

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: P531041

Luminaire Tested: **GALN-SA6B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531041
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-SA6B-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 19733 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

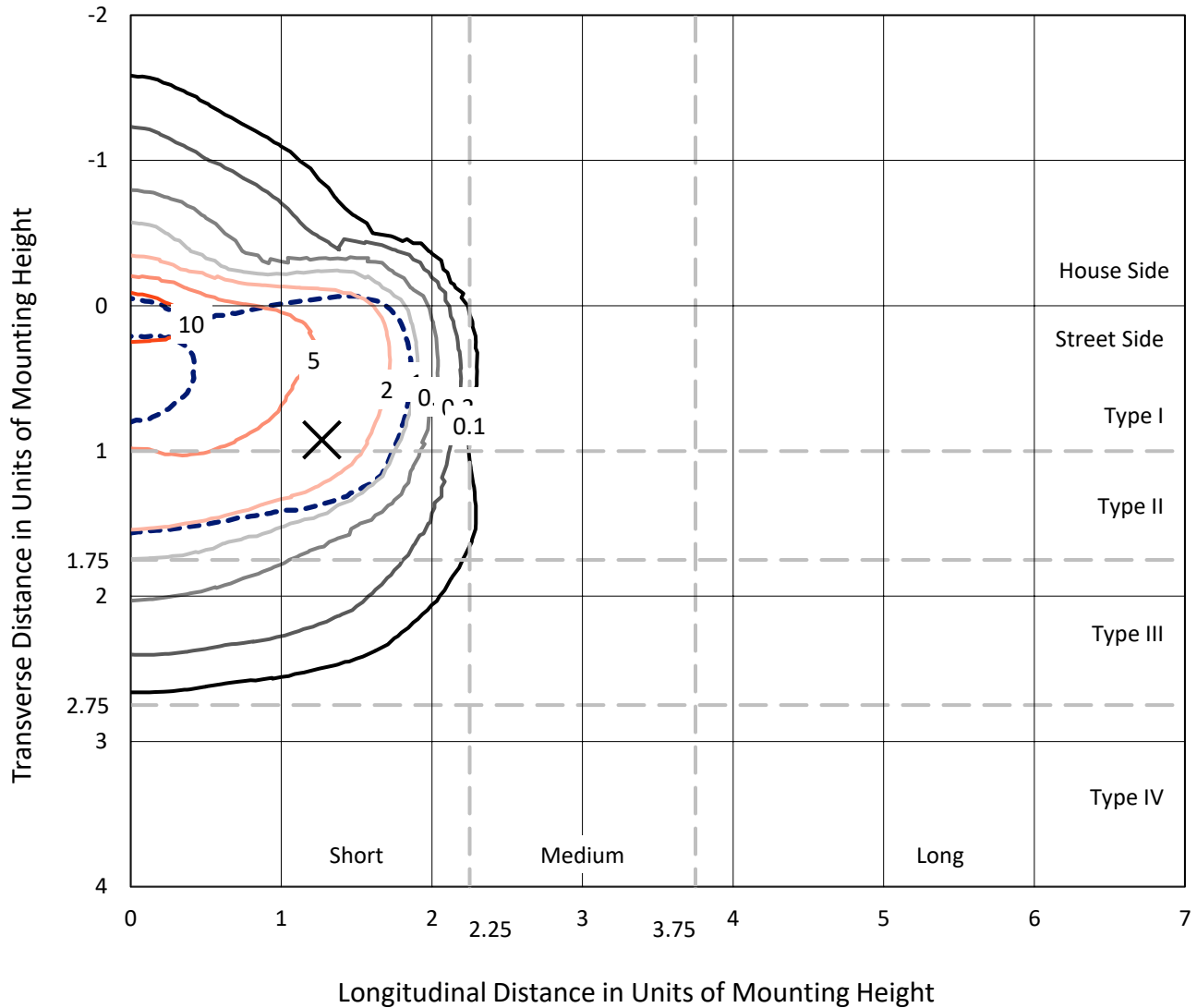
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

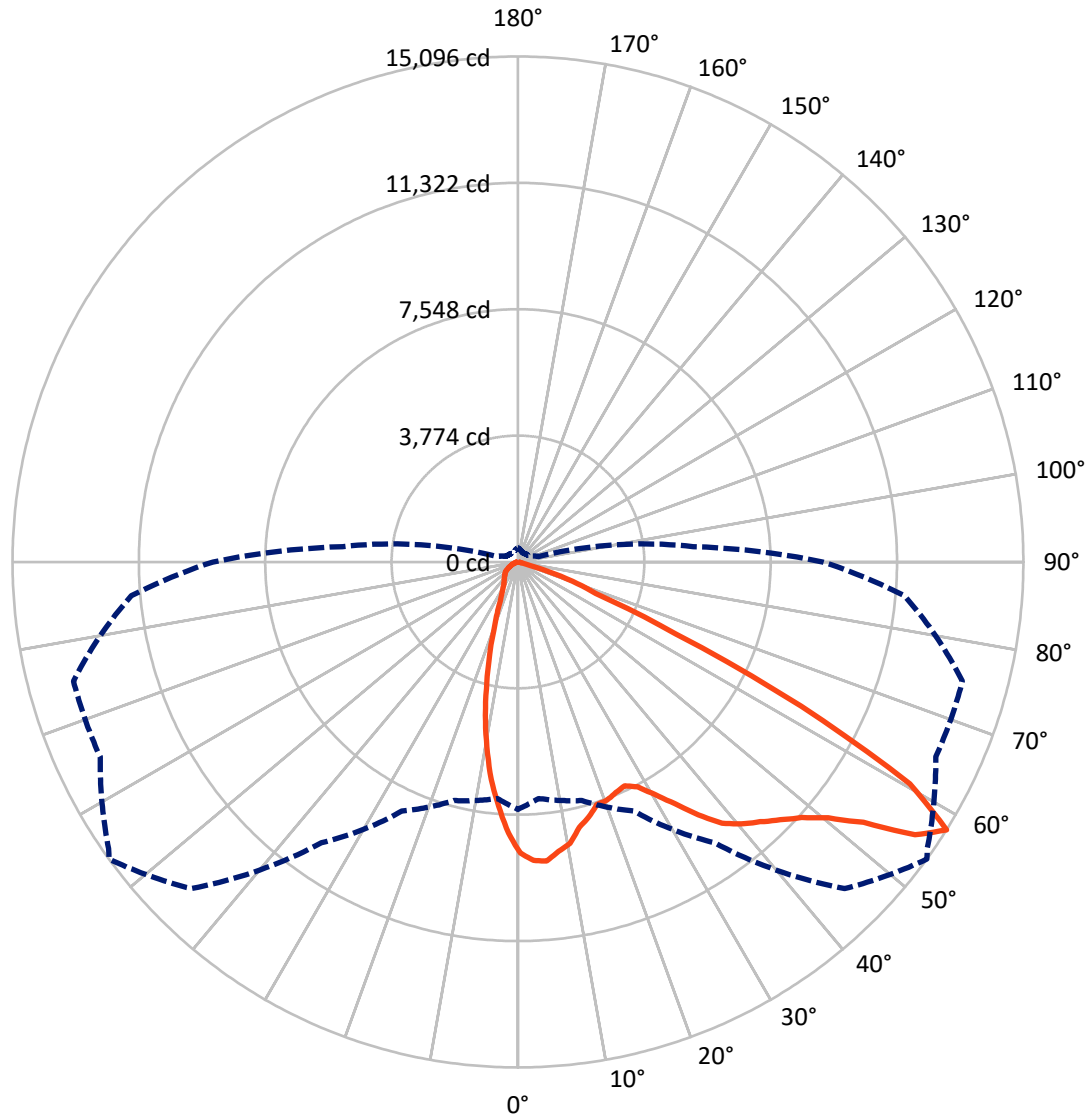
✕ Max cd
 - - - 1/2 Max cd



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	2788.6	0.0	2788.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16944.4	0.0	16944.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	19733.0	0.0	19733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.4	3.7
10°-20°	1553.0	7.9
20°-30°	2058.1	10.4
30°-40°	2990.9	15.2
40°-50°	4435.2	22.5
50°-60°	5546.0	28.1
60°-70°	2187.6	11.1
70°-80°	217.8	1.1
80°-90°	16.9	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°	19733.0	100.0
0°-180°	19733.0	100.0

Coefficient of Utilization



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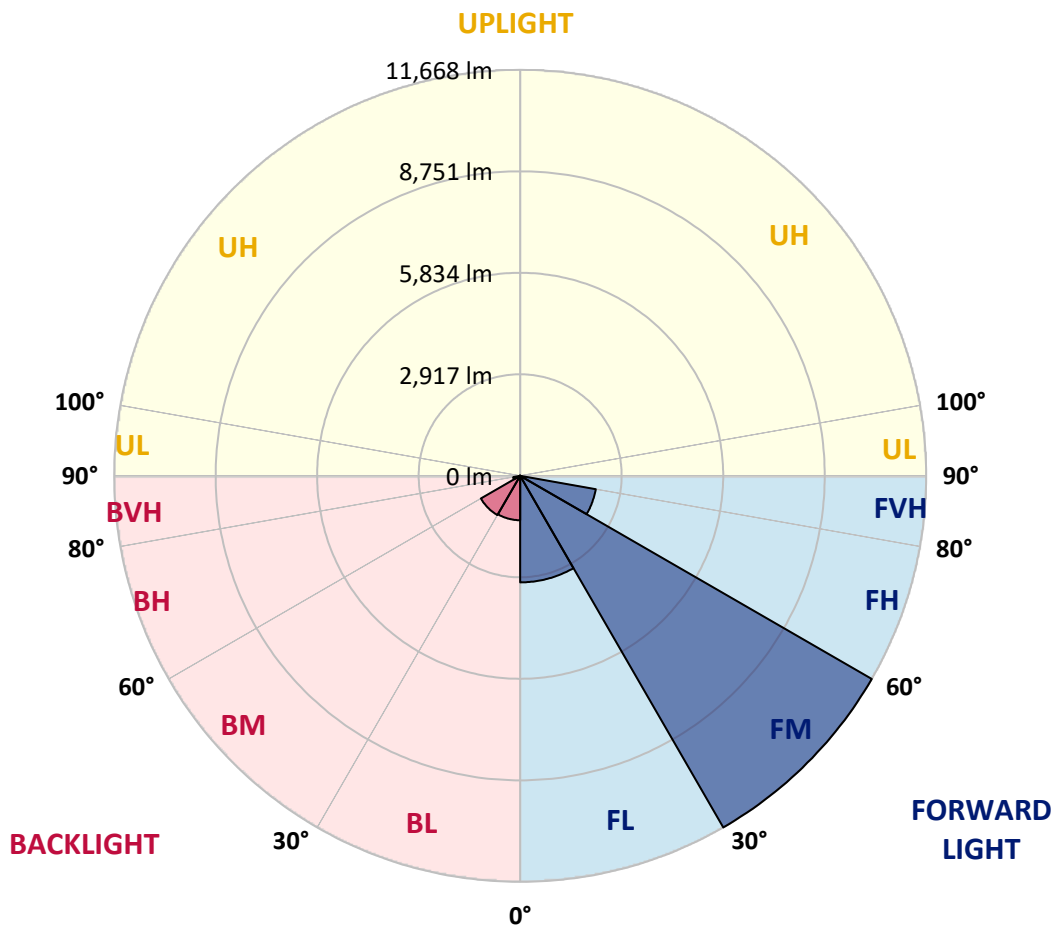
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3063.1	15.5			
FM (30°-60°)	11668.1	59.1			
FH (60°-80°)	2205.5	11.2			G2/5000
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	1275.4	6.5	B3/2500		
BM (30°-60°)	1304.0	6.6	B2/2500		
