

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: P530105

Luminaire Tested: **GALN-SA5B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16664 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

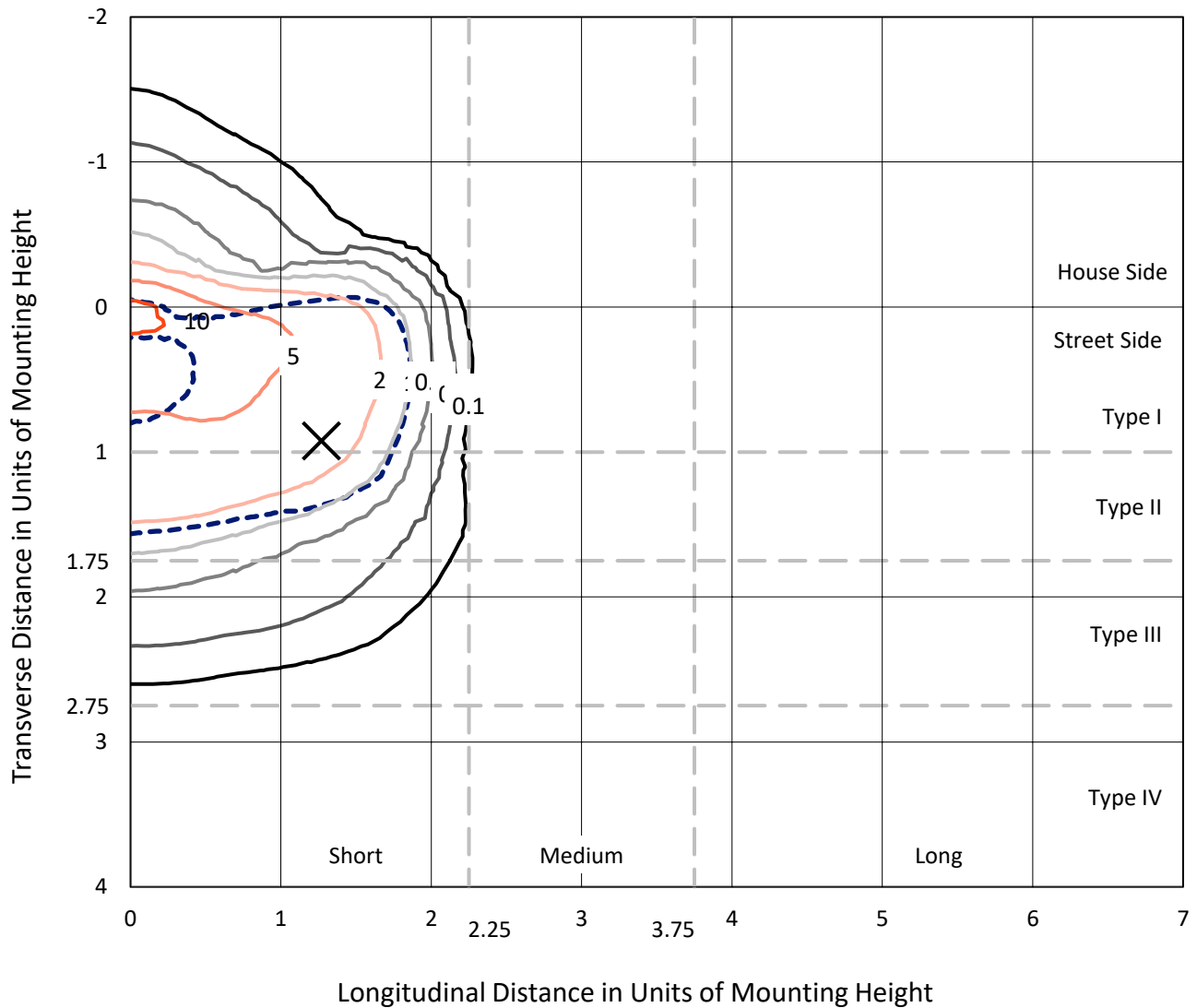
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

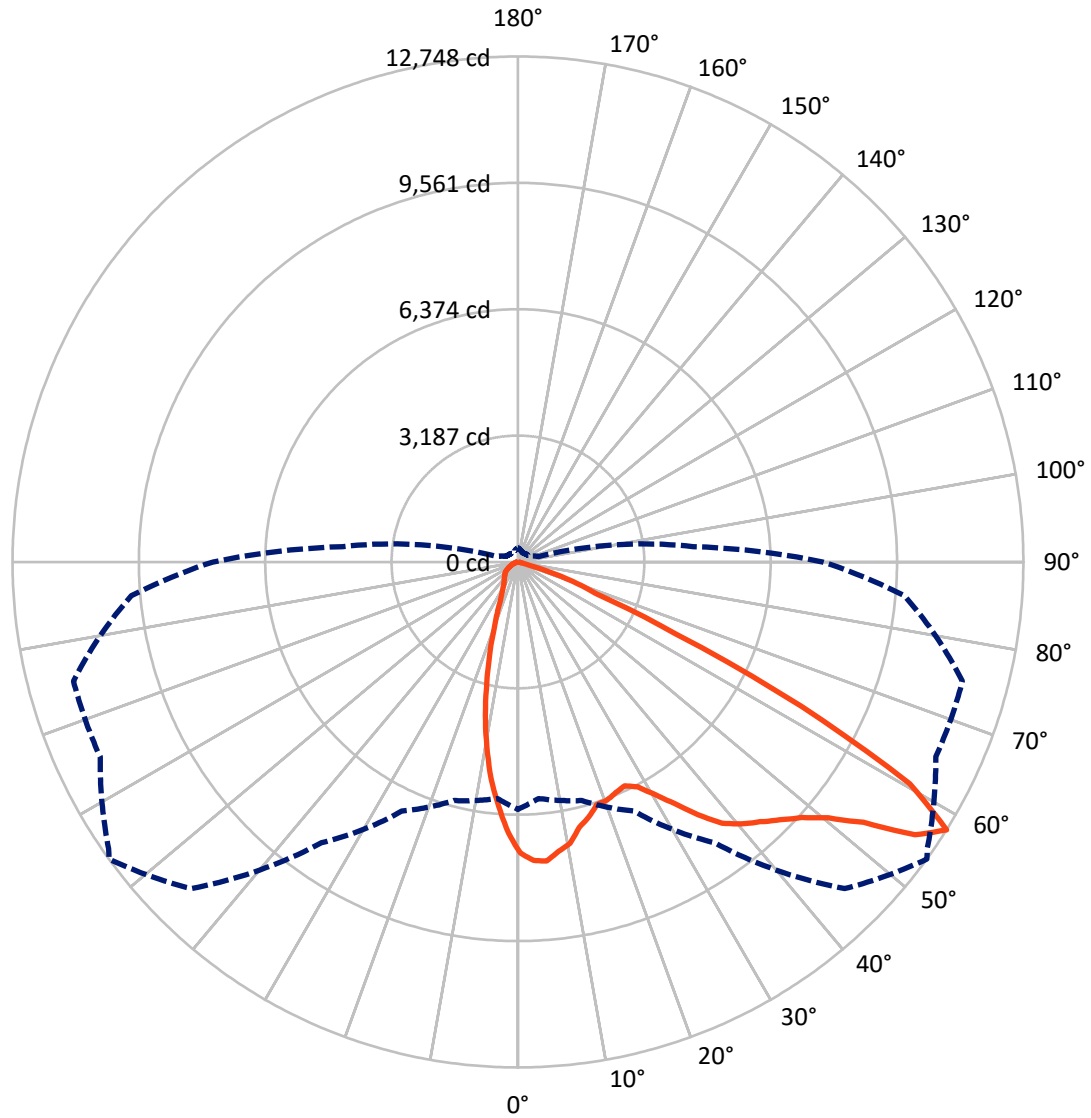
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2354.9	0.0	2354.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14309.1	0.0	14309.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	16664.0	0.0	16664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.3	3.7
10°-20°	1311.5	7.9
20°-30°	1738.0	10.4
30°-40°	2525.8	15.2
40°-50°	3745.4	22.5
50°-60°	4683.4	28.1
60°-70°	1847.4	11.1
70°-80°	184.0	1.1
80°-90°	14.3	0.1
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°	16664.0	100.0
0°-180°	16664.0	100.0

Coefficient of Utilization

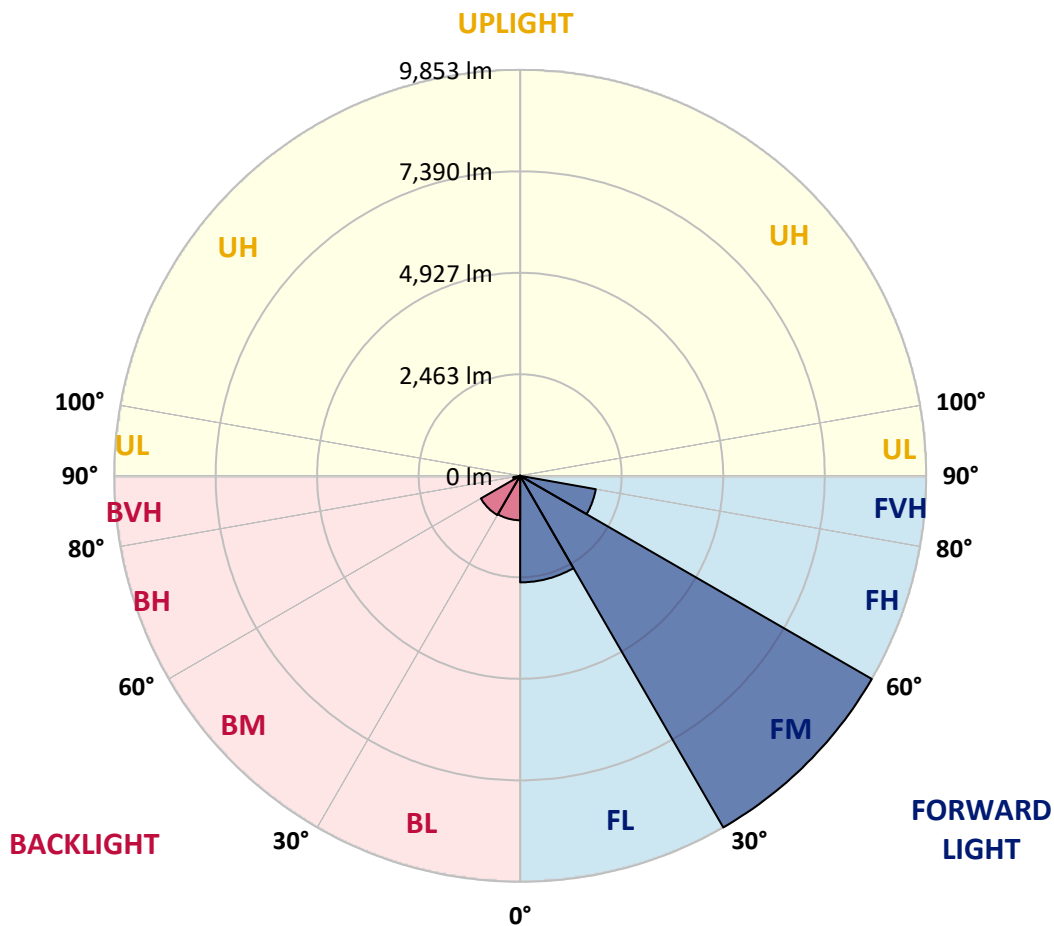


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2586.7	15.5			
FM (30°-60°)	9853.4	59.1			
FH (60°-80°)	1862.5	11.2			G2/5000
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	1077.0	6.5	B3/2500		
BM (30°-60°)	1101.2	6.6	B2/2500		
BH (60°-80°)	168.9	1.0	B1/500		G1/500
BVH (80°-90°)	7.8	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7
