

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: P533589

Luminaire Tested: **GALN-SA9A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533589  
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-SA9A-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA 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: 22585 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

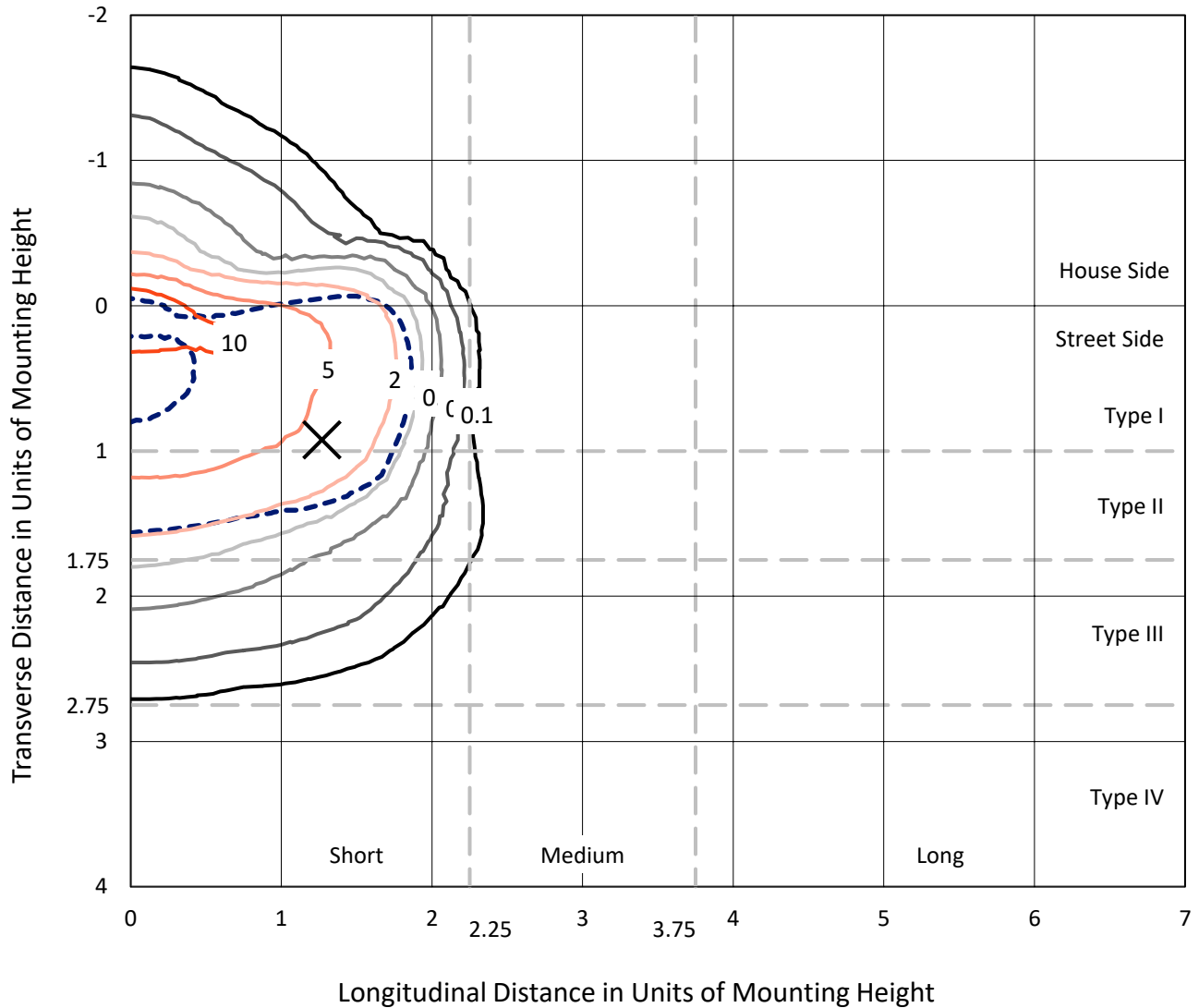
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

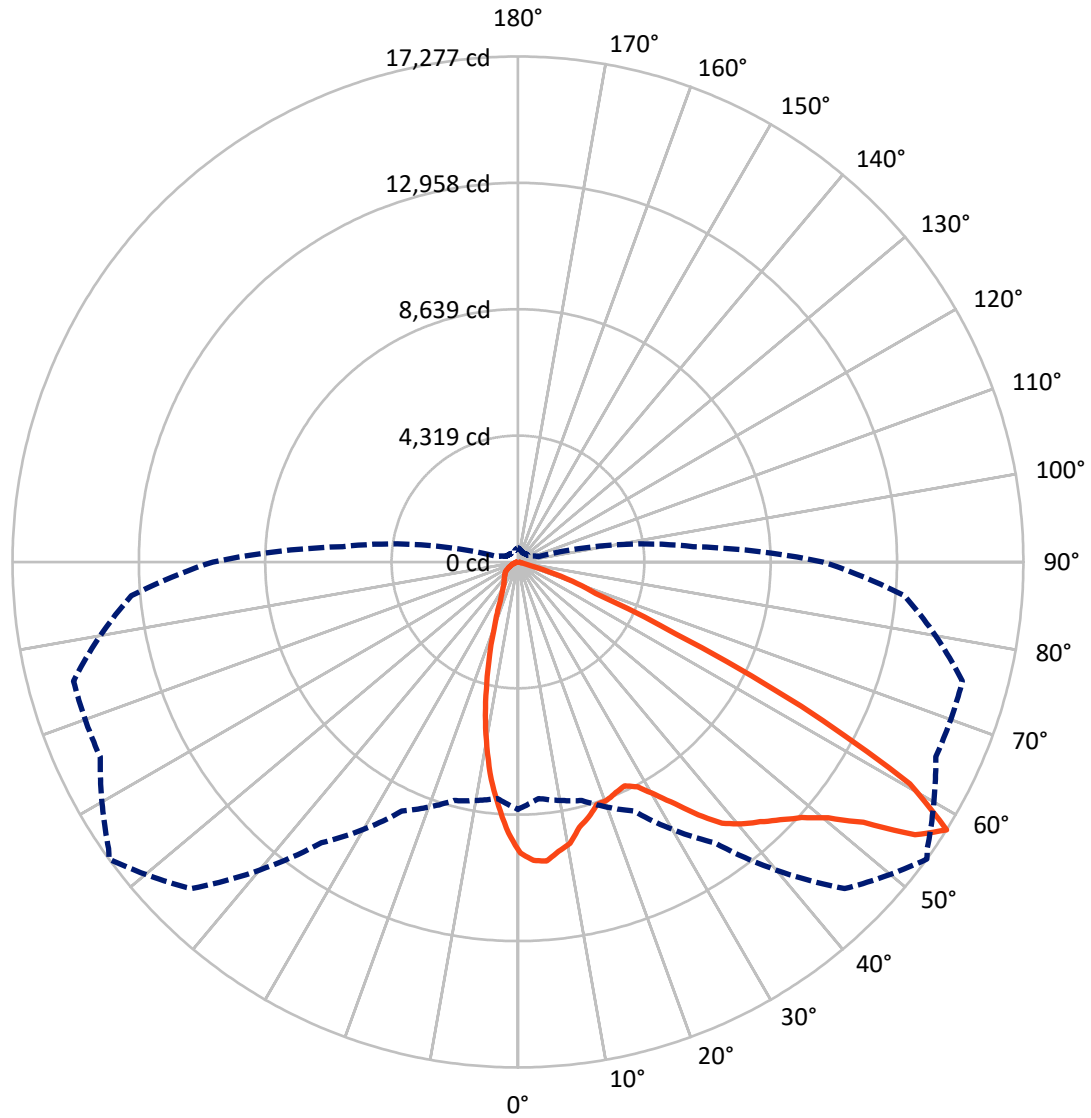
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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
<b>House Side</b>	Lumens	3191.7	0.0	3191.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19393.4	0.0	19393.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	22585.0	0.0	22585.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	832.6	3.7
10°-20°	1777.5	7.9
20°-30°	2355.5	10.4
30°-40°	3423.2	15.2
40°-50°	5076.2	22.5
50°-60°	6347.6	28.1
60°-70°	2503.8	11.1
70°-80°	249.3	1.1
80°-90°	19.4	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°	22585.0	100.0
0°-180°	22585.0	100.0

**Coefficient of Utilization**

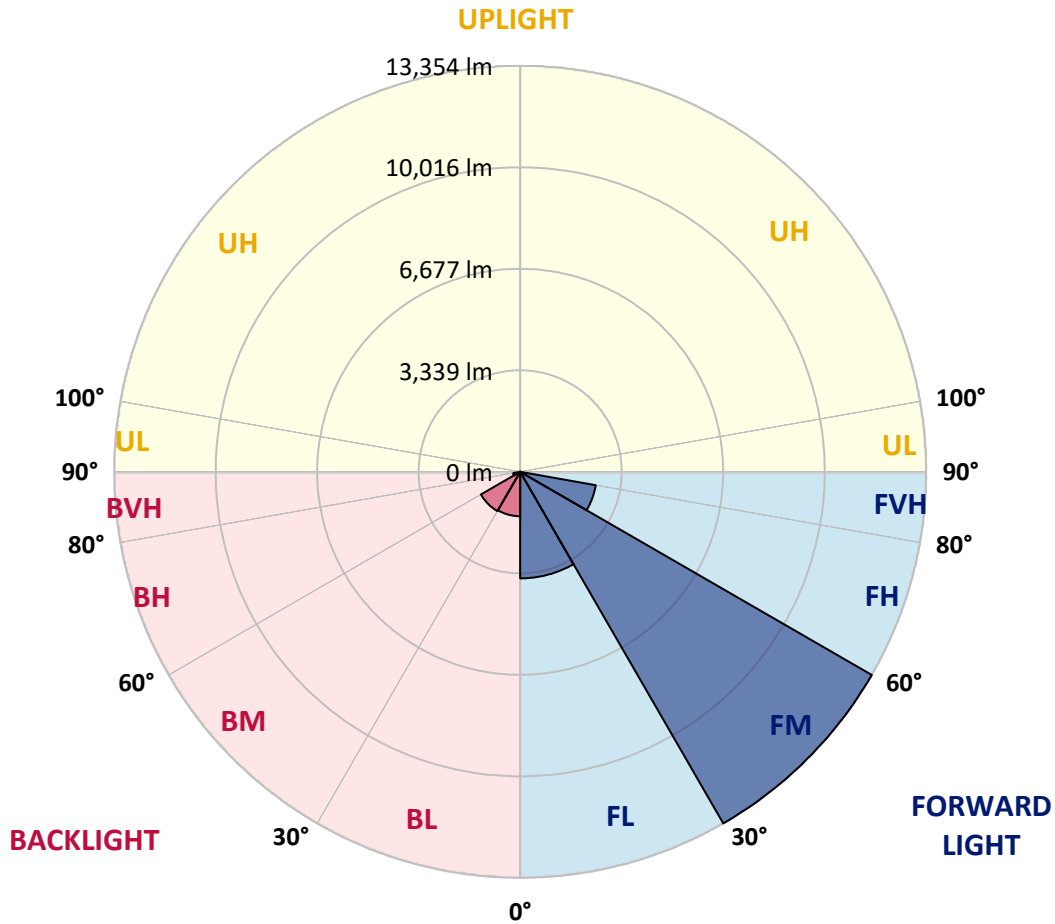


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3505.9	15.5			
FM (30°-60°)	13354.5	59.1			
FH (60°-80°)	2524.2	11.2			G2/5000
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1459.7	6.5	B3/2500		
