

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: P532991

Luminaire Tested: **GALN-SA8B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532991
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-SA8B-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 19753 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

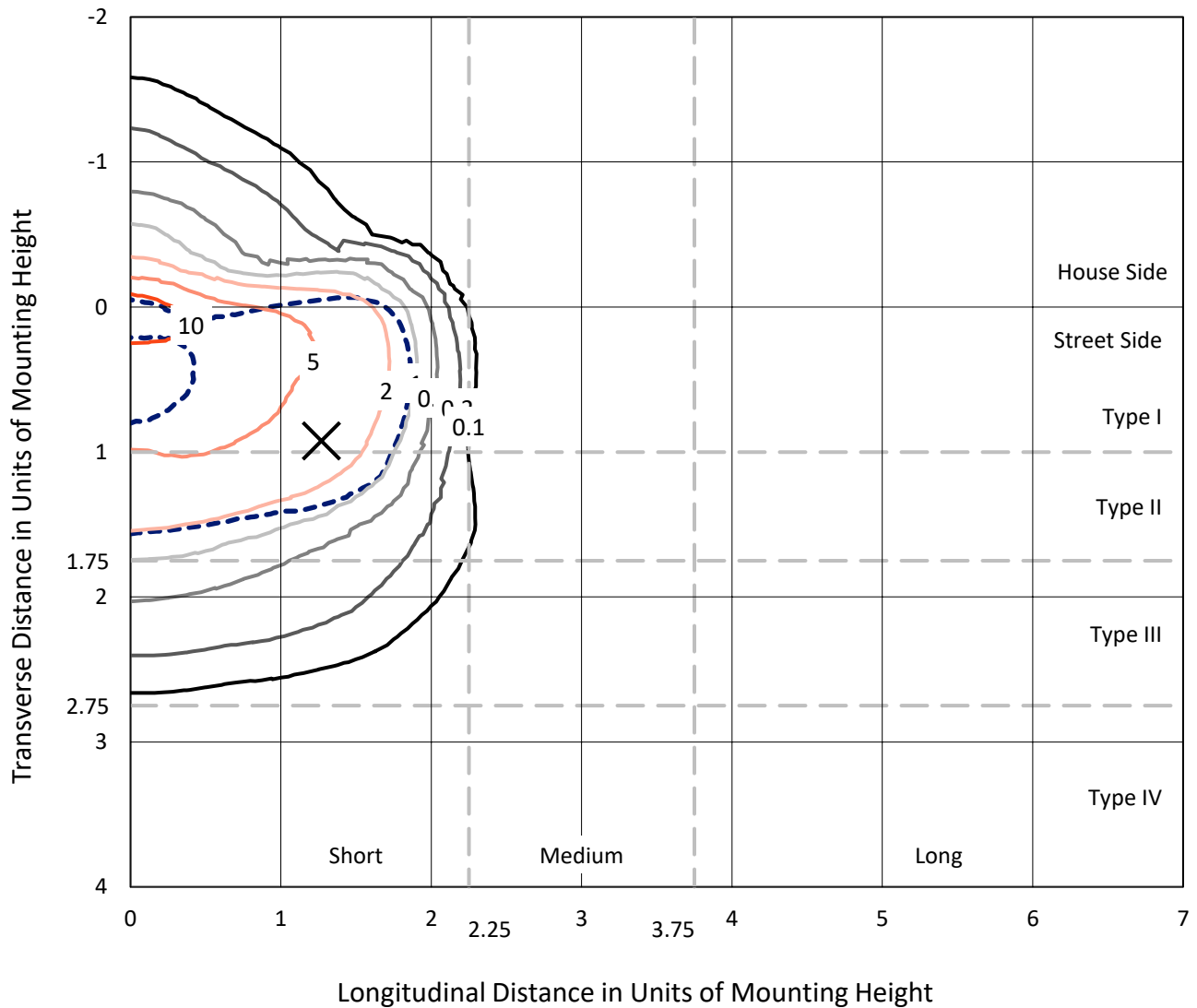
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

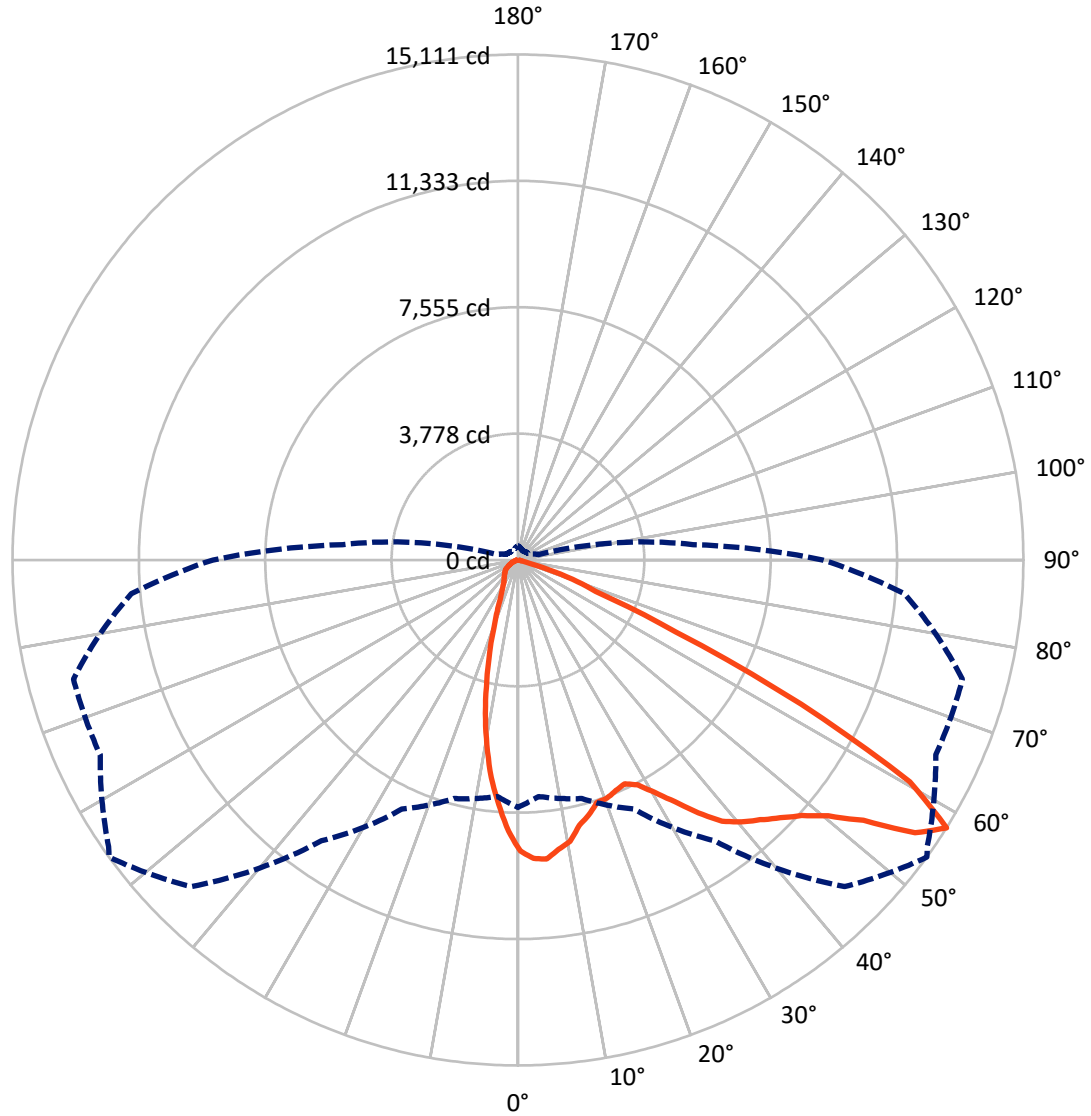
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	2791.4	0.0	2791.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16961.6	0.0	16961.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	19753.0	0.0	19753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.2	3.7
10°-20°	1554.6	7.9
20°-30°	2060.2	10.4
30°-40°	2994.0	15.2
40°-50°	4439.7	22.5
50°-60°	5551.6	28.1
60°-70°	2189.9	11.1
70°-80°	218.0	1.1
80°-90°	17.0	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°	19753.0	100.0
0°-180°	19753.0	100.0

Coefficient of Utilization



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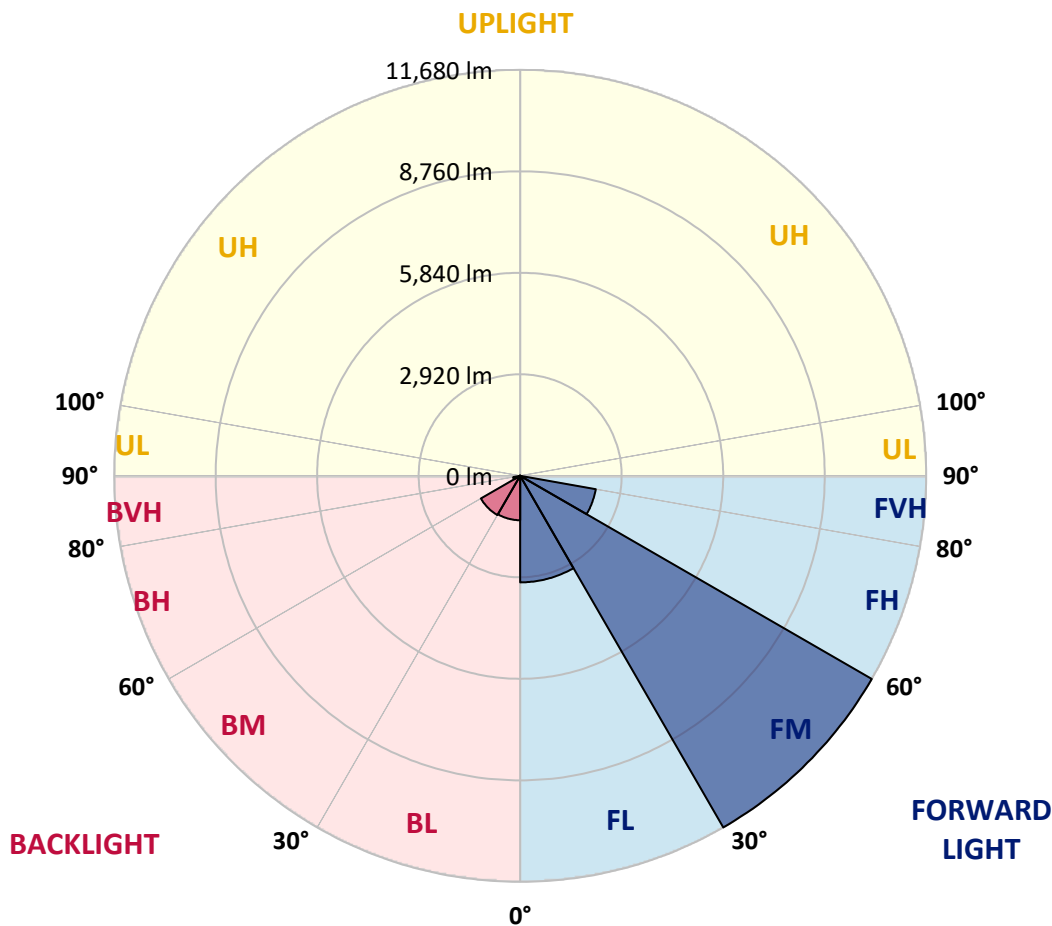
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3066.2	15.5			
FM (30°-60°)	11679.9	59.1			
FH (60°-80°)	2207.7	11.2			G2/5000
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	1276.7	6.5	B3/2500		
BM (30°-60°)	1305.3	6.6	B2/2500		
BH (60°-80°)	200.2	1.0	B1/500		G1/500