BH (60°-80°)	200.0	1.0	B1/500		G1/500
BVH (80°-90°)	9.2	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°	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7
2.5°	9199.0	9103.6	9111.0	9077.9	9033.9	9066.9	8923.8	8956.8	8953.2	8758.7	8630.3
5°	8967.9	9070.6	8964.2	9052.2	8967.9	9059.6	8971.5	8905.5	8799.1	8656.0	8417.5
7.5°	8575.2	8476.2	8505.5	8615.6	8633.9	8839.4	8729.3	8813.7	8769.7	8487.2	8160.6
10°	7786.3	7764.3	7911.1	8057.9	8237.7	8457.8	8542.2	8494.5	8461.5	8355.1	7918.4
12.5°	7180.9	7243.3	7239.6	7481.8	7786.3	7911.1	8131.2	8123.9	8307.4	8109.2	7690.9
15°	6604.8	6637.8	6791.9	6942.4	7280.0	7635.9	7907.4	7944.1	8164.3	8024.8	7514.8
17.5°	6252.5	6204.8	6325.9	6505.7	6850.6	7316.7	7617.5	7705.6	8006.5	7977.1	7313.0
20°	5904.0	5904.0	6003.0	6215.9	6531.4	7056.1	7591.9	7566.2	8006.5	7922.1	7096.5
22.5°	5786.5	5845.2	5870.9	6032.4	6406.7	6858.0	7481.8	7529.5	8068.9	7896.4	7001.1
25°	5948.0	5870.9	5878.3	6006.7	6359.0	6762.6	7401.0	7507.5	8182.6	8024.8	6924.0
27.5°	5973.7	6050.7	6072.7	6160.8	6395.6	6791.9	7602.9	7819.4	8465.2	8325.7	6946.0
30°	6197.5	6274.6	6270.9	6421.3	6582.8	7030.4	8054.2	8098.2	9048.6	8703.7	7081.8
32.5°	6469.0	6549.8	6575.4	6751.6	6880.0	7467.1	8604.6	8718.3	9610.0	9298.1	7437.7
35°	6806.6	6777.3	6894.7	7070.8	7346.0	8105.6	9276.1	9466.9	10215.4	10068.7	7804.7
37.5°	7228.6	7191.9	7305.6	7591.9	7966.1	8861.4	9896.2	10021.0	10655.7	10784.2	8483.5