BM (30°-60°)	1492.5	6.6	B2/2500		
BH (60°-80°)	228.9	1.0	B1/500		G1/500
BVH (80°-90°)	10.6	0.0			G1/100
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°	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0
2.5°	10528.5	10419.4	10427.8	10390.0	10339.6	10377.4	10213.6	10251.4	10247.2	10024.6	9877.6
5°	10264.0	10381.6	10259.8	10360.6	10264.0	10369.0	10268.2	10192.6	10070.8	9907.0	9634.0
7.5°	9814.6	9701.2	9734.8	9860.8	9881.8	10117.0	9991.0	10087.6	10037.2	9713.8	9340.0
10°	8911.7	8886.5	9054.5	9222.5	9428.2	9680.2	9776.8	9722.2	9684.4	9562.6	9062.9
12.5°	8218.7	8290.1	8285.9	8563.1	8911.7	9054.5	9306.4	9298.0	9508.0	9281.3	8802.5
15°	7559.4	7597.2	7773.6	7945.8	8332.1	8739.5	9050.3	9092.3	9344.2	9184.7	8600.9
17.5°	7156.2	7101.6	7240.2	7446.0	7840.8	8374.1	8718.5	8819.3	9163.7	9130.1	8369.9
20°	6757.3	6757.3	6870.6	7114.2	7475.4	8075.9	8689.1	8659.7	9163.7	9067.1	8122.1
22.5°	6622.9	6690.1	6719.5	6904.2	7332.6	7849.2	8563.1	8617.7	9235.1	9037.7	8013.0
25°	6807.7	6719.5	6727.9	6874.8	7278.0	7740.0	8470.7	8592.5	9365.2	9184.7	7924.8
27.5°	6837.0	6925.2	6950.4	7051.2	7320.0	7773.6	8701.7	8949.5	9688.6	9529.0	7950.0
30°	7093.2	7181.4	7177.2	7349.4	7534.2	8046.6	9218.3	9268.7	10356.4	9961.6	8105.3
32.5°	7404.0	7496.4	7525.8	7727.4	7874.4	8546.3	9848.2	9978.4	10998.9	10641.9	8512.7
35°	7790.4	7756.8	7891.2	8092.7	8407.7	9277.1	10616.7	10835.1	11691.9	11523.9	8932.7