BVH (80°-90°)	9.3	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°	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5
2.5°	9208.3	9112.8	9120.2	9087.1	9043.1	9076.1	8932.9	8965.9	8962.2	8767.6	8639.0
5°	8976.9	9079.8	8973.3	9061.4	8976.9	9068.8	8980.6	8914.5	8808.0	8664.7	8426.0
7.5°	8583.9	8484.8	8514.1	8624.3	8642.7	8848.4	8738.2	8822.7	8778.6	8495.8	8168.9
10°	7794.2	7772.2	7919.1	8066.0	8246.0	8466.4	8550.9	8503.1	8470.1	8363.5	7926.4
12.5°	7188.2	7250.6	7246.9	7489.4	7794.2	7919.1	8139.5	8132.1	8315.8	8117.4	7698.7
15°	6611.5	6644.6	6798.8	6949.4	7287.3	7643.6	7915.4	7952.2	8172.5	8033.0	7522.4
17.5°	6258.9	6211.1	6332.3	6512.3	6857.6	7324.1	7625.3	7713.4	8014.6	7985.2	7320.4
20°	5909.9	5909.9	6009.1	6222.2	6538.0	7063.3	7599.5	7573.8	8014.6	7930.1	7103.7
22.5°	5792.4	5851.2	5876.9	6038.5	6413.2	6864.9	7489.4	7537.1	8077.0	7904.4	7008.2
25°	5954.0	5876.9	5884.2	6012.8	6365.4	6769.4	7408.5	7515.1	8190.9	8033.0	6931.1
27.5°	5979.7	6056.9	6078.9	6167.1	6402.1	6798.8	7610.6	7827.3	8473.7	8334.2	6953.1
30°	6203.8	6280.9	6277.2	6427.8	6589.5	7037.6	8062.4	8106.4	9057.7	8712.5	7089.0
32.5°	6475.6	6556.4	6582.1	6758.4	6887.0	7474.7	8613.3	8727.2	9619.7	9307.5	7445.3
35°	6813.5	6784.1	6901.7	7078.0	7353.5	8113.8	9285.5	9476.5	10225.8	10078.9	7812.6
37.5°	7235.9	7199.2	7313.0	7599.5	7974.2	8870.4	9906.2	10031.1	10666.5	10795.1	8492.1
