

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: P531715

Luminaire Tested: **GALN-SA7A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17319 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

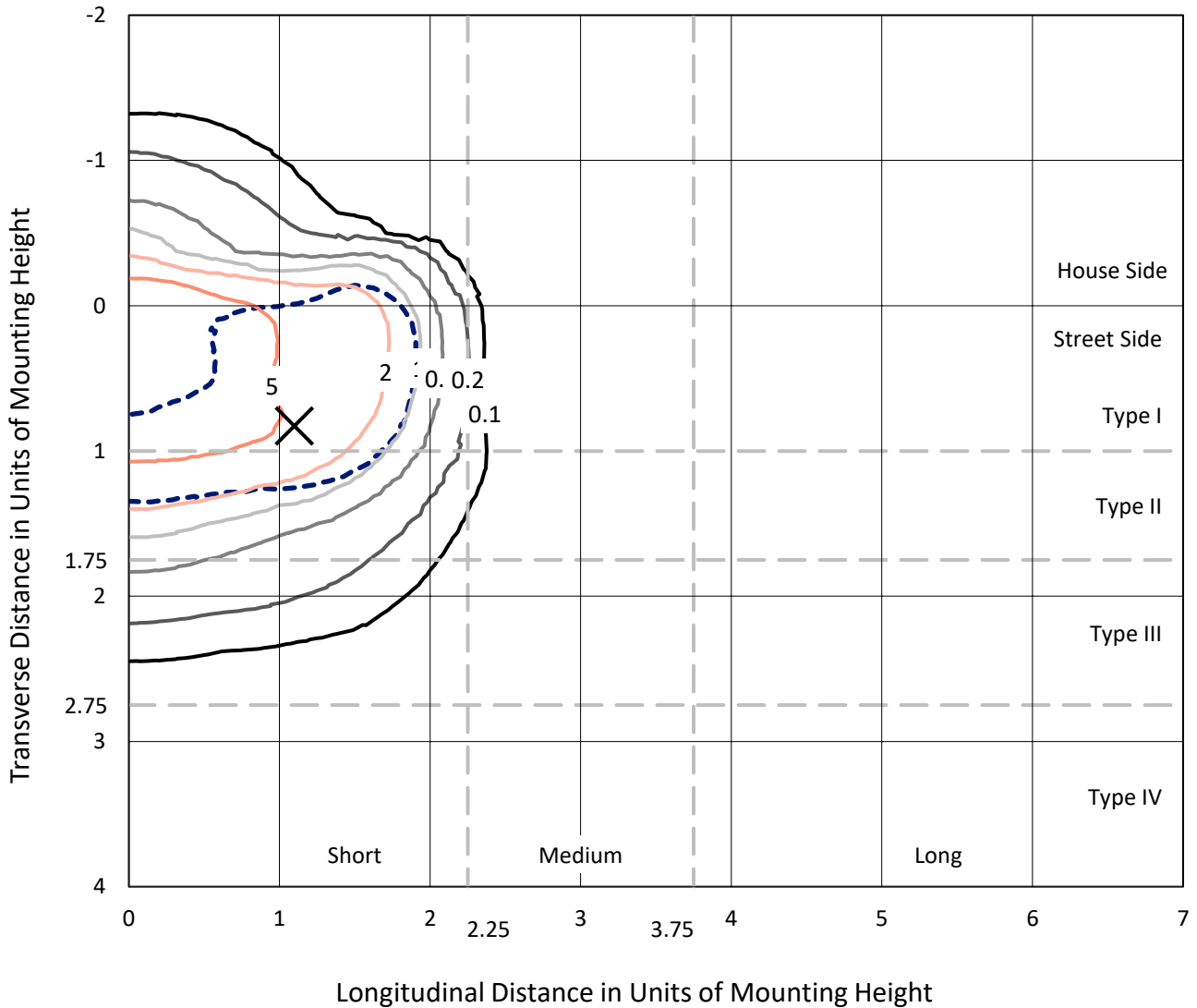
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

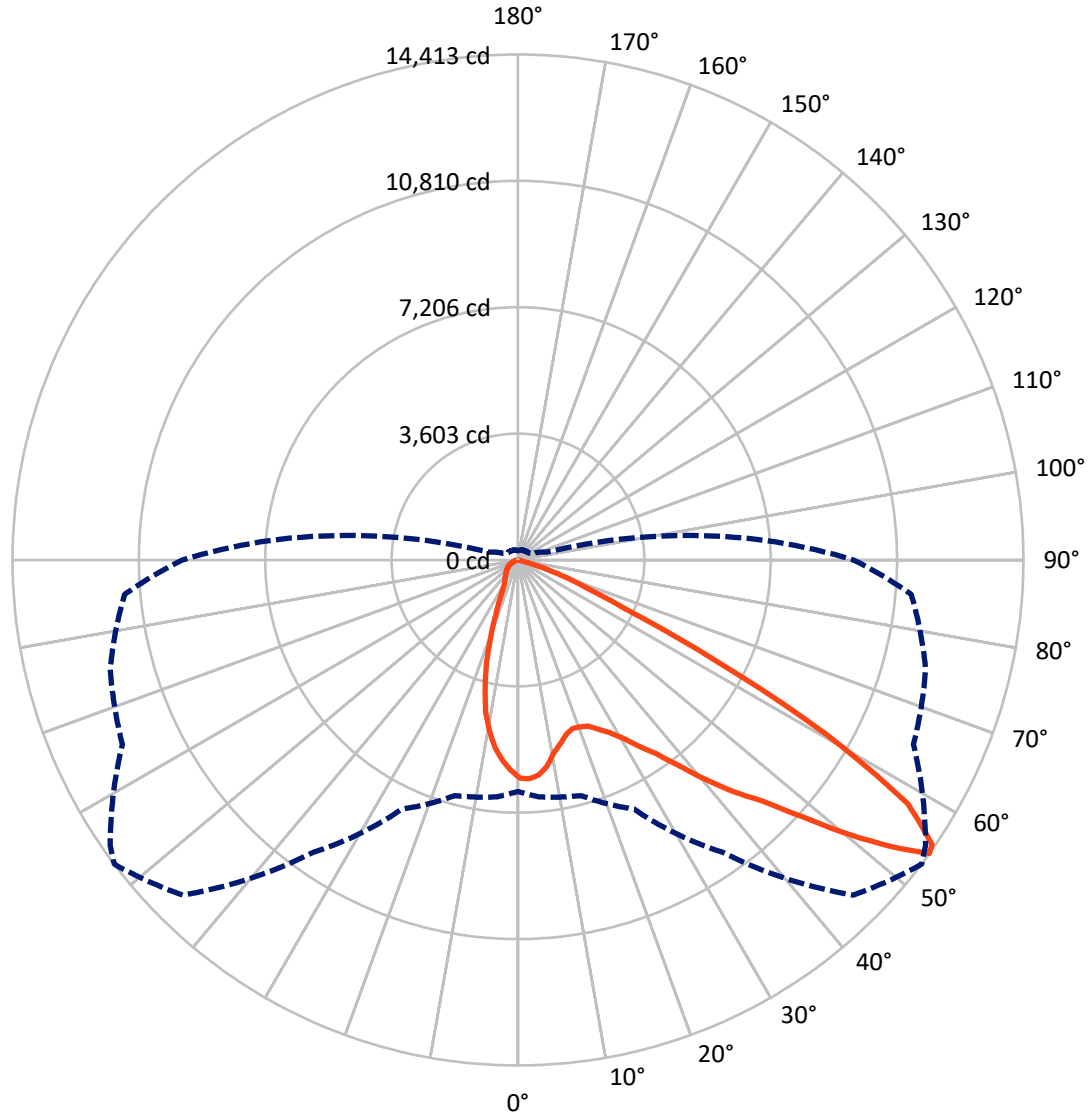
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2865.5	0.0	2865.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14453.5	0.0	14453.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	17319.0	0.0	17319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.7	3.1
10°-20°	1223.7	7.1
20°-30°	1739.1	10.0
30°-40°	2683.8	15.5
40°-50°	4208.0	24.3
50°-60°	4888.2	28.2
60°-70°	1847.1	10.7
70°-80°	175.6	1.0
80°-90°	19.8	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°	17319.0	100.0
0°-180°	17319.0	100.0

Coefficient of Utilization



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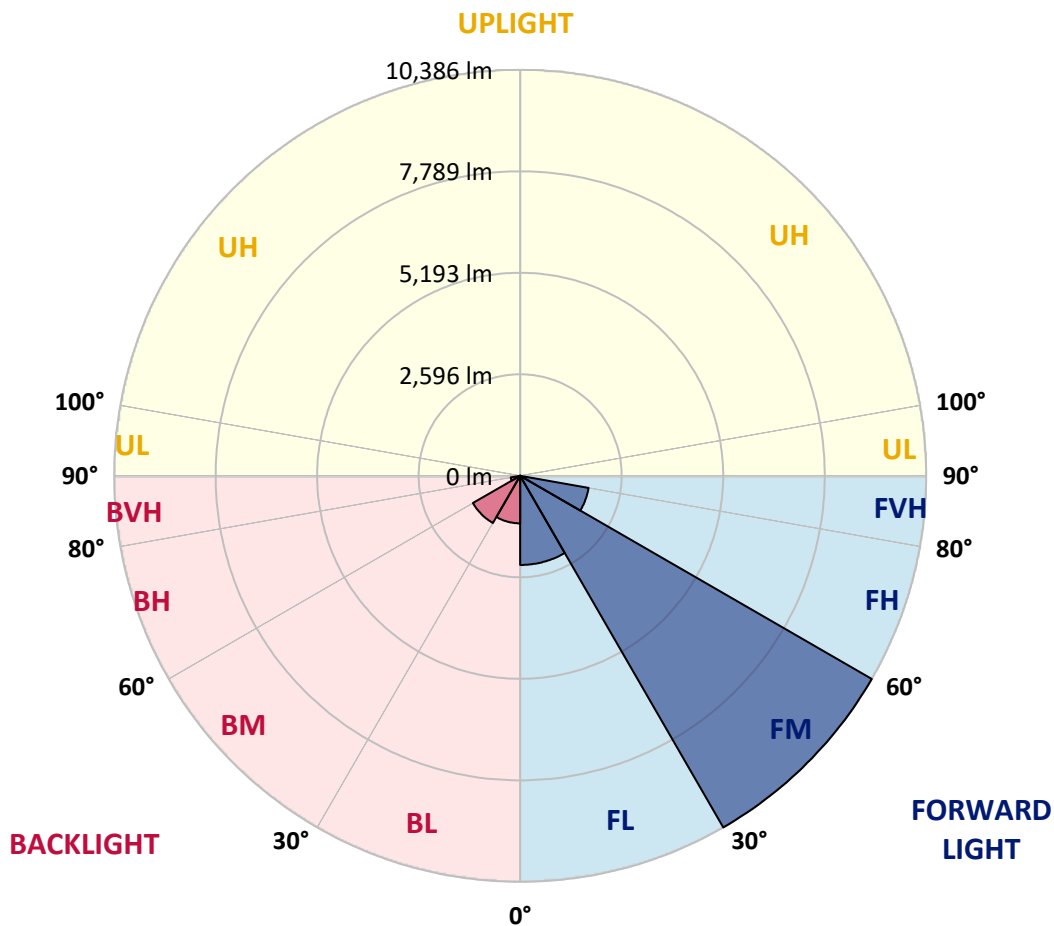
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.5	13.2			
FM (30°-60°)	10385.7	60.0			
FH (60°-80°)	1777.2	10.3			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	1216.0	7.0	B3/2500		
BM (30°-60°)	1394.4	8.1	B2/2500		
BH (60°-80°)	245.5	1.4	B1/500		G1/500
BVH (80°-90°)	9.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7
2.5°	6188.4	6133.6	6188.4	6194.9	6233.6	6269.1	6246.5	6298.1	6269.1	6236.8	6227.1