37.5°	8273.3	8231.3	8361.5	8689.1	9117.5	10142.2	11326.5	11469.3	12195.8	12342.8	9709.6
40°	8613.5	8630.3	9025.1	9466.0	9919.6	10965.3	11775.8	11914.4	12548.6	13107.1	10297.6
42.5°	9180.5	9285.5	9760.0	10297.6	10772.1	11582.7	12141.2	12275.6	12712.4	13720.3	11091.3
45°	10003.6	9957.4	10482.4	11082.9	11607.9	12225.2	12573.8	12527.6	12809.0	14329.2	11591.1
47.5°	11061.9	11070.3	11418.9	11931.2	12477.2	12783.8	13056.7	12893.0	13010.5	14971.8	12258.8
50°	11784.2	11847.2	12128.6	12653.6	12926.6	13396.9	13745.5	13644.7	13606.9	15358.2	12678.8
52.5°	11969.0	12158.0	12309.2	12964.4	13602.7	14346.0	14791.2	15005.4	14333.4	15488.3	13212.1
55°	10574.7	10742.7	11276.1	12174.8	13858.9	15849.5	16462.7	16466.9	15282.6	16067.9	13585.9
57.5°	8453.9	8113.7	8441.3	9394.6	11717.1	15786.5	17277.4	17080.0	15757.1	15727.7	13262.5
60°	5845.9	5761.9	5782.9	6160.9	8109.5	12557.0	15396.0	15652.1	14509.8	13632.1	10499.2
62.5°	4632.2	4560.8	4468.4	4426.4	5035.4	7824.0	10860.3	11221.5	10146.4	8840.3	6223.9
65°	3628.5	3586.5	3599.1	3767.1	3762.9	4439.0	5938.3	5791.3	4636.4	3426.9	1957.0
67.5°	2448.4	2511.4	2561.8	3070.0	3330.3	3091.0	2868.4	2784.4	1507.7	634.1	432.6
70°	1377.5	1385.9	1440.5	1919.2	2528.2	2398.0	1978.0	1978.0	751.7	231.0	247.8
72.5°	751.7	726.5	676.1	827.3	1125.5	1142.3	881.9	768.5	222.6	151.2	138.6
75°	365.4	361.2	310.8	256.2	243.6	201.6	155.4	142.8	100.8	96.6	84.0
77.5°	75.6	71.4	37.8	37.8	42.0	46.2	58.8	58.8	71.4	71.4	58.8
