

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: P530313

Luminaire Tested: **GALN-SA5C-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530313
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-SA5C-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 19180 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

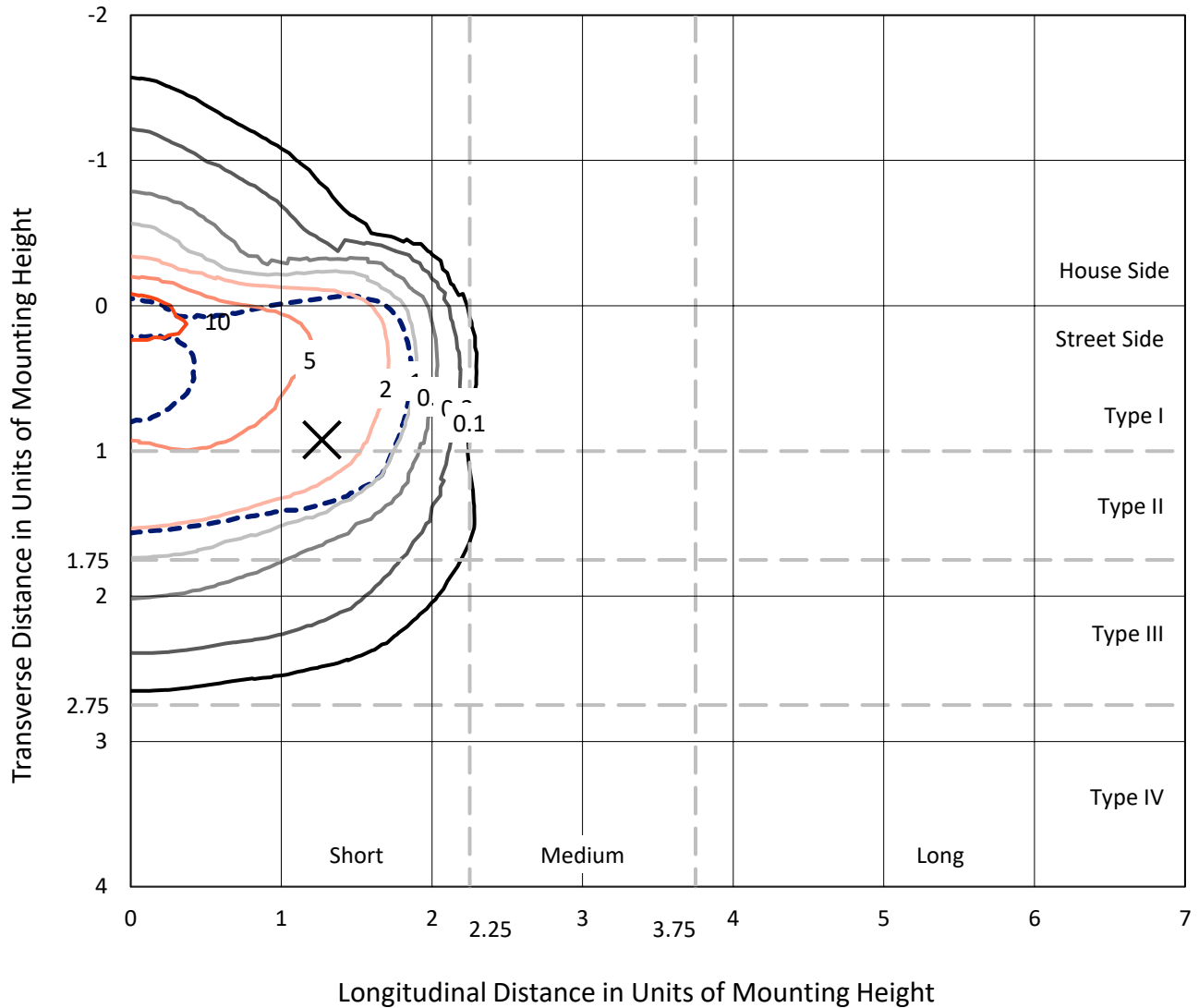
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

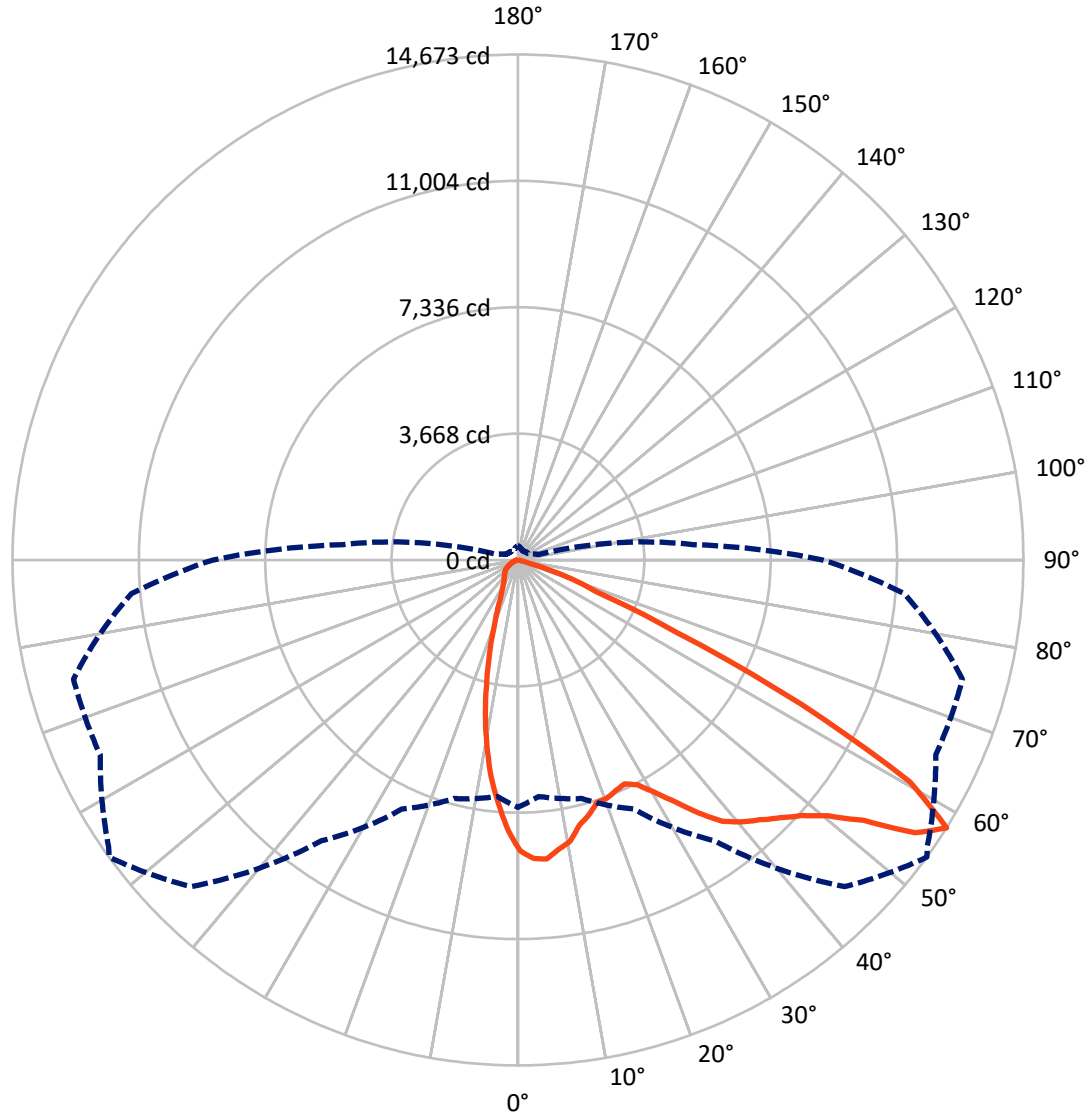
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	2710.5	0.0	2710.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16469.5	0.0	16469.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	19180.0	0.0	19180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.0	3.7
10°-20°	1509.5	7.9
20°-30°	2000.4	10.4
30°-40°	2907.1	15.2
40°-50°	4310.9	22.5
50°-60°	5390.6	28.1
60°-70°	2126.3	11.1
70°-80°	211.7	1.1
80°-90°	16.5	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°	19180.0	100.0
0°-180°	19180.0	100.0

Coefficient of Utilization



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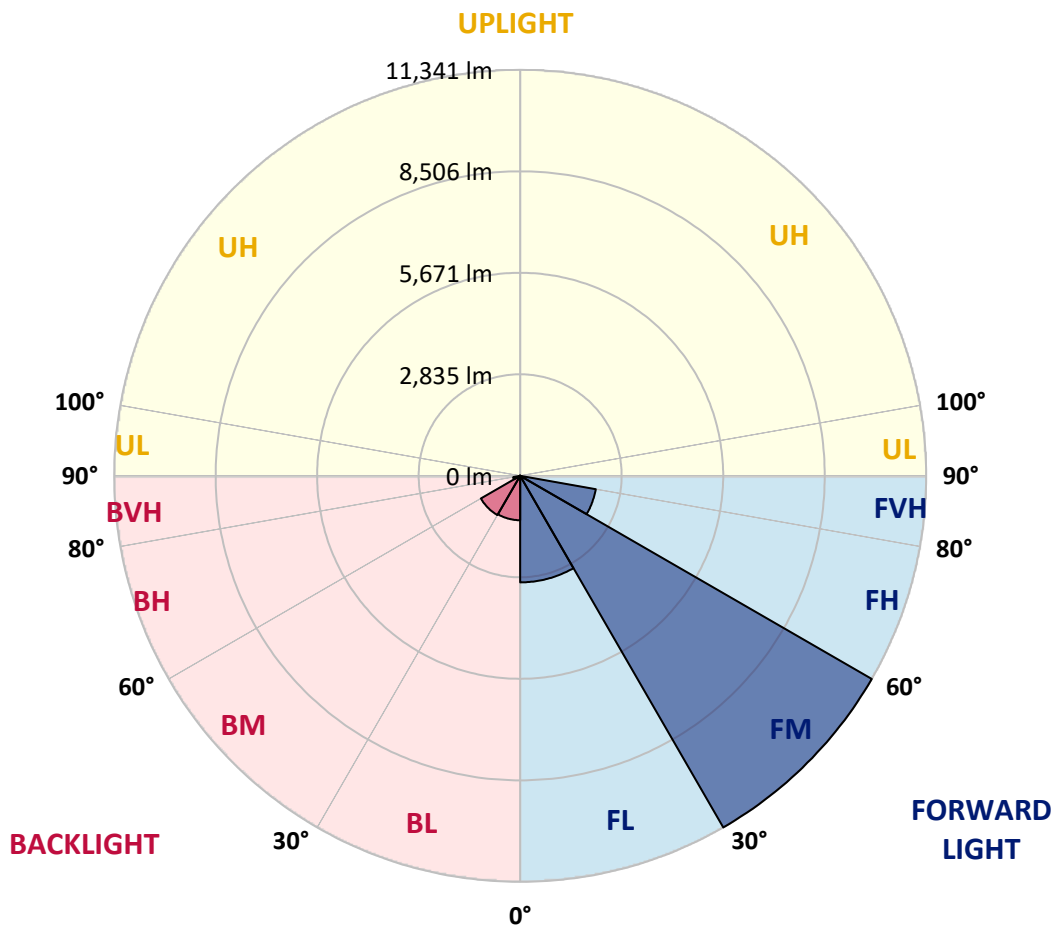
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2977.3	15.5			
FM (30°-60°)	11341.1	59.1			
FH (60°-80°)	2143.7	11.2			G2/5000
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	1239.6	6.5	B3/2500		
BM (30°-60°)	1267.5	6.6	B2/2500		
BH (60°-80°)	194.4	1.0	B1/500		G1/500