5°	5688.3	5762.5	5765.8	5881.9	5856.1	6069.0	6162.6	6136.8	6294.9	6285.2	6262.6
7.5°	5239.8	5210.8	5249.5	5385.0	5556.0	5801.2	5936.8	5933.5	6159.4	6320.7	6304.6
10°	4823.6	4820.4	4901.1	5007.5	5152.7	5410.8	5598.0	5691.5	6043.2	6288.4	6323.9
12.5°	4542.9	4530.0	4617.1	4704.2	4933.3	5133.4	5372.1	5417.3	5820.6	6175.5	6233.6
15°	4359.0	4388.0	4394.5	4562.3	4707.5	4972.0	5159.2	5252.7	5717.4	6085.2	6307.8
17.5°	4326.7	4365.5	4368.7	4507.4	4662.3	4884.9	5049.5	5175.3	5630.2	6130.4	6311.0
20°	4391.3	4368.7	4388.0	4475.2	4626.8	4839.8	5078.5	5120.5	5601.2	6152.9	6346.5
22.5°	4575.2	4568.7	4520.3	4591.3	4697.8	4920.4	5146.3	5210.8	5685.1	6269.1	6375.6
25°	4778.4	4813.9	4768.8	4759.1	4833.3	5052.7	5352.8	5436.7	5965.8	6478.8	6465.9
27.5°	5159.2	5123.7	5123.7	5078.5	5059.2	5165.6	5575.4	5714.1	6278.8	6749.8	6569.2
30°	5523.8	5562.5	5533.4	5549.6	5420.5	5410.8	5891.6	6062.6	6833.7	7162.8	6788.6
32.5°	6101.3	6049.7	6098.1	6056.1	5885.1	5710.9	6320.7	6498.2	7504.8	7637.1	7117.7
35°	6582.1	6559.5	6766.0	6759.5	6482.0	6311.0	6775.7	7040.2	7972.7	8205.0	7504.8
37.5°	7266.1	7224.1	7459.7	7572.6	7324.2	7069.3	7427.4	7733.9	8408.3	8659.9	7901.7
40°	7969.5	8075.9	8392.1	8579.3	8314.7	7975.9	8224.3	8317.9	8698.6	8956.8	8172.7
42.5°	8860.0	9014.8	9337.5	9498.8	9476.2	9108.4	9034.2	9031.0	8908.4	8872.9	8372.8
45°	9715.0	9656.9	10153.8	10505.5	10789.4	10682.9	9815.0	9718.2	9240.7	8998.7	8424.4