80°	0.0	0.0	4.2	16.8	29.4	42.0	50.4	50.4	58.8	58.8	46.2
82.5°	0.0	0.0	4.2	12.6	25.2	37.8	46.2	50.4	58.8	63.0	50.4
85°	0.0	0.0	0.0	8.4	21.0	29.4	25.2	25.2	21.0	16.8	8.4
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°	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0	9949.0
2.5°	9802.0	9793.6	9600.4	9491.2	9293.8	9121.7	8983.1	8882.3	8882.3	8819.3	8760.5
5°	9524.8	9453.4	9041.9	8777.3	8403.5	8126.3	7937.4	7790.4	7559.4	7622.4	7374.6
7.5°	9180.5	8999.9	8453.9	8050.7	7534.2	7139.4	6736.3	6379.3	6034.9	5879.5	5963.5
10°	8810.9	8495.9	7761.0	7122.6	6480.1	5757.7	5287.4	4716.2	4363.4	4342.4	4250.1
12.5°	8420.3	8063.3	7168.8	6286.9	5442.8	4573.4	3855.3	3321.9	3082.6	2818.0	2868.4
15°	8126.3	7597.2	6509.5	5447.0	4325.7	3447.9	2725.6	2314.0	2087.2	2024.2	2003.2
17.5°	7807.2	7240.2	5837.5	4552.4	3393.3	2482.0	1961.2	1763.9	1675.7	1675.7	1663.1
20°	7475.4	6837.0	5169.8	3720.9	2545.0	1852.1	1570.7	1507.7	1503.5	1499.3	1499.3
22.5°	7257.0	6375.1	4565.0	2956.6	1919.2	1482.5	1364.9	1339.7	1356.5	1406.9	1406.9
25°	7026.0	5929.9	3897.3	2280.4	1486.7	1272.5	1205.3	1222.1	1264.1	1310.3	1293.5
27.5°	6790.9	5640.1	3267.3	1789.1	1217.9	1112.9	1087.7	1125.5	1171.7	1213.7	1201.1
30°	6736.3	5329.4	2671.0	1356.5	1045.7	970.1	986.9	1020.5	1066.7	1083.5	1100.3
32.5°	6820.2	5085.8	2188.0	1112.9	911.3	890.3	890.3	907.1	936.5	974.3	961.7
35°	7059.6	4947.2	1730.3	965.9	835.7	814.7	810.5	827.3	844.1	856.7	844.1
