	4444.2	4099.5	3782.0	3576.2	3499.3	3444.7	3439.8
15°	5654.4	5567.6	5237.7	4593.0	4007.7	3640.6	3380.2	3233.9	3199.2	3204.1	3226.5
17.5°	5706.5	5647.0	5069.1	4325.1	3682.8	3251.3	3129.8	3107.4	3139.7	3176.9	3186.8
20°	5788.4	5694.1	4999.7	3960.5	3281.1	3008.3	3000.8	3080.2	3139.7	3194.2	3201.7
22.5°	5959.4	5721.3	4774.0	3615.9	3005.7	2936.4	3008.3	3075.2	3167.0	3211.6	3171.9
25°	6009.0	5661.9	4456.5	3201.7	2832.2	2891.7	2968.6	3060.3	3124.8	3149.6	3167.0
27.5°	6051.2	5570.1	4027.5	2926.4	2777.6	2889.2	2968.6	3045.4	3080.2	3102.4	3122.3
30°	6170.2	5542.8	3655.5	2742.9	2742.9	2839.6	2941.3	2961.2	3008.3	3035.5	3070.2
32.5°	6229.8	5354.3	3273.6	2626.4	2708.2	2864.4	2871.8	2909.0	2911.5	2933.8	2896.7
35°	6386.0	5220.4	2918.9	2542.0	2723.1	2839.6	2876.8	2854.5	2733.0	2673.5	2685.8
37.5°	6500.1	5153.5	2663.5	2532.1	2725.5	2866.9	2886.7	2718.1	2591.6	2492.4	2517.2
40°	6807.6	4987.3	2470.1	2514.8	2747.9	2896.7	2842.1	2658.6	2430.4	2328.7	2311.3
42.5°	7043.2	4868.2	2348.6	2494.9	2765.2	2938.8	2819.8	2539.5	2306.4	2212.2	2237.0
45°	7316.0	4841.0	2284.1	2499.9	2795.0	2961.2	2792.5	2447.7	2199.7	2162.5	2155.1
47.5°	7412.7	4645.0	2214.6	2457.7	2787.5	2953.7	2700.7	2378.3	2160.1	2165.1	2184.9
50°	7251.5	4444.2	2162.5	2370.9	2738.0	2886.7	2556.9	2286.6	2137.7	2199.7	2234.5
52.5°	7045.6	4238.3	2055.9	2254.3	2636.3	2782.5	2489.9	2281.6	2115.5	2095.6	2103.0
55°	7107.7	4069.7	1907.1	2095.6	2472.5	2589.1	2415.5	2234.5	2060.9	1986.4	2011.3
56°	6906.8	3896.1	1810.4	1996.4	2360.9	2465.1	2378.3	2192.3	2016.2	1966.7	1966.7
57.5°	6338.9	3313.3	1683.9	1837.7	2125.4	2249.3	2306.4	2167.5	1966.7	1879.8	1882.3
60°	4674.8	2356.0	1510.4	1619.4	1760.8	1860.0	2125.4	2098.0	1842.6	1783.1	1760.8
62.5°	2881.8	1721.1	1386.3	1428.5	1500.4	1582.3	1855.1	1899.7	1711.2	1646.8	1631.9
65°	1614.5	1316.9	1292.1	1309.4	1344.2	1386.3	1540.0	1639.3	1510.4	1411.1	1406.2
67.5°	1180.5	1178.0	1197.8	1212.7	1227.6	1227.6	1264.8	1304.5	1287.2	1207.8	1200.4
70°	1049.1	1056.5	1071.3	1073.9	1078.8	1061.4	1031.7	1019.3	1039.1	989.5	979.6
72.5°	865.6	890.3	907.7	910.1	882.9	860.6	820.9	778.7	763.9	754.0	751.4
75°	664.6	682.0	689.5	686.9	677.0	644.8	597.7	555.5	528.2	498.5	513.3
77.5°	448.8	473.7	486.1	486.1	471.2	421.6	399.3	367.0	339.8	307.6	312.5
80°	315.0	332.3	352.1	349.7	324.9	300.1	267.9	238.1	215.8	191.0	188.5
82.5°	235.6	245.5	255.4	250.4	233.1	208.3	186.0	158.7	133.9	116.6	116.6
85°	84.4	91.8	111.6	116.6	126.5	126.5	106.6	89.3	71.9	59.5	59.5
87.5°	24.8	24.8	27.2	27.2	24.8	27.2	22.3	24.8	27.2	17.3	17.3
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)