BVH (80°-90°)	9.0	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°	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0
2.5°	8941.2	8848.5	8855.6	8823.5	8780.7	8812.8	8673.7	8705.8	8702.3	8513.2	8388.4
5°	8716.5	8816.4	8713.0	8798.6	8716.5	8805.7	8720.1	8655.9	8552.5	8413.4	8181.6
7.5°	8334.9	8238.6	8267.2	8374.2	8392.0	8591.7	8484.7	8566.7	8523.9	8249.3	7931.9
10°	7568.1	7546.7	7689.4	7832.0	8006.8	8220.8	8302.8	8256.5	8224.4	8120.9	7696.5
12.5°	6979.6	7040.3	7036.7	7272.1	7568.1	7689.4	7903.4	7896.2	8074.6	7882.0	7475.4
15°	6419.7	6451.8	6601.6	6747.8	7075.9	7421.9	7685.8	7721.5	7935.5	7799.9	7304.2
17.5°	6077.3	6031.0	6148.7	6323.4	6658.7	7111.6	7404.1	7489.7	7782.1	7753.6	7108.0
20°	5738.5	5738.5	5834.8	6041.7	6348.4	6858.4	7379.1	7354.1	7782.1	7700.1	6897.6
22.5°	5624.4	5681.4	5706.4	5863.3	6227.1	6665.8	7272.1	7318.5	7842.7	7675.1	6804.9
25°	5781.3	5706.4	5713.5	5838.4	6180.8	6573.1	7193.6	7297.1	7953.3	7799.9	6730.0
27.5°	5806.3	5881.2	5902.6	5988.2	6216.4	6601.6	7389.8	7600.2	8227.9	8092.4	6751.4
30°	6023.8	6098.7	6095.2	6241.4	6398.3	6833.4	7828.5	7871.3	8795.0	8459.7	6883.4
32.5°	6287.7	6366.2	6391.2	6562.4	6687.2	7257.8	8363.5	8474.0	9340.7	9037.5	7229.3
35°	6615.9	6587.3	6701.5	6872.7	7140.1	7878.4	9016.1	9201.6	9929.1	9786.5	7586.0
37.5°	7026.0	6990.3	7100.9	7379.1	7742.9	8613.1	9618.9	9740.1	10357.1	10482.0	8245.8
