

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: P533601

Luminaire Tested: **GALN-SA9A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
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-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23488 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

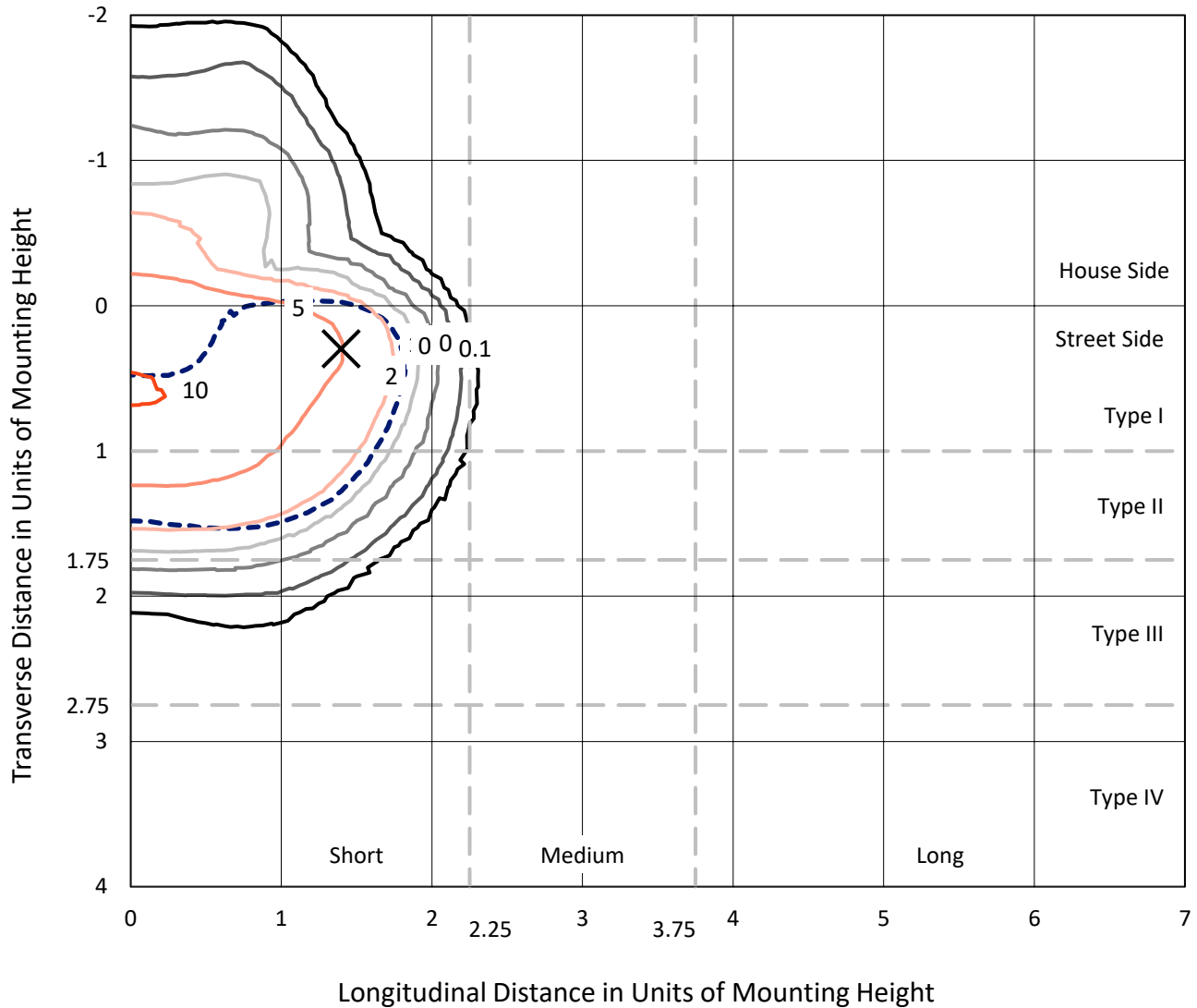
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