40°	7533.4	7548.1	7893.4	8279.1	8675.8	9590.3	10299.2	10420.5	10975.1	11463.6	9006.3
42.5°	8029.3	8121.1	8536.2	9006.3	9421.4	10130.3	10618.8	10736.3	11118.3	11999.9	9700.5
45°	8749.2	8708.8	9167.9	9693.2	10152.3	10692.3	10997.1	10956.7	11202.8	12532.5	10137.6
47.5°	9674.8	9682.2	9987.0	10435.1	10912.6	11180.8	11419.5	11276.3	11379.1	13094.4	10721.6
50°	10306.6	10361.7	10607.8	11066.9	11305.7	11717.0	12021.9	11933.7	11900.7	13432.4	11088.9
52.5°	10468.2	10633.5	10765.7	11338.7	11897.0	12547.1	12936.5	13123.8	12536.1	13546.2	11555.4
55°	9248.7	9395.7	9862.1	10648.2	12121.1	13862.1	14398.4	14402.0	13366.2	14053.1	11882.3
57.5°	7393.9	7096.3	7382.8	8216.6	10247.8	13807.0	15110.9	14938.3	13781.3	13755.6	11599.5
60°	5112.9	5039.4	5057.8	5388.4	7092.7	10982.4	13465.4	13689.5	12690.4	11922.7	9182.6
62.5°	4051.4	3988.9	3908.1	3871.4	4404.0	6842.9	9498.5	9814.4	8874.1	7731.8	5443.5
65°	3173.5	3136.8	3147.8	3294.7	3291.1	3882.4	5193.7	5065.1	4055.1	2997.2	1711.6
67.5°	2141.4	2196.5	2240.6	2685.0	2912.7	2703.4	2508.7	2435.2	1318.6	554.6	378.3
70°	1204.8	1212.1	1259.9	1678.6	2211.2	2097.3	1730.0	1730.0	657.5	202.0	216.7
72.5°	657.5	635.4	591.4	723.6	984.4	999.1	771.3	672.2	194.7	132.2	121.2
75°	319.6	315.9	271.8	224.1	213.0	176.3	135.9	124.9	88.2	84.5	73.5
77.5°	66.1	62.4	33.1	33.1	36.7	40.4	51.4	51.4	62.4	62.4	51.4
80°	0.0	0.0	3.7	14.7	25.7	36.7	44.1	44.1	51.4	51.4	40.4