2.5°	7768.3	7687.8	7694.0	7666.1	7628.9	7656.8	7535.9	7563.8	7560.7	7396.5	7288.0
5°	7573.1	7659.9	7570.0	7644.4	7573.1	7650.6	7576.2	7520.4	7430.6	7309.7	7108.3
7.5°	7241.6	7157.9	7182.7	7275.6	7291.1	7464.7	7371.7	7443.0	7405.8	7167.2	6891.4
10°	6575.3	6556.8	6680.7	6804.6	6956.5	7142.4	7213.7	7173.4	7145.5	7055.6	6686.9
12.5°	6064.1	6116.7	6113.6	6318.2	6575.3	6680.7	6866.6	6860.4	7015.4	6848.0	6494.8
15°	5577.6	5605.5	5735.6	5862.7	6147.7	6448.3	6677.6	6708.6	6894.5	6776.8	6346.0
17.5°	5280.1	5239.8	5342.1	5493.9	5785.2	6178.7	6432.8	6507.2	6761.3	6736.5	6175.6
20°	4985.7	4985.7	5069.4	5249.1	5515.6	5958.7	6411.1	6389.4	6761.3	6690.0	5992.8
22.5°	4886.6	4936.2	4957.8	5094.2	5410.3	5791.4	6318.2	6358.4	6813.9	6668.3	5912.2
25°	5022.9	4957.8	4964.0	5072.5	5370.0	5710.8	6250.0	6339.9	6910.0	6776.8	5847.2
27.5°	5044.6	5109.7	5128.3	5202.6	5401.0	5735.6	6420.4	6603.2	7148.6	7030.9	5865.8
30°	5233.6	5298.7	5295.6	5422.6	5559.0	5937.0	6801.6	6838.7	7641.3	7350.0	5980.4
32.5°	5462.9	5531.1	5552.8	5701.5	5810.0	6305.8	7266.3	7362.4	8115.4	7852.0	6281.0
35°	5748.0	5723.2	5822.4	5971.1	6203.5	6844.9	7833.4	7994.5	8626.7	8502.7	6590.8
37.5°	6104.4	6073.4	6169.4	6411.1	6727.2	7483.3	8357.1	8462.4	8998.5	9107.0	7164.1
40°	6355.3	6367.7	6659.0	6984.4	7319.0	8090.6	8688.6	8790.9	9258.8	9670.9	7597.9
