

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: P529663

Luminaire Tested: **GALN-SA4D-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529663
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-SA4D-750-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA 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: 17896 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

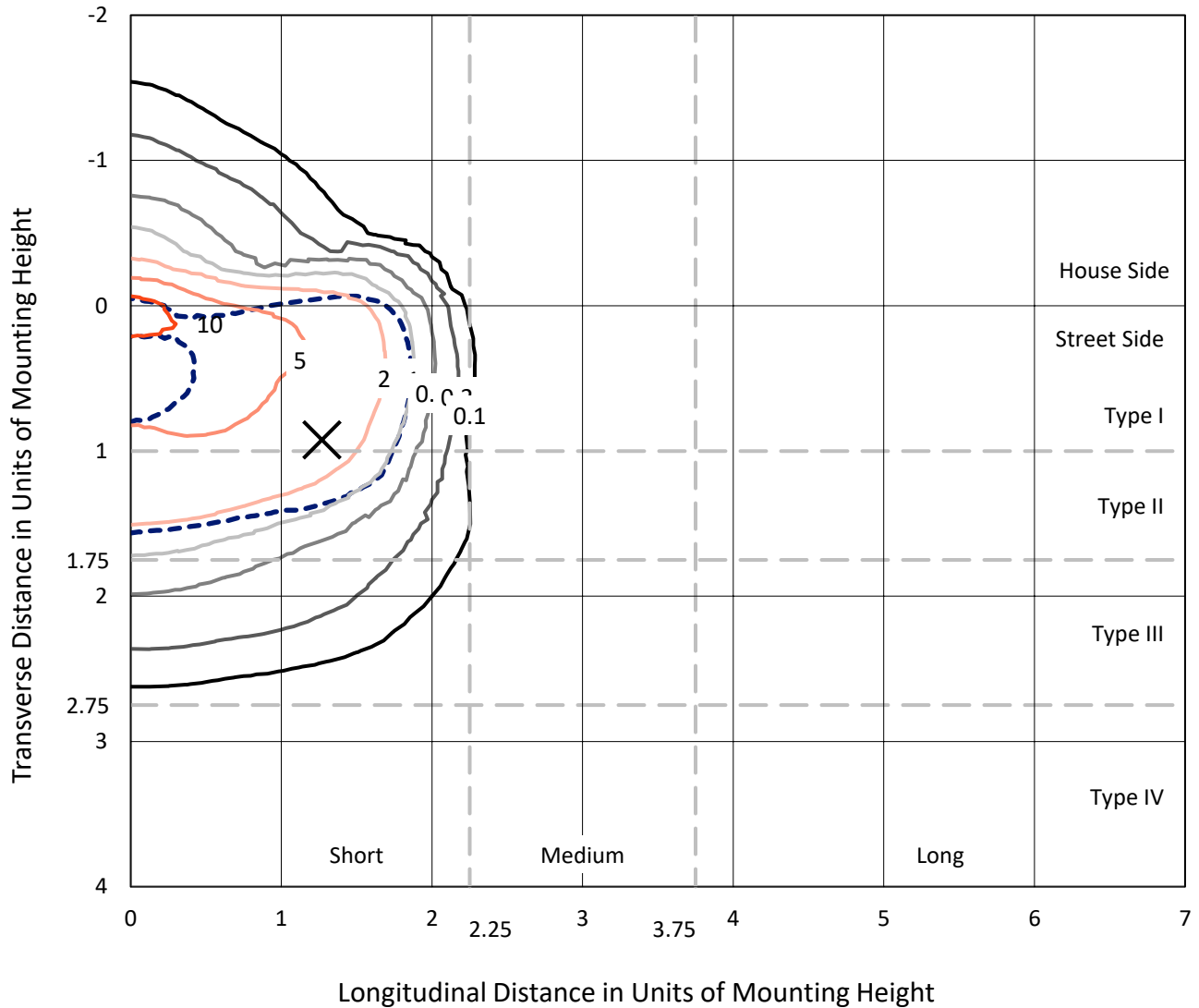
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

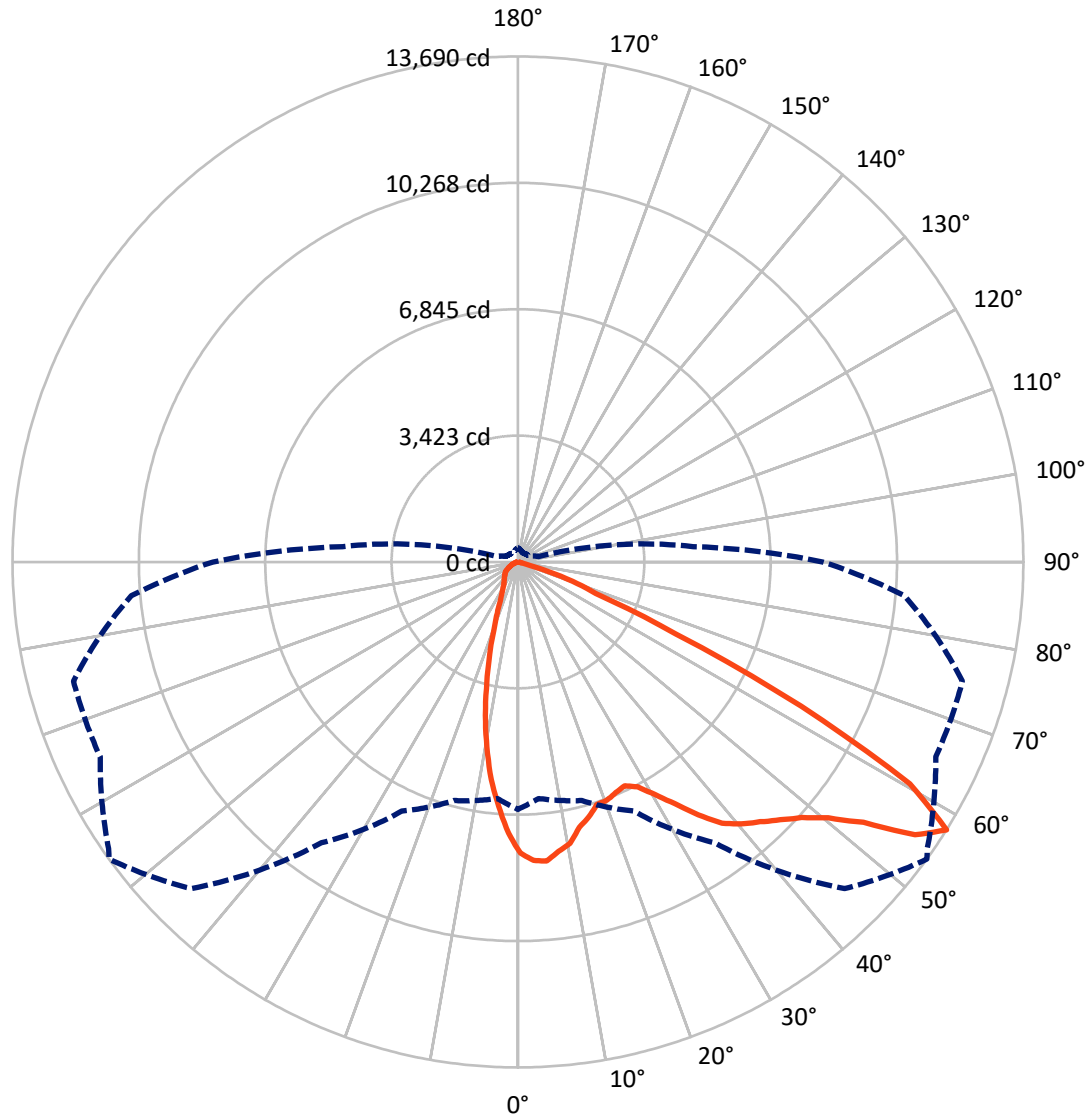
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	2529.0	0.0	2529.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15367.0	0.0	15367.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	17896.0	0.0	17896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.7	3.7
10°-20°	1408.4	7.9
20°-30°	1866.5	10.4
30°-40°	2712.5	15.2
40°-50°	4022.3	22.5
50°-60°	5029.7	28.1
60°-70°	1984.0	11.1
70°-80°	197.5	1.1
80°-90°	15.4	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°	17896.0	100.0
0°-180°	17896.0	100.0

Coefficient of Utilization



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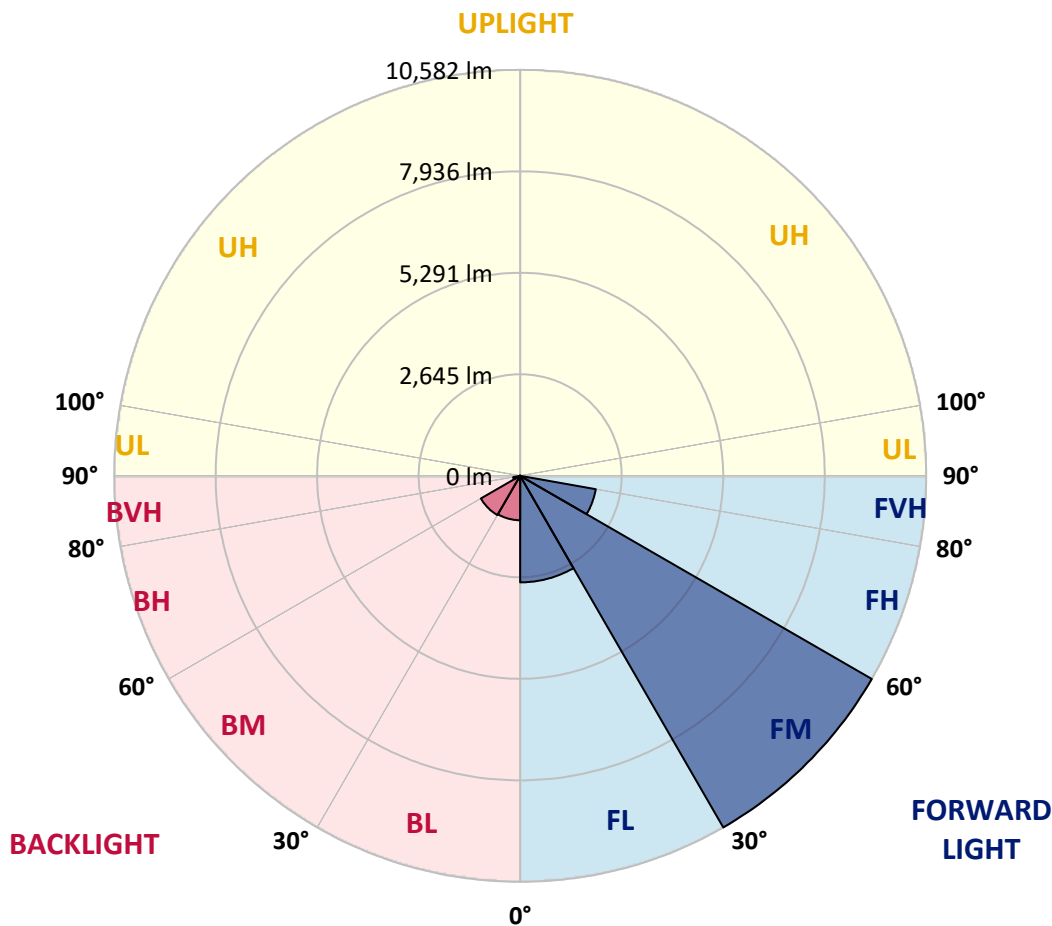
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2778.0	15.5			
FM (30°-60°)	10581.9	59.1			
FH (60°-80°)	2000.2	11.2			G2/5000
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	1156.6	6.5	B3/2500		