40°	7525.8	7540.5	7885.4	8270.7	8667.0	9580.6	10288.8	10409.9	10964.0	11452.0	8997.2
42.5°	8021.2	8112.9	8527.5	8997.2	9411.8	10120.0	10608.0	10725.5	11107.1	11987.7	9690.7
45°	8740.4	8700.0	9158.7	9683.4	10142.0	10681.4	10986.0	10945.6	11191.5	12519.8	10127.4
47.5°	9665.0	9672.4	9976.9	10424.6	10901.6	11169.5	11408.0	11264.9	11367.6	13081.2	10710.8
50°	10296.2	10351.2	10597.0	11055.7	11294.2	11705.2	12009.7	11921.7	11888.6	13418.8	11077.7
52.5°	10457.6	10622.7	10754.8	11327.2	11885.0	12534.4	12923.4	13110.5	12523.4	13532.5	11543.7
55°	9239.4	9386.2	9852.2	10637.4	12108.8	13848.1	14383.8	14387.5	13352.7	14038.9	11870.3
57.5°	7386.4	7089.2	7375.4	8208.3	10237.4	13793.0	15095.6	14923.2	13767.3	13741.7	11587.8
60°	5107.7	5034.3	5052.7	5382.9	7085.5	10971.3	13451.8	13675.6	12677.5	11910.7	9173.3
62.5°	4047.3	3984.9	3904.2	3867.5	4399.5	6836.0	9488.9	9804.5	8865.1	7723.9	5438.0
65°	3170.3	3133.6	3144.6	3291.4	3287.7	3878.5	5188.4	5060.0	4050.9	2994.2	1709.9
67.5°	2139.2	2194.3	2238.3	2682.3	2909.8	2700.6	2506.2	2432.8	1317.3	554.1	377.9
70°	1203.5	1210.9	1258.6	1676.9	2208.9	2095.2	1728.3	1728.3	656.8	201.8	216.5
72.5°	656.8	634.8	590.8	722.9	983.4	998.1	770.6	671.5	194.5	132.1	121.1
75°	319.2	315.6	271.5	223.8	212.8	176.1	135.8	124.8	88.1	84.4	73.4
77.5°	66.0	62.4	33.0	33.0	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	44.0	44.0	51.4	51.4	40.4