42.5°	6773.7	6851.1	7201.3	7597.9	7948.1	8546.1	8958.2	9057.4	9379.6	10123.3	8183.6
45°	7381.0	7346.9	7734.2	8177.4	8564.7	9020.2	9277.4	9243.3	9450.9	10572.6	8552.3
47.5°	8161.9	8168.1	8425.2	8803.3	9206.1	9432.3	9633.7	9512.9	9599.6	11046.7	9045.0
50°	8694.8	8741.3	8948.9	9336.3	9537.7	9884.7	10141.9	10067.5	10039.6	11331.8	9354.8
52.5°	8831.2	8970.6	9082.2	9565.6	10036.5	10585.0	10913.5	11071.5	10575.7	11427.8	9748.4
55°	7802.4	7926.4	8319.9	8983.0	10225.6	11694.3	12146.7	12149.8	11276.0	11855.5	10024.2
57.5°	6237.6	5986.6	6228.3	6931.7	8645.3	11647.8	12747.9	12602.2	11626.2	11604.5	9785.6
60°	4313.3	4251.4	4266.8	4545.7	5983.5	9265.0	11359.7	11548.7	10705.9	10058.2	7746.6
62.5°	3417.8	3365.1	3297.0	3266.0	3715.3	5772.8	8013.1	8279.6	7486.4	6522.7	4592.2
65°	2677.2	2646.3	2655.5	2779.5	2776.4	3275.3	4381.5	4273.0	3420.9	2528.5	1444.0
67.5°	1806.5	1853.0	1890.2	2265.1	2457.2	2280.6	2116.4	2054.4	1112.4	467.9	319.2
70°	1016.4	1022.6	1062.8	1416.1	1865.4	1769.3	1459.5	1459.5	554.7	170.4	182.8
72.5°	554.7	536.1	498.9	610.4	830.4	842.8	650.7	567.1	164.2	111.6	102.3
75°	269.6	266.5	229.3	189.0	179.7	148.7	114.7	105.4	74.4	71.3	62.0
77.5°	55.8	52.7	27.9	27.9	31.0	34.1	43.4	43.4	52.7	52.7	43.4
80°	0.0	0.0	3.1	12.4	21.7	31.0	37.2	37.2	43.4	43.4	34.1
82.5°	0.0	0.0	3.1	9.3	18.6	27.9	34.1	37.2	43.4	46.5	37.2