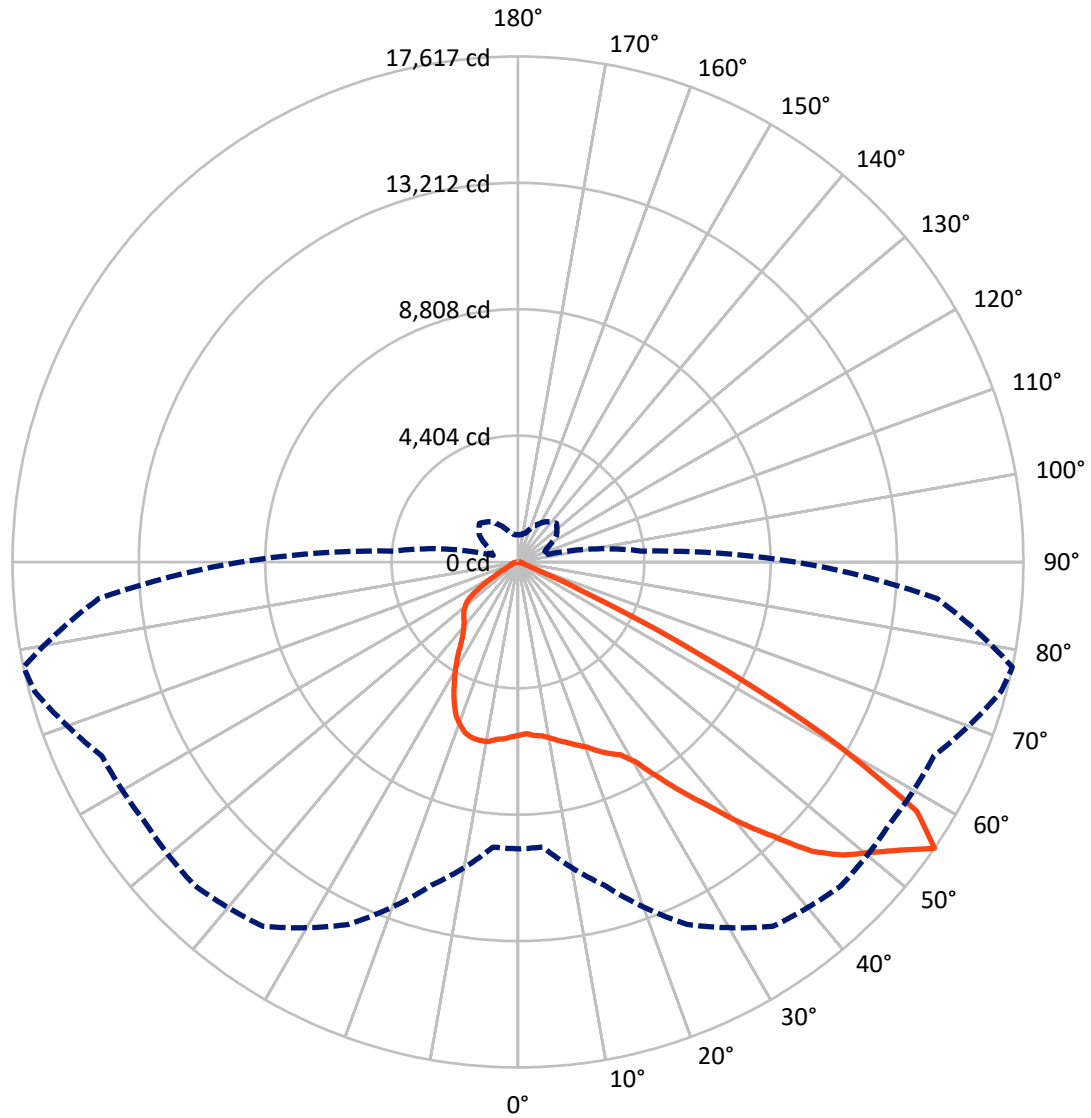
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4362.7	0.0	4362.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	19125.4	0.0	19125.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	23488.0	0.0	23488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.5	2.3
10°-20°	1425.1	6.1
20°-30°	2497.9	10.6
30°-40°	4118.7	17.5
40°-50°	5993.2	25.5
50°-60°	6790.9	28.9
60°-70°	1941.7	8.3
70°-80°	150.8	0.6
80°-90°	31.4	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°	23488.0	100.0
0°-180°	23488.0	100.0