40°	7314.9	7329.2	7664.4	8038.9	8424.1	9312.1	10000.5	10118.2	10656.7	11131.1	8745.1
42.5°	7796.4	7885.5	8288.6	8745.1	9148.1	9836.4	10310.8	10424.9	10795.8	11651.8	9419.1
45°	8495.4	8456.2	8902.0	9412.0	9857.8	10382.1	10678.1	10638.9	10877.8	12168.9	9843.6
47.5°	9394.2	9401.3	9697.3	10132.4	10596.1	10856.4	11088.3	10949.2	11049.0	12714.6	10410.6
50°	10007.6	10061.1	10300.1	10745.9	10977.7	11377.1	11673.2	11587.6	11555.5	13042.7	10767.3
52.5°	10164.5	10325.0	10453.4	11009.8	11551.9	12183.2	12561.2	12743.1	12172.5	13153.3	11220.2
55°	8980.5	9123.1	9576.1	10339.3	11769.5	13460.0	13980.7	13984.3	12978.5	13645.4	11537.6
57.5°	7179.4	6890.5	7168.7	7978.3	9950.5	13406.5	14672.6	14505.0	13381.5	13356.6	11263.0
60°	4964.6	4893.2	4911.1	5232.1	6886.9	10663.8	13074.8	13292.4	12322.3	11576.9	8916.3
62.5°	3933.9	3873.2	3794.8	3759.1	4276.2	6644.4	9223.0	9529.7	8616.7	7507.5	5285.6
65°	3081.5	3045.8	3056.5	3199.2	3195.6	3769.8	5043.0	4918.2	3937.4	2910.3	1662.0
67.5°	2079.3	2132.8	2175.6	2607.1	2828.2	2624.9	2435.9	2364.6	1280.4	538.5	367.3
70°	1169.8	1176.9	1223.3	1629.9	2147.0	2036.5	1679.8	1679.8	638.4	196.2	210.4
72.5°	638.4	617.0	574.2	702.6	955.8	970.1	749.0	652.7	189.0	128.4	117.7
75°	310.3	306.7	263.9	217.6	206.9	171.2	132.0	121.3	85.6	82.0	71.3
77.5°	64.2	60.6	32.1	32.1	35.7	39.2	49.9	49.9	60.6	60.6	49.9
80°	0.0	0.0	3.6	14.3	25.0	35.7	42.8	42.8	49.9	49.9	39.2