47.5°	10089.3	10069.9	10408.7	11034.6	12002.6	12134.9	10950.7	10576.5	9802.1	9527.9	8705.1
50°	9605.3	9705.3	10040.9	10734.6	12218.8	13228.7	12344.6	11841.3	10457.1	10173.2	9369.8
52.5°	8024.3	8092.1	8411.5	9292.3	11483.1	13874.0	13680.4	13390.0	11660.6	11189.5	10528.1
54°	6598.2	6778.9	6953.1	7837.2	10173.2	13515.8	14412.8	14190.1	12444.6	12034.8	11257.3
55°	5746.4	5852.9	5978.7	6859.5	9266.5	12909.2	14328.9	14348.2	12970.5	12299.4	11747.7
57.5°	4197.7	4271.9	4142.8	4533.2	6362.7	10482.9	13106.0	13628.7	13680.4	12696.3	12047.8
60°	3207.1	3239.4	3094.2	3155.5	3955.7	7195.1	10137.7	10766.8	12341.4	11095.9	10205.4
62.5°	2487.6	2494.1	2490.9	2597.3	2726.4	4233.2	6340.1	6898.3	8508.3	7879.1	6930.5
65°	1832.7	1803.6	1855.2	2177.9	2326.3	2661.9	3339.4	3746.0	4623.6	3904.1	2790.9
67.5°	1187.4	1197.0	1248.7	1619.7	1994.0	2042.4	2055.3	2023.0	2026.2	1116.4	700.2
70°	713.1	729.2	713.1	916.3	1426.1	1464.8	1339.0	1306.7	1019.6	264.6	261.3
72.5°	422.7	400.1	358.1	393.6	593.7	709.8	638.8	635.6	400.1	154.9	154.9
75°	177.5	161.3	132.3	119.4	158.1	151.6	151.6	135.5	106.5	103.2	96.8
77.5°	35.5	35.5	25.8	29.0	38.7	45.2	54.9	54.9	64.5	64.5	61.3
80°	0.0	3.2	9.7	19.4	29.0	41.9	48.4	48.4	54.9	54.9	45.2
82.5°	0.0	3.2	9.7	19.4	25.8	38.7	48.4	48.4	54.9	58.1	48.4
85°	0.0	3.2	9.7	16.1	25.8	32.3	32.3	29.0	22.6	19.4	12.9
87.5°	0.0	0.0	3.2	6.5	3.2	6.5	6.5	6.5	6.5	6.5	6.5
