

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: P648015

Luminaire Tested: **GALN-SA6A-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648015
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-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 18536 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

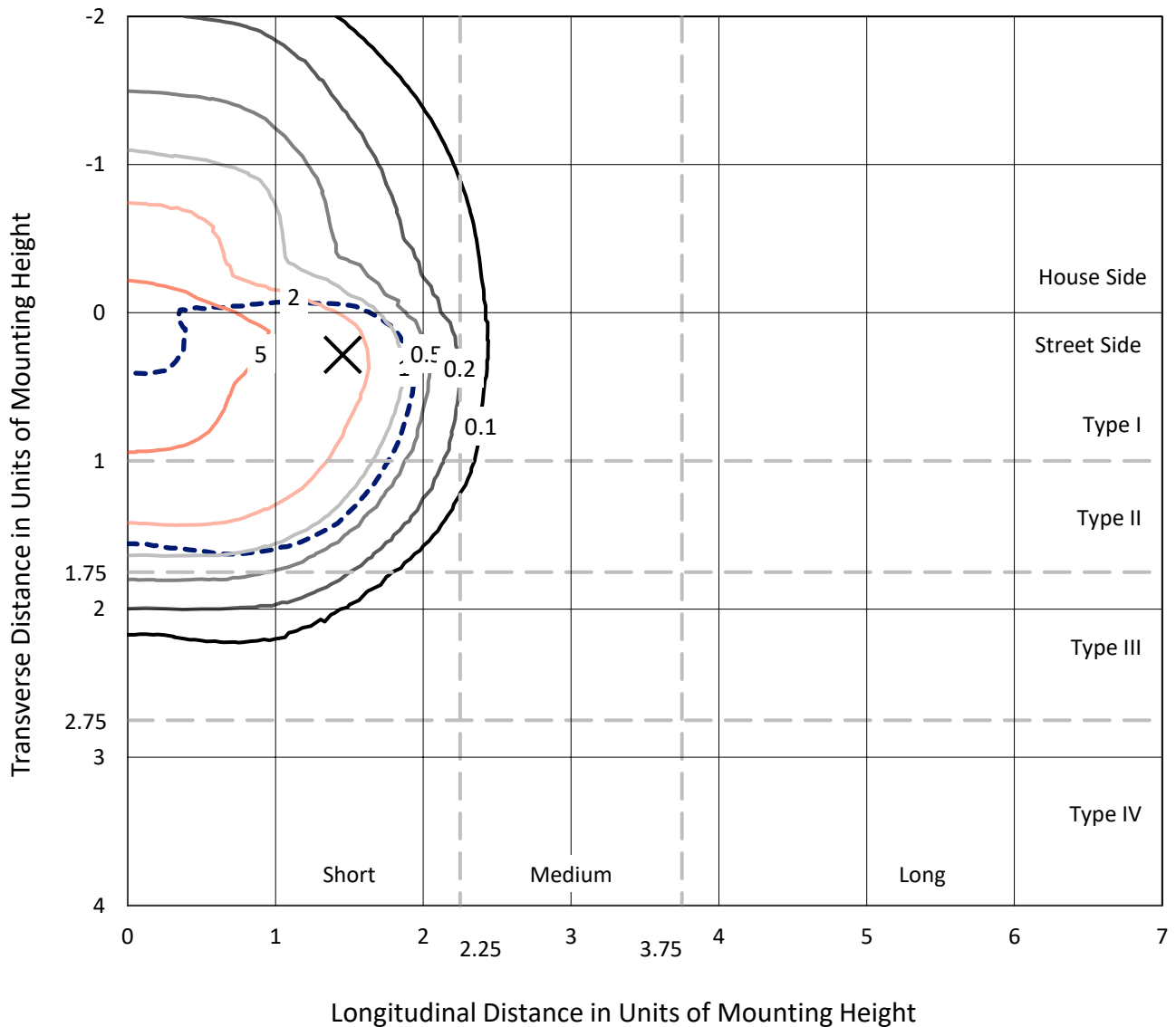
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

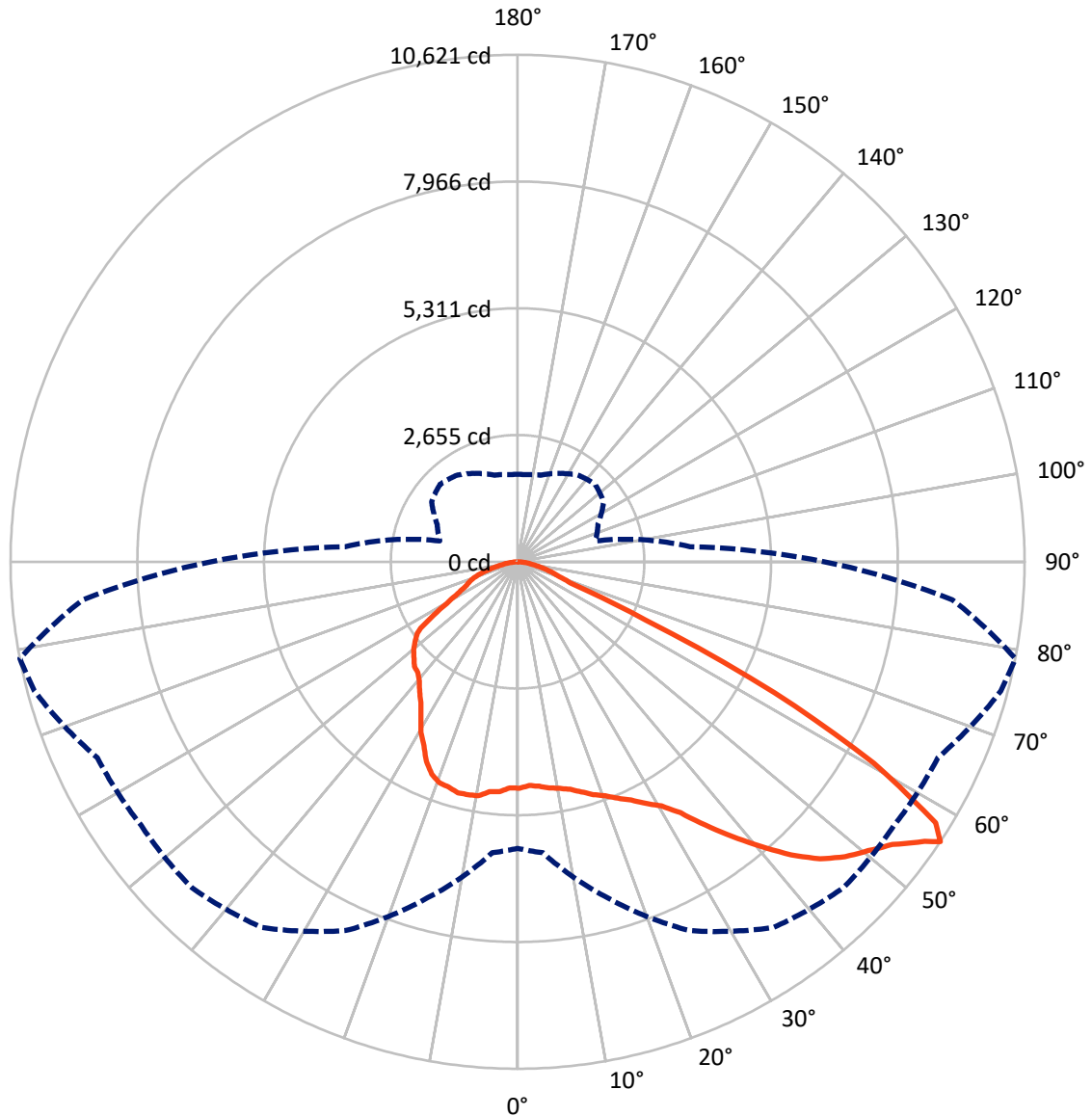
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	5474.1	0.0	5474.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	13061.9	0.0	13061.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	18536.0	0.0	18536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.2	2.3
10°-20°	1180.1	6.4
20°-30°	2018.9	10.9
30°-40°	3094.1	16.7
40°-50°	4181.7	22.6
50°-60°	4802.8	25.9
60°-70°	2189.3	11.8
70°-80°	539.8	2.9
80°-90°	98.1	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°	18536.0	100.0
0°-180°	18536.0	100.0

Coefficient of Utilization



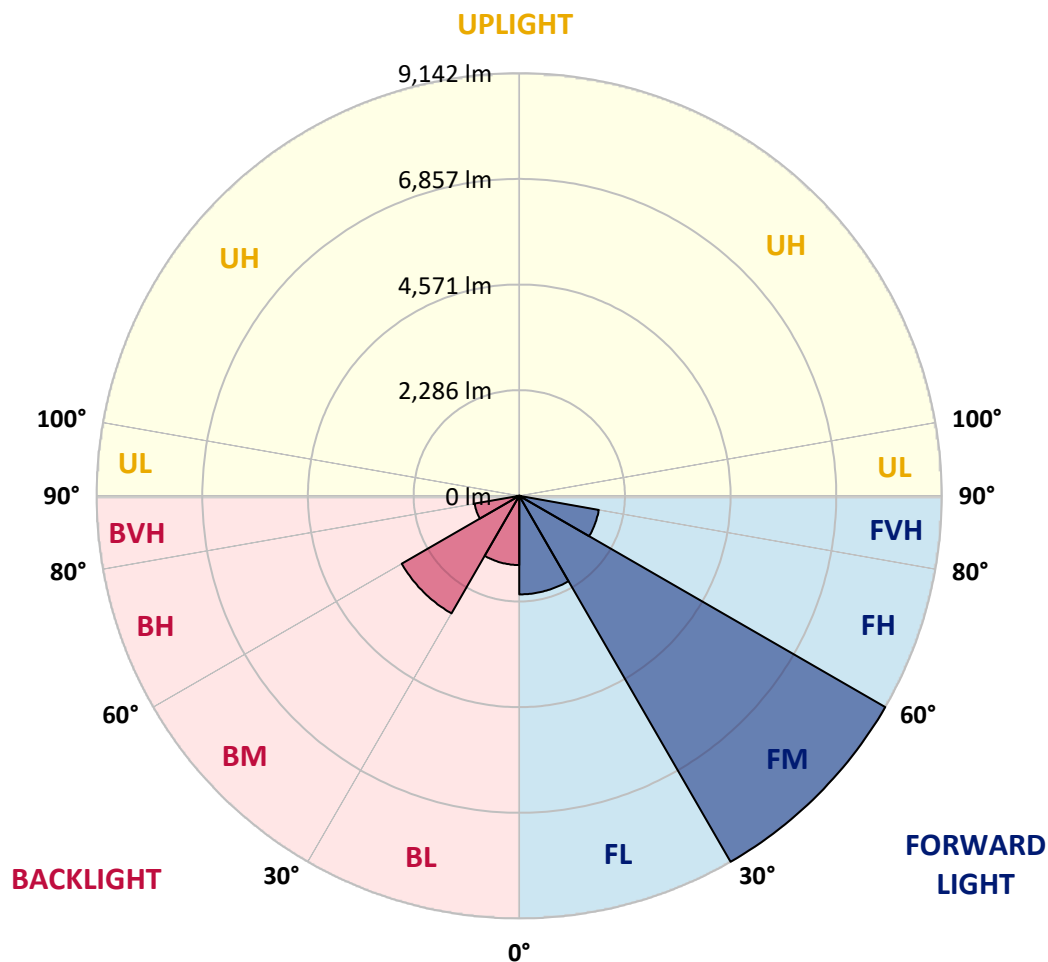
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2132.7	11.5			
FM (30°-60°)	9142.5	49.3			
FH (60°-80°)	1747.5	9.4			G1/1800
FVH (80°-90°)	39.2	0.2			G1/100
BL (0°-30°)	1497.4	8.1	B3/2500		
BM (30°-60°)	2936.2	15.8	B3/5000		
BH (60°-80°)	981.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	58.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6
2.5°	4511.7	4500.2	4527.9	4548.7	4574.1	4606.4	4622.5	4631.8	4712.6	4691.8	4754.1