82.5°	0.0	0.0	3.7	11.0	22.0	33.0	40.4	44.0	51.4	55.0	44.0
85°	0.0	0.0	0.0	7.3	18.3	25.7	22.0	22.0	18.3	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°	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7	8692.7
2.5°	8564.2	8556.9	8388.1	8292.7	8120.2	7969.8	7848.7	7760.6	7760.6	7705.6	7654.2
5°	8322.0	8259.7	7900.1	7668.9	7342.3	7100.2	6935.0	6806.6	6604.8	6659.8	6443.4
7.5°	8021.2	7863.4	7386.4	7034.1	6582.8	6237.9	5885.6	5573.7	5272.8	5137.1	5210.5
10°	7698.3	7423.1	6780.9	6223.2	5661.8	5030.7	4619.7	4120.7	3812.4	3794.1	3713.4
12.5°	7357.0	7045.1	6263.6	5493.0	4755.5	3995.9	3368.4	2902.4	2693.3	2462.1	2506.2
15°	7100.2	6637.8	5687.5	4759.1	3779.4	3012.5	2381.4	2021.8	1823.7	1768.6	1750.3
17.5°	6821.3	6325.9	5100.4	3977.6	2964.8	2168.6	1713.6	1541.1	1464.1	1464.1	1453.1
20°	6531.4	5973.7	4517.0	3251.0	2223.6	1618.2	1372.3	1317.3	1313.6	1310.0	1310.0
22.5°	6340.6	5570.0	3988.6	2583.2	1676.9	1295.3	1192.5	1170.5	1185.2	1229.2	1229.2
25°	6138.8	5181.1	3405.1	1992.4	1298.9	1111.8	1053.1	1067.8	1104.5	1144.8	1130.2
27.5°	5933.3	4927.9	2854.7	1563.1	1064.1	972.4	950.4	983.4	1023.7	1060.4	1049.4
30°	5885.6	4656.4	2333.7	1185.2	913.7	847.6	862.3	891.6	932.0	946.7	961.4
32.5°	5959.0	4443.6	1911.7	972.4	796.2	777.9	777.9	792.6	818.3	851.3	840.3
35°	6168.2	4322.5	1511.8	843.9	730.2	711.9	708.2	722.9	737.5	748.5	737.5