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°	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7	6220.7
2.5°	6249.7	6246.5	6169.1	6043.2	6014.2	5907.7	5894.8	5830.3	5865.8	5746.4	5733.5
5°	6198.1	6159.4	6065.8	5985.2	5749.6	5581.8	5449.6	5288.2	5194.7	5210.8	5149.5
7.5°	6272.3	6172.3	6007.7	5727.0	5439.9	5146.3	4988.2	4659.1	4539.7	4362.2	4336.4
10°	6194.9	6120.7	5865.8	5401.2	5004.3	4581.6	4210.6	3846.0	3568.5	3449.1	3423.3
12.5°	6188.4	6059.4	5633.5	5117.2	4542.9	3936.3	3397.5	2942.6	2668.3	2513.4	2478.0
15°	6088.4	5933.5	5372.1	4678.4	3884.7	3129.7	2542.5	2103.7	1894.0	1803.6	1829.4
17.5°	6098.1	5865.8	5110.8	4213.8	3236.2	2297.3	1735.9	1510.0	1455.2	1477.7	1477.7
20°	6088.4	5714.1	4794.6	3678.2	2478.0	1593.9	1274.5	1193.8	1229.3	1300.3	1284.1
22.5°	6036.8	5643.1	4504.2	3113.6	1823.0	1180.9	1022.8	1026.0	1080.9	1168.0	1187.4
25°	6075.5	5485.1	4136.4	2542.5	1329.3	942.1	887.3	909.9	968.0	1032.5	1045.4
27.5°	6046.5	5372.1	3752.4	1974.6	971.2	809.9	806.6	832.4	858.2	906.6	906.6
30°	6078.7	5268.9	3374.9	1468.1	800.2	742.1	729.2	748.5	774.4	784.0	780.8
32.5°	6198.1	5191.4	2939.3	1097.0	706.6	677.6	677.6	677.6	674.3	687.2	690.5
35°	6459.5	5204.3	2555.4	848.6	645.3	622.7	613.0	600.1	593.7	600.1	603.4
37.5°	6743.4	5197.9	2158.5	722.7	600.1	580.8	558.2	538.8	535.6	542.1	532.4
40°	6869.2	5259.2	1790.7	648.5	558.2	535.6	500.1	484.0	487.2	493.7	487.2