5°	4414.7	4384.7	4405.5	4421.7	4465.5	4504.8	4548.7	4617.9	4691.8	4724.2	4800.3
7.5°	4329.3	4313.2	4308.5	4320.0	4380.1	4430.9	4507.1	4608.7	4728.8	4781.9	4825.7
10°	4188.5	4165.4	4200.0	4276.2	4292.4	4398.6	4486.4	4631.8	4735.7	4828.1	4957.3
12.5°	4126.1	4103.0	4110.0	4153.8	4267.0	4368.6	4472.5	4636.4	4855.8	4892.7	5065.9
15°	4225.4	4202.3	4209.3	4197.7	4306.2	4359.4	4523.2	4728.8	4938.9	5001.3	5186.0
17.5°	4451.7	4454.0	4424.0	4398.6	4373.2	4486.4	4599.5	4784.2	4971.2	5128.2	5266.8
20°	4883.5	4807.3	4747.3	4604.1	4564.8	4613.3	4756.5	4934.2	5102.8	5232.1	5389.2
22.5°	5216.0	5222.8	5137.4	4902.0	4816.5	4837.3	4959.7	5105.2	5289.9	5382.2	5562.3
25°	5698.5	5650.0	5557.7	5370.7	5179.0	5195.2	5285.2	5416.9	5467.6	5532.3	5728.6
27.5°	6139.6	6153.4	5971.0	5795.5	5557.7	5511.5	5673.1	5696.2	5610.8	5733.1	5800.2
30°	6587.5	6575.9	6455.8	6250.4	6017.2	6026.4	6098.0	5984.9	5867.1	5934.0	5980.2
32.5°	7051.6	6920.0	6915.4	6730.7	6552.8	6467.4	6379.6	6435.1	6252.6	6266.5	6222.7
35°	7423.3	7441.8	7335.6	7204.0	7116.2	6966.1	6726.0	6825.3	6790.6	6774.5	6585.2
37.5°	7693.4	7621.9	7675.0	7631.1	7548.0	7361.0	7111.6	7206.3	7222.5	7300.9	7081.6
40°	7915.1	7885.1	8026.0	8049.1	7991.3	7587.3	7139.3	7421.0	7663.5	7834.3	7573.4
42.5°	8021.4	8086.0	8233.8	8411.5	8282.3	7850.5	7282.4	7584.9	8125.3	8395.4	8039.8
45°	8164.5	8081.4	8300.7	8626.3	8628.6	8072.2	7421.0	7806.6	8485.4	8878.0	8358.4