82.5°	0.0	0.0	3.6	10.7	21.4	32.1	39.2	42.8	49.9	53.5	42.8
85°	0.0	0.0	0.0	7.1	17.8	25.0	21.4	21.4	17.8	14.3	7.1
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°	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0	8449.0
2.5°	8324.2	8317.1	8153.0	8060.3	7892.7	7746.4	7628.8	7543.2	7543.2	7489.7	7439.7
5°	8088.8	8028.2	7678.7	7454.0	7136.6	6901.2	6740.7	6615.9	6419.7	6473.2	6262.8
7.5°	7796.4	7643.0	7179.4	6837.0	6398.3	6063.1	5720.7	5417.5	5125.1	4993.1	5064.4
10°	7482.5	7215.0	6590.9	6048.8	5503.1	4889.7	4490.2	4005.2	3705.6	3687.8	3609.3
12.5°	7150.8	6847.7	6088.0	5339.1	4622.2	3883.9	3274.1	2821.1	2617.8	2393.1	2435.9
15°	6901.2	6451.8	5528.1	4625.8	3673.5	2928.1	2314.7	1965.1	1772.6	1719.1	1701.2
17.5°	6630.1	6148.7	4957.4	3866.1	2881.7	2107.8	1665.6	1497.9	1423.0	1423.0	1412.3
20°	6348.4	5806.3	4390.4	3159.9	2161.3	1572.8	1333.9	1280.4	1276.8	1273.2	1273.2
22.5°	6162.9	5414.0	3876.8	2510.8	1629.9	1259.0	1159.1	1137.7	1152.0	1194.8	1194.8
25°	5966.8	5035.9	3309.7	1936.6	1262.5	1080.7	1023.6	1037.9	1073.5	1112.7	1098.5
27.5°	5767.0	4789.8	2774.7	1519.3	1034.3	945.1	923.7	955.8	995.1	1030.7	1020.0
30°	5720.7	4525.9	2268.3	1152.0	888.1	823.9	838.1	866.7	905.9	920.2	934.4
32.5°	5792.0	4319.0	1858.1	945.1	773.9	756.1	756.1	770.4	795.3	827.4	816.7
35°	5995.3	4201.3	1469.4	820.3	709.7	691.9	688.3	702.6	716.9	727.6	716.9