BM (30°-60°)	1182.6	6.6	B2/2500		
BH (60°-80°)	181.3	1.0	B1/500		G1/500
BVH (80°-90°)	8.4	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°	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4
2.5°	8342.7	8256.1	8262.8	8232.8	8192.9	8222.9	8093.1	8123.0	8119.7	7943.3	7826.9
5°	8133.0	8226.2	8129.7	8209.5	8133.0	8216.2	8136.3	8076.4	7979.9	7850.2	7633.8
7.5°	7776.9	7687.1	7713.7	7813.5	7830.2	8016.5	7916.7	7993.2	7953.3	7697.1	7400.9
10°	7061.5	7041.5	7174.6	7307.7	7470.8	7670.5	7747.0	7703.7	7673.8	7577.3	7181.3
12.5°	6512.4	6569.0	6565.6	6785.3	7061.5	7174.6	7374.3	7367.6	7534.0	7354.3	6975.0
15°	5989.9	6019.9	6159.7	6296.1	6602.2	6925.0	7171.3	7204.6	7404.2	7277.8	6815.2
17.5°	5670.5	5627.2	5737.0	5900.1	6212.9	6635.5	6908.4	6988.3	7261.1	7234.5	6632.2
20°	5354.3	5354.3	5444.2	5637.2	5923.4	6399.3	6885.1	6861.8	7261.1	7184.6	6435.9
22.5°	5247.9	5301.1	5324.4	5470.8	5810.2	6219.6	6785.3	6828.5	7317.7	7161.3	6349.3
25°	5394.3	5324.4	5331.0	5447.5	5767.0	6133.0	6712.1	6808.6	7420.9	7277.8	6279.5
27.5°	5417.6	5487.5	5507.4	5587.3	5800.3	6159.7	6895.1	7091.4	7677.1	7550.7	6299.4
30°	5620.6	5690.4	5687.1	5823.6	5970.0	6376.0	7304.4	7344.3	8206.2	7893.4	6422.5
32.5°	5866.8	5940.0	5963.3	6123.1	6239.5	6772.0	7803.6	7906.7	8715.4	8432.5	6745.3
35°	6173.0	6146.3	6252.8	6412.6	6662.1	7351.0	8412.5	8585.6	9264.4	9131.3	7078.1
37.5°	6555.7	6522.4	6625.5	6885.1	7224.5	8036.5	8974.9	9088.1	9663.8	9780.2	7693.7