47.5°	8019.0	8060.6	8286.9	8700.2	8806.4	8305.4	7795.1	8120.6	8882.6	9231.3	8654.0
50°	7693.4	7776.6	8189.9	8619.3	8940.3	8552.4	8224.6	8460.1	9249.7	9515.3	8702.5
52.5°	7354.1	7400.2	8046.7	8681.7	9000.4	8871.1	8799.5	8928.8	9697.7	9836.2	8762.6
55°	6430.5	6649.9	7573.4	8654.0	9293.6	9446.0	9390.6	9579.9	10205.6	10344.1	9090.4
56°	6003.3	6118.8	7289.4	8524.7	9351.3	9656.1	9628.4	9713.8	10475.8	10621.2	9141.2
57.5°	5213.7	5222.8	6215.8	7952.1	9134.2	9718.4	9690.7	9757.7	10422.7	10323.4	8695.6
60°	3262.6	3405.7	4230.0	6116.5	7767.4	9016.5	9173.5	8635.6	8787.9	8577.8	6765.3
62.5°	1690.2	1669.4	2216.6	3576.6	5155.9	6455.8	6601.3	6575.9	6340.4	6033.3	4419.3
65°	842.7	847.4	1159.1	1771.0	2641.5	3380.3	3786.7	3830.6	3204.8	2948.5	2096.6
67.5°	611.9	634.9	833.5	1082.9	1244.5	1392.3	1706.3	1674.0	1267.6	1205.3	1117.6
70°	475.7	496.4	676.5	826.6	750.4	750.4	817.4	845.1	902.8	928.2	958.2
72.5°	346.3	362.5	517.2	570.3	491.8	528.8	611.9	676.5	736.6	745.8	780.4
75°	237.8	251.7	339.4	314.0	295.6	364.8	448.0	508.0	551.9	575.0	595.7
77.5°	154.7	159.3	193.9	164.0	189.3	235.5	291.0	341.7	385.6	404.1	408.7
80°	69.3	76.2	83.2	103.9	131.6	168.6	207.8	249.4	277.1	284.0	297.9
82.5°	39.2	39.2	50.8	73.9	97.0	122.4	150.1	180.1	212.4	219.3	217.0
85°	20.7	20.7	30.0	43.8	60.1	71.6	69.3	71.6	76.2	87.8	85.4
87.5°	6.9	6.9	9.2	9.2	11.5	13.9	11.5	16.1	20.7	20.7	20.7
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°	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6	4742.6