37.5°	6305.6	4108.6	1201.9	727.6	666.9	638.4	631.3	627.7	642.0	645.5	652.7
40°	6701.5	4158.5	1020.0	670.5	624.1	592.0	570.6	570.6	570.6	581.3	584.9
42.5°	7129.4	4226.3	880.9	638.4	584.9	545.7	524.3	517.1	524.3	538.5	535.0
45°	7578.8	4358.3	791.8	588.5	549.2	499.3	470.8	463.6	481.5	510.0	506.4
47.5°	7999.7	4547.3	724.0	556.4	513.6	467.2	431.5	424.4	456.5	495.7	499.3
50°	8420.5	4875.4	699.0	531.4	488.6	435.1	403.0	395.9	431.5	481.5	492.2
52.5°	8905.6	5228.5	681.2	499.3	460.1	410.1	374.5	367.3	406.6	470.8	474.3
55°	9223.0	5528.1	666.9	442.2	406.6	370.9	342.4	338.8	381.6	438.7	452.9
57.5°	8852.1	5110.8	617.0	385.2	346.0	328.1	303.2	303.2	338.8	392.3	403.0
60°	6712.2	3363.2	438.7	310.3	292.5	281.8	271.1	271.1	299.6	338.8	342.4
62.5°	3930.3	1811.8	281.8	249.7	249.7	239.0	221.1	221.1	249.7	271.1	274.6
65°	1166.2	581.3	228.3	214.0	210.4	192.6	174.8	171.2	192.6	203.3	199.7
67.5°	335.3	267.5	189.0	178.3	174.8	146.2	135.5	132.0	135.5	128.4	124.8
70°	199.7	181.9	146.2	149.8	132.0	107.0	96.3	92.7	85.6	74.9	67.8
72.5°	110.6	110.6	107.0	114.1	92.7	71.3	60.6	49.9	39.2	32.1	28.5
75°	67.8	71.3	74.9	78.5	60.6	46.4	39.2	25.0	14.3	7.1	7.1
77.5°	46.4	49.9	53.5	57.1	49.9	42.8	32.1	17.8	3.6	0.0	0.0
80°	35.7	39.2	46.4	49.9	53.5	57.1	42.8	17.8	3.6	0.0	0.0
82.5°	39.2	42.8	53.5	49.9	49.9	49.9	39.2	17.8	3.6	0.0	0.0
85°	7.1	10.7	17.8	17.8	25.0	32.1	25.0	7.1	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)