42.5°	7040.2	5278.6	1551.9	590.4	519.5	484.0	461.4	442.0	438.8	448.5	445.3
45°	7037.0	5168.9	1300.3	558.2	484.0	445.3	416.2	400.1	400.1	406.5	409.8
47.5°	7243.5	5152.7	1116.4	529.1	458.2	419.4	384.0	371.0	367.8	367.8	361.4
50°	7724.2	5378.6	974.4	496.9	425.9	390.4	361.4	345.2	332.3	325.9	322.7
52.5°	8663.2	6082.0	864.7	458.2	390.4	361.4	335.6	322.7	306.5	290.4	287.2
54°	9573.0	6807.9	858.2	425.9	361.4	342.0	319.4	313.0	293.6	271.0	264.6
55°	9982.8	7230.6	880.8	400.1	342.0	329.1	309.7	303.3	283.9	258.1	254.9
57.5°	10321.6	7395.1	867.9	332.3	309.7	306.5	290.4	280.7	258.1	222.6	216.2
60°	8308.2	5591.5	622.7	293.6	283.9	277.5	264.6	258.1	229.1	190.4	187.1
62.5°	5249.5	3216.8	396.9	258.1	248.4	238.8	222.6	216.2	190.4	151.6	142.0
65°	2236.0	1332.5	267.8	229.1	212.9	196.8	183.9	174.2	151.6	112.9	109.7
67.5°	580.8	474.3	222.6	200.0	177.5	154.9	145.2	129.1	103.2	77.4	74.2
70°	261.3	238.8	187.1	167.8	142.0	119.4	106.5	90.3	67.8	51.6	48.4
72.5°	154.9	151.6	142.0	125.8	106.5	90.3	77.4	61.3	45.2	29.0	29.0
75°	96.8	93.6	96.8	87.1	74.2	67.8	58.1	41.9	25.8	12.9	12.9
77.5°	58.1	58.1	58.1	54.9	51.6	51.6	41.9	25.8	12.9	3.2	3.2
80°	45.2	45.2	48.4	45.2	45.2	45.2	35.5	19.4	6.5	0.0	0.0
82.5°	45.2	48.4	54.9	51.6	45.2	38.7	32.3	19.4	6.5	0.0	0.0
85°	12.9	9.7	16.1	22.6	32.3	29.0	22.6	16.1	6.5	0.0	0.0
87.5°	6.5	6.5	6.5	6.5	3.2	3.2	3.2	3.2	3.2	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)