2.5°	4735.7	4756.5	4728.8	4788.8	4788.8	4777.2	4719.5	4738.0	4751.9	4751.9	4763.4
5°	4825.7	4818.8	4837.3	4765.7	4721.8	4705.7	4611.0	4564.8	4525.6	4523.2	4488.6
7.5°	4876.5	4858.0	4851.2	4798.1	4604.1	4486.4	4283.2	4165.4	4140.0	4049.9	4084.6
10°	4957.3	4992.0	4957.3	4668.7	4398.6	4128.4	3929.9	3747.4	3675.9	3618.2	3583.5
12.5°	5123.6	5107.4	4906.6	4516.3	4137.7	3816.7	3521.2	3329.6	3258.0	3207.2	3202.5
15°	5264.4	5183.6	4876.5	4276.2	3731.3	3389.5	3147.1	3010.9	2978.5	2983.2	3004.0
17.5°	5313.0	5257.5	4719.5	4026.8	3428.8	3027.1	2913.9	2893.1	2923.2	2957.8	2967.0
20°	5389.2	5301.4	4654.9	3687.4	3054.8	2800.8	2793.8	2867.7	2923.2	2973.9	2980.9
22.5°	5548.4	5326.7	4444.8	3366.5	2798.4	2733.8	2800.8	2863.1	2948.5	2990.1	2953.2
25°	5594.6	5271.4	4149.2	2980.9	2636.8	2692.3	2763.8	2849.3	2909.3	2932.4	2948.5
27.5°	5633.8	5186.0	3749.8	2724.6	2586.0	2689.9	2763.8	2835.4	2867.7	2888.5	2907.0
30°	5744.7	5160.5	3403.4	2553.8	2553.8	2643.8	2738.5	2756.9	2800.8	2826.2	2858.5
32.5°	5800.2	4985.0	3047.8	2445.2	2521.4	2666.8	2673.8	2708.4	2710.7	2731.5	2696.9
35°	5945.6	4860.4	2717.6	2366.7	2535.3	2643.8	2678.4	2657.7	2544.5	2489.1	2500.6
37.5°	6051.8	4798.1	2479.8	2357.5	2537.5	2669.2	2687.6	2530.7	2412.9	2320.5	2343.6
40°	6338.2	4643.3	2299.7	2341.3	2558.4	2696.9	2646.1	2475.2	2262.8	2168.1	2151.9
42.5°	6557.5	4532.5	2186.6	2322.8	2574.5	2736.1	2625.3	2364.3	2147.4	2059.6	2082.7
45°	6811.5	4507.1	2126.5	2327.5	2602.2	2756.9	2599.9	2278.9	2048.0	2013.4	2006.5