40°	6825.2	6838.5	7151.3	7500.7	7860.1	8688.7	9331.0	9440.8	9943.3	10385.9	8159.6
42.5°	7274.5	7357.6	7733.7	8159.6	8535.7	9177.9	9620.5	9727.0	10073.1	10871.7	8788.6
45°	7926.7	7890.1	8306.1	8781.9	9197.9	9687.1	9963.3	9926.7	10149.6	11354.3	9184.6
47.5°	8765.3	8771.9	9048.1	9454.1	9886.7	10129.7	10346.0	10216.2	10309.4	11863.4	9713.7
50°	9337.7	9387.6	9610.5	10026.5	10242.8	10615.5	10891.7	10811.8	10781.9	12169.6	10046.5
52.5°	9484.1	9633.8	9753.6	10272.8	10778.6	11367.6	11720.3	11890.0	11357.6	12272.7	10469.1
55°	8379.3	8512.4	8935.0	9647.1	10981.6	12558.9	13044.8	13048.1	12109.7	12732.0	10765.3
57.5°	6698.8	6429.2	6688.8	7444.2	9284.4	12509.0	13690.3	13533.9	12485.7	12462.4	10509.0
60°	4632.2	4565.7	4582.3	4881.8	6425.9	9950.0	12199.5	12402.5	11497.4	10801.9	8319.4
62.5°	3670.5	3613.9	3540.7	3507.4	3990.0	6199.6	8605.5	8891.7	8039.8	7004.9	4931.7
65°	2875.2	2841.9	2851.9	2985.0	2981.7	3517.4	4705.4	4589.0	3673.8	2715.4	1550.7
67.5°	1940.1	1990.0	2029.9	2432.6	2638.9	2449.2	2272.9	2206.3	1194.7	502.5	342.8
70°	1091.5	1098.2	1141.4	1520.8	2003.3	1900.1	1567.4	1567.4	595.7	183.0	196.3
72.5°	595.7	575.7	535.8	655.6	891.8	905.1	698.8	609.0	176.4	119.8	109.8
75°	289.5	286.2	246.3	203.0	193.0	159.7	123.1	113.1	79.9	76.5	66.6
77.5°	59.9	56.6	29.9	29.9	33.3	36.6	46.6	46.6	56.6	56.6	46.6
80°	0.0	0.0	3.3	13.3	23.3	33.3	39.9	39.9	46.6	46.6	36.6