37.5°	6487.4	4227.1	1236.6	748.5	686.2	656.8	649.5	645.8	660.5	664.1	671.5
40°	6894.7	4278.4	1049.4	689.8	642.1	609.1	587.1	587.1	587.1	598.1	601.8
42.5°	7335.0	4348.2	906.3	656.8	601.8	561.4	539.4	532.1	539.4	554.1	550.4
45°	7797.3	4483.9	814.6	605.4	565.1	513.7	484.4	477.0	495.4	524.7	521.0
47.5°	8230.3	4678.4	744.9	572.4	528.4	480.7	444.0	436.7	469.7	510.0	513.7
50°	8663.3	5016.0	719.2	546.7	502.7	447.7	414.6	407.3	444.0	495.4	506.4
52.5°	9162.3	5379.2	700.8	513.7	473.3	422.0	385.3	377.9	418.3	484.4	488.0
55°	9488.9	5687.5	686.2	455.0	418.3	381.6	352.3	348.6	392.6	451.3	466.0
57.5°	9107.3	5258.2	634.8	396.3	355.9	337.6	311.9	311.9	348.6	403.6	414.6
60°	6905.7	3460.2	451.3	319.2	300.9	289.9	278.9	278.9	308.2	348.6	352.3
62.5°	4043.6	1864.0	289.9	256.9	256.9	245.8	227.5	227.5	256.9	278.9	282.5
65°	1199.9	598.1	234.8	220.2	216.5	198.1	179.8	176.1	198.1	209.2	205.5
67.5°	344.9	275.2	194.5	183.5	179.8	150.4	139.4	135.8	139.4	132.1	128.4
70°	205.5	187.1	150.4	154.1	135.8	110.1	99.1	95.4	88.1	77.1	69.7
72.5°	113.7	113.7	110.1	117.4	95.4	73.4	62.4	51.4	40.4	33.0	29.4
75°	69.7	73.4	77.1	80.7	62.4	47.7	40.4	25.7	14.7	7.3	7.3
77.5°	47.7	51.4	55.0	58.7	51.4	44.0	33.0	18.3	3.7	0.0	0.0
80°	36.7	40.4	47.7	51.4	55.0	58.7	44.0	18.3	3.7	0.0	0.0
82.5°	40.4	44.0	55.0	51.4	51.4	51.4	40.4	18.3	3.7	0.0	0.0
85°	7.3	11.0	18.3	18.3	25.7	33.0	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)