47.5°	6901.5	4324.7	2061.9	2288.2	2595.3	2750.0	2514.4	2214.3	2011.1	2015.8	2034.2
50°	6751.4	4137.7	2013.4	2207.4	2549.1	2687.6	2380.6	2128.9	1990.3	2048.0	2080.4
52.5°	6559.7	3946.0	1914.1	2098.8	2454.5	2590.6	2318.2	2124.3	1969.6	1951.1	1958.0
55°	6617.5	3789.0	1775.6	1951.1	2302.0	2410.5	2248.9	2080.4	1918.7	1849.4	1872.5
56°	6430.5	3627.4	1685.6	1858.7	2198.1	2295.1	2214.3	2041.1	1877.2	1831.0	1831.0
57.5°	5901.7	3084.8	1567.8	1710.9	1978.8	2094.2	2147.4	2018.0	1831.0	1750.2	1752.5
60°	4352.4	2193.5	1406.2	1507.7	1639.4	1731.8	1978.8	1953.4	1715.6	1660.1	1639.4
62.5°	2683.0	1602.4	1290.7	1330.0	1397.0	1473.1	1727.1	1768.6	1593.2	1533.2	1519.3
65°	1503.1	1226.1	1203.0	1219.1	1251.5	1290.7	1433.8	1526.2	1406.2	1313.8	1309.2
67.5°	1099.1	1096.7	1115.2	1129.1	1142.9	1142.9	1177.6	1214.5	1198.4	1124.5	1117.6
70°	976.7	983.6	997.5	999.8	1004.4	988.2	960.5	949.0	967.5	921.3	912.0
72.5°	805.9	828.9	845.1	847.4	822.0	801.2	764.3	725.0	711.2	702.0	699.6
75°	618.8	634.9	641.9	639.6	630.3	600.3	556.5	517.2	491.8	464.1	477.9
77.5°	417.9	441.0	452.6	452.6	438.7	392.5	371.8	341.7	316.3	286.3	291.0
80°	293.2	309.4	327.8	325.6	302.5	279.4	249.4	221.7	200.9	177.8	175.5
82.5°	219.3	228.6	237.8	233.2	217.0	193.9	173.2	147.8	124.7	108.5	108.5
85°	78.5	85.4	103.9	108.5	117.8	117.8	99.3	83.2	66.9	55.4	55.4
87.5°	23.1	23.1	25.4	25.4	23.1	25.4	20.7	23.1	25.4	16.1	16.1
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)