85°	0.0	0.0	0.0	6.2	15.5	21.7	18.6	18.6	15.5	12.4	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7	7340.7
2.5°	7232.3	7226.1	7083.5	7003.0	6857.3	6730.3	6628.0	6553.7	6553.7	6507.2	6463.8
5°	7027.8	6975.1	6671.4	6476.2	6200.4	5995.9	5856.5	5748.0	5577.6	5624.1	5441.2
7.5°	6773.7	6640.4	6237.6	5940.1	5559.0	5267.7	4970.2	4706.9	4452.8	4338.1	4400.1
10°	6501.0	6268.6	5726.3	5255.3	4781.2	4248.3	3901.2	3479.8	3219.5	3204.0	3135.8
12.5°	6212.8	5949.4	5289.4	4638.7	4015.9	3374.4	2844.6	2451.0	2274.4	2079.2	2116.4
15°	5995.9	5605.5	4802.9	4019.0	3191.6	2544.0	2011.0	1707.4	1540.0	1493.6	1478.1
17.5°	5760.4	5342.1	4307.1	3358.9	2503.7	1831.3	1447.1	1301.4	1236.4	1236.4	1227.1
20°	5515.6	5044.6	3814.4	2745.4	1877.8	1366.5	1158.9	1112.4	1109.3	1106.2	1106.2
22.5°	5354.5	4703.8	3368.2	2181.5	1416.1	1093.8	1007.1	988.5	1000.9	1038.0	1038.0
25°	5184.1	4375.3	2875.6	1682.6	1096.9	938.9	889.3	901.7	932.7	966.8	954.4
27.5°	5010.5	4161.5	2410.8	1320.0	898.6	821.1	802.6	830.4	864.5	895.5	886.2
30°	4970.2	3932.2	1970.7	1000.9	771.6	715.8	728.2	753.0	787.1	799.5	811.8
32.5°	5032.2	3752.5	1614.4	821.1	672.4	656.9	656.9	669.3	691.0	718.9	709.6
35°	5208.8	3650.2	1276.6	712.7	616.6	601.1	598.0	610.4	622.8	632.1	622.8
37.5°	5478.4	3569.7	1044.2	632.1	579.4	554.7	548.5	545.4	557.8	560.9	567.1