82.5°	0.0	0.0	3.3	10.0	20.0	29.9	36.6	39.9	46.6	49.9	39.9
85°	0.0	0.0	0.0	6.7	16.6	23.3	20.0	20.0	16.6	13.3	6.7
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°	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4	7883.4
2.5°	7767.0	7760.3	7607.2	7520.7	7364.3	7227.9	7118.0	7038.2	7038.2	6988.3	6941.7
5°	7547.3	7490.8	7164.6	6955.0	6658.8	6439.2	6289.4	6173.0	5989.9	6039.9	5843.5
7.5°	7274.5	7131.4	6698.8	6379.3	5970.0	5657.2	5337.7	5054.8	4782.0	4658.8	4725.4
10°	6981.6	6732.0	6149.7	5643.9	5134.7	4562.3	4189.6	3737.1	3457.5	3440.9	3367.7
12.5°	6672.1	6389.3	5680.5	4981.6	4312.8	3623.9	3054.9	2632.2	2442.6	2232.9	2272.9
15°	6439.2	6019.9	5158.0	4316.1	3427.6	2732.1	2159.7	1833.6	1653.9	1604.0	1587.3
17.5°	6186.3	5737.0	4625.6	3607.3	2688.8	1966.7	1554.1	1397.7	1327.8	1327.8	1317.8
20°	5923.4	5417.6	4096.5	2948.4	2016.6	1467.5	1244.6	1194.7	1191.3	1188.0	1188.0
22.5°	5750.3	5051.5	3617.3	2342.7	1520.8	1174.7	1081.5	1061.6	1074.9	1114.8	1114.8
25°	5567.3	4698.8	3088.1	1807.0	1178.0	1008.3	955.1	968.4	1001.7	1038.3	1024.9
27.5°	5381.0	4469.2	2589.0	1417.6	965.0	881.9	861.9	891.8	928.4	961.7	951.7
30°	5337.7	4222.9	2116.4	1074.9	828.6	768.7	782.0	808.6	845.2	858.6	871.9
32.5°	5404.3	4029.9	1733.8	881.9	722.1	705.5	705.5	718.8	742.1	772.0	762.1
35°	5593.9	3920.1	1371.0	765.4	662.2	645.6	642.3	655.6	668.9	678.9	668.9