82.5°	0.0	0.0	3.7	11.0	22.0	33.1	40.4	44.1	51.4	55.1	44.1
85°	0.0	0.0	0.0	7.3	18.4	25.7	22.0	22.0	18.4	14.7	7.3
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°	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5	8701.5
2.5°	8572.9	8565.6	8396.6	8301.1	8128.5	7977.9	7856.7	7768.5	7768.5	7713.4	7662.0
5°	8330.5	8268.0	7908.1	7676.7	7349.8	7107.4	6942.1	6813.5	6611.5	6666.6	6449.9
7.5°	8029.3	7871.4	7393.9	7041.2	6589.5	6244.2	5891.6	5579.4	5278.2	5142.3	5215.7
10°	7706.1	7430.6	6787.8	6229.5	5667.5	5035.8	4624.4	4124.8	3816.3	3797.9	3717.1
12.5°	7364.5	7052.3	6269.9	5498.6	4760.3	4000.0	3371.9	2905.4	2696.0	2464.6	2508.7
15°	7107.4	6644.6	5693.2	4763.9	3783.2	3015.6	2383.8	2023.9	1825.5	1770.4	1752.0
17.5°	6828.2	6332.3	5105.5	3981.6	2967.8	2170.8	1715.3	1542.7	1465.5	1465.5	1454.5
20°	6538.0	5979.7	4521.5	3254.3	2225.9	1619.8	1373.7	1318.6	1315.0	1311.3	1311.3
22.5°	6347.0	5575.7	3992.6	2585.8	1678.6	1296.6	1193.7	1171.7	1186.4	1230.5	1230.5
25°	6145.0	5186.4	3408.6	1994.5	1300.3	1112.9	1054.2	1068.9	1105.6	1146.0	1131.3
27.5°	5939.3	4932.9	2857.6	1564.7	1065.2	973.4	951.3	984.4	1024.8	1061.5	1050.5
30°	5891.6	4661.1	2336.1	1186.4	914.6	848.5	863.2	892.6	933.0	947.6	962.3
32.5°	5965.0	4448.1	1913.7	973.4	797.1	778.7	778.7	793.4	819.1	852.1	841.1
35°	6174.4	4326.9	1513.3	844.8	730.9	712.6	708.9	723.6	738.3	749.3	738.3