40°	5822.4	3613.0	886.2	582.5	542.3	514.4	495.8	495.8	495.8	505.1	508.2
42.5°	6194.2	3671.9	765.4	554.7	508.2	474.1	455.5	449.3	455.5	467.9	464.8
45°	6584.6	3786.6	687.9	511.3	477.2	433.8	409.0	402.8	418.3	443.1	440.0
47.5°	6950.3	3950.8	629.0	483.4	446.2	405.9	374.9	368.7	396.6	430.7	433.8
50°	7315.9	4235.9	607.3	461.7	424.5	378.0	350.1	344.0	374.9	418.3	427.6
52.5°	7737.3	4542.6	591.8	433.8	399.7	356.3	325.4	319.2	353.2	409.0	412.1
55°	8013.1	4802.9	579.4	384.2	353.2	322.3	297.5	294.4	331.6	381.1	393.5
57.5°	7690.9	4440.4	536.1	334.7	300.6	285.1	263.4	263.4	294.4	340.9	350.1
60°	5831.7	2922.0	381.1	269.6	254.1	244.8	235.5	235.5	260.3	294.4	297.5
62.5°	3414.7	1574.1	244.8	216.9	216.9	207.6	192.1	192.1	216.9	235.5	238.6
65°	1013.3	505.1	198.3	185.9	182.8	167.3	151.8	148.7	167.3	176.6	173.5
67.5°	291.3	232.4	164.2	154.9	151.8	127.0	117.7	114.7	117.7	111.6	108.5
70°	173.5	158.0	127.0	130.1	114.7	93.0	83.7	80.6	74.4	65.1	58.9
72.5°	96.1	96.1	93.0	99.2	80.6	62.0	52.7	43.4	34.1	27.9	24.8
75°	58.9	62.0	65.1	68.2	52.7	40.3	34.1	21.7	12.4	6.2	6.2
77.5°	40.3	43.4	46.5	49.6	43.4	37.2	27.9	15.5	3.1	0.0	0.0
80°	31.0	34.1	40.3	43.4	46.5	49.6	37.2	15.5	3.1	0.0	0.0
82.5°	34.1	37.2	46.5	43.4	43.4	43.4	34.1	15.5	3.1	0.0	0.0
85°	6.2	9.3	15.5	15.5	21.7	27.9	21.7	6.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)