37.5°	5883.5	3833.6	1121.5	678.9	622.3	595.7	589.0	585.7	599.0	602.3	609.0
40°	6252.8	3880.2	951.7	625.6	582.4	552.4	532.4	532.4	532.4	542.4	545.8
42.5°	6652.2	3943.4	822.0	595.7	545.8	509.1	489.2	482.5	489.2	502.5	499.2
45°	7071.5	4066.5	738.8	549.1	512.5	465.9	439.3	432.6	449.2	475.9	472.5
47.5°	7464.1	4242.9	675.5	519.1	479.2	435.9	402.7	396.0	426.0	462.6	465.9
50°	7856.8	4549.0	652.2	495.8	455.9	406.0	376.0	369.4	402.7	449.2	459.2
52.5°	8309.4	4878.5	635.6	465.9	429.3	382.7	349.4	342.8	379.4	439.3	442.6
55°	8605.5	5158.0	622.3	412.6	379.4	346.1	319.5	316.1	356.1	409.3	422.6
57.5°	8259.5	4768.7	575.7	359.4	322.8	306.2	282.9	282.9	316.1	366.1	376.0
60°	6262.8	3138.1	409.3	289.5	272.9	262.9	252.9	252.9	279.5	316.1	319.5
62.5°	3667.2	1690.5	262.9	232.9	232.9	223.0	206.3	206.3	232.9	252.9	256.2
65°	1088.2	542.4	213.0	199.7	196.3	179.7	163.1	159.7	179.7	189.7	186.4
67.5°	312.8	249.6	176.4	166.4	163.1	136.4	126.5	123.1	126.5	119.8	116.5
70°	186.4	169.7	136.4	139.8	123.1	99.8	89.8	86.5	79.9	69.9	63.2
72.5°	103.2	103.2	99.8	106.5	86.5	66.6	56.6	46.6	36.6	29.9	26.6
75°	63.2	66.6	69.9	73.2	56.6	43.3	36.6	23.3	13.3	6.7	6.7
77.5°	43.3	46.6	49.9	53.2	46.6	39.9	29.9	16.6	3.3	0.0	0.0
80°	33.3	36.6	43.3	46.6	49.9	53.2	39.9	16.6	3.3	0.0	0.0
82.5°	36.6	39.9	49.9	46.6	46.6	46.6	36.6	16.6	3.3	0.0	0.0
85°	6.7	10.0	16.6	16.6	23.3	29.9	23.3	6.7	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)