37.5°	6494.0	4231.4	1237.8	749.3	686.9	657.5	650.1	646.5	661.1	664.8	672.2
40°	6901.7	4282.8	1050.5	690.5	642.8	609.7	587.7	587.7	587.7	598.7	602.4
42.5°	7342.4	4352.6	907.2	657.5	602.4	562.0	539.9	532.6	539.9	554.6	551.0
45°	7805.2	4488.5	815.4	606.1	565.7	514.2	484.8	477.5	495.9	525.2	521.6
47.5°	8238.7	4683.1	745.6	573.0	528.9	481.2	444.4	437.1	470.2	510.6	514.2
50°	8672.1	5021.1	719.9	547.3	503.2	448.1	415.1	407.7	444.4	495.9	506.9
52.5°	9171.6	5384.7	701.6	514.2	473.8	422.4	385.7	378.3	418.7	484.8	488.5
55°	9498.5	5693.2	686.9	455.5	418.7	382.0	352.6	348.9	393.0	451.8	466.5
57.5°	9116.5	5263.5	635.4	396.7	356.3	337.9	312.2	312.2	348.9	404.0	415.1
60°	6912.7	3463.7	451.8	319.6	301.2	290.2	279.2	279.2	308.5	348.9	352.6
62.5°	4047.7	1865.9	290.2	257.1	257.1	246.1	227.7	227.7	257.1	279.2	282.8
65°	1201.1	598.7	235.1	220.4	216.7	198.3	180.0	176.3	198.3	209.4	205.7
67.5°	345.3	275.5	194.7	183.7	180.0	150.6	139.6	135.9	139.6	132.2	128.6
70°	205.7	187.3	150.6	154.3	135.9	110.2	99.2	95.5	88.2	77.1	69.8
72.5°	113.9	113.9	110.2	117.5	95.5	73.5	62.4	51.4	40.4	33.1	29.4
75°	69.8	73.5	77.1	80.8	62.4	47.7	40.4	25.7	14.7	7.3	7.3
77.5°	47.7	51.4	55.1	58.8	51.4	44.1	33.1	18.4	3.7	0.0	0.0
80°	36.7	40.4	47.7	51.4	55.1	58.8	44.1	18.4	3.7	0.0	0.0
82.5°	40.4	44.1	55.1	51.4	51.4	51.4	40.4	18.4	3.7	0.0	0.0
85°	7.3	11.0	18.4	18.4	25.7	33.1	25.7	7.3	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)