37.5°	7425.0	4838.0	1415.3	856.7	785.3	751.7	743.3	739.1	755.9	760.1	768.5
40°	7891.2	4896.8	1201.1	789.5	734.9	697.1	671.9	671.9	671.9	684.5	688.7
42.5°	8395.1	4976.6	1037.3	751.7	688.7	642.5	617.4	609.0	617.4	634.1	629.9
45°	8924.3	5132.0	932.3	692.9	646.7	588.0	554.4	546.0	567.0	600.6	596.4
47.5°	9419.8	5354.6	852.5	655.1	604.8	550.2	508.2	499.8	537.6	583.8	588.0
50°	9915.4	5740.9	823.1	625.7	575.4	512.4	474.6	466.2	508.2	567.0	579.6
52.5°	10486.6	6156.7	802.1	588.0	541.8	483.0	441.0	432.6	478.8	554.4	558.6
55°	10860.3	6509.5	785.3	520.8	478.8	436.8	403.2	399.0	449.4	516.6	533.4
57.5°	10423.6	6018.1	726.5	453.6	407.4	386.4	357.0	357.0	399.0	462.0	474.6
60°	7903.8	3960.3	516.6	365.4	344.4	331.8	319.2	319.2	352.8	399.0	403.2
62.5°	4628.0	2133.4	331.8	294.0	294.0	281.4	260.4	260.4	294.0	319.2	323.4
65°	1373.3	684.5	268.8	252.0	247.8	226.8	205.8	201.6	226.8	239.4	235.2
67.5°	394.8	315.0	222.6	210.0	205.8	172.2	159.6	155.4	159.6	151.2	147.0
70°	235.2	214.2	172.2	176.4	155.4	126.0	113.4	109.2	100.8	88.2	79.8
72.5°	130.2	130.2	126.0	134.4	109.2	84.0	71.4	58.8	46.2	37.8	33.6
75°	79.8	84.0	88.2	92.4	71.4	54.6	46.2	29.4	16.8	8.4	8.4
77.5°	54.6	58.8	63.0	67.2	58.8	50.4	37.8	21.0	4.2	0.0	0.0
80°	42.0	46.2	54.6	58.8	63.0	67.2	50.4	21.0	4.2	0.0	0.0
82.5°	46.2	50.4	63.0	58.8	58.8	58.8	46.2	21.0	4.2	0.0	0.0
85°	8.4	12.6	21.0	21.0	29.4	37.8	29.4	8.4	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)