**Coefficient of Utilization**



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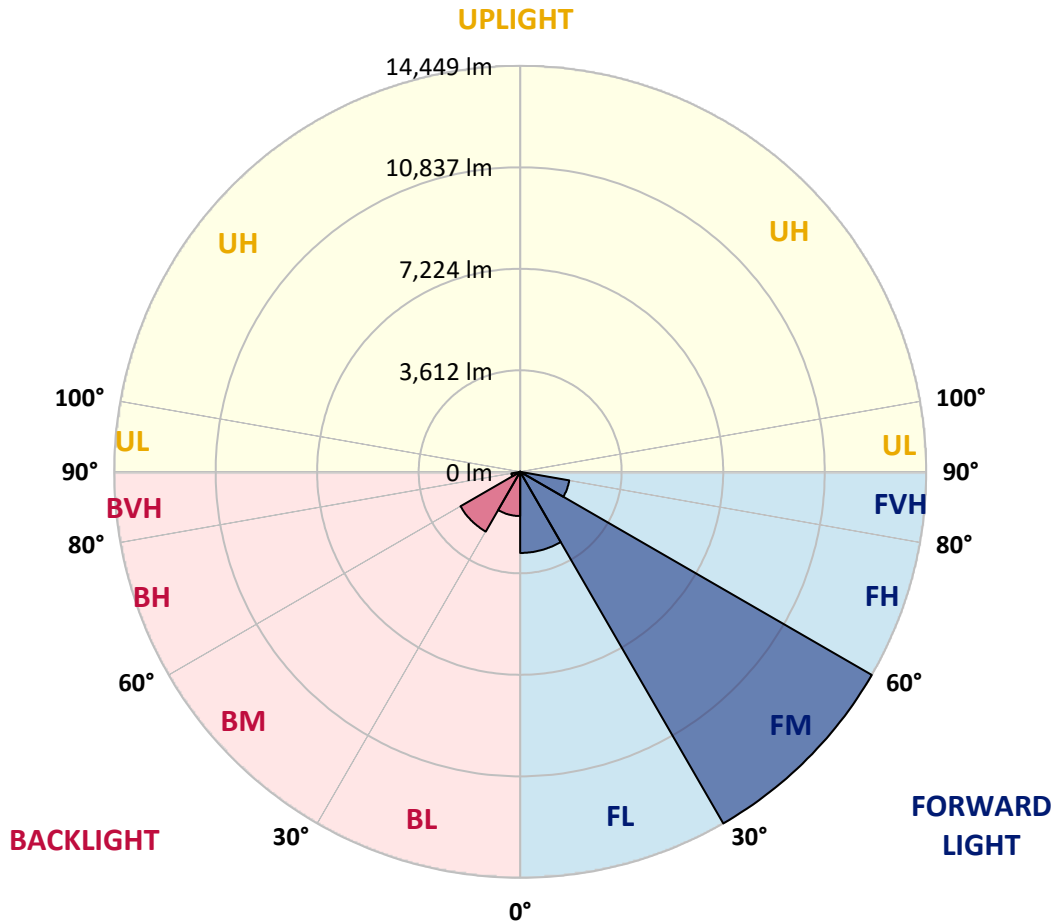
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2887.4	12.3			
FM (30°-60°)	14448.8	61.5			
FH (60°-80°)	1774.0	7.6			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1574.1	6.7	B3/2500		
BM (30°-60°)	2454.0	10.4	B2/2500		
BH (60°-80°)	318.5	1.4	B1/500		G1/500
BVH (80°-90°)	16.1	0.1			G1/100
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°	55°	65°	75°	78°	85°
0°	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8
2.5°	5677.6	5732.2	5740.6	5807.8	5803.6	5917.0	5950.6	5954.8	6030.4	5992.6	6089.2
5°	5518.0	5488.7	5476.1	5593.6	5627.2	5728.0	5812.0	5862.4	6017.8	6072.4	6173.2
7.5°	5375.3	5375.3	5383.7	5488.7	5476.1	5606.2	5694.4	5849.8	6076.6	6122.8	6244.6
10°	5236.7	5186.3	5249.3	5358.5	5450.9	5509.7	5694.4	5841.4	6106.0	6240.4	6408.3
12.5°	5165.3	5190.5	5198.9	5278.7	5379.5	5555.8	5656.6	5900.2	6315.9	6395.7	6576.3
15°	5614.6	5564.2	5442.5	5371.1	5455.1	5539.0	5791.0	6038.8	6425.1	6538.5	6740.1
17.5°	6135.4	6093.4	5992.6	5799.4	5610.4	5765.8	5963.2	6190.0	6542.7	6710.7	7008.8
20°	6815.7	6748.5	6647.7	6269.7	6106.0	5938.0	6148.0	6416.7	6735.9	6887.1	7193.6
22.5°	7626.2	7626.2	7399.4	6941.7	6601.5	6441.9	6530.1	6685.5	6950.1	7155.8	7458.2
25°	8470.2	8445.1	8239.3	7764.7	7189.4	7000.4	7101.2	7210.4	7281.8	7395.2	7596.8
27.5°	9436.1	9289.1	9028.8	8503.8	7995.7	7630.4	7739.5	7643.0	7554.8	7613.6	7903.3
30°	10091.2	10183.6	9851.9	9347.9	8869.2	8461.8	8482.8	8398.9	7995.7	8079.7	8251.9
32.5°	10771.5	10830.3	10645.6	10368.4	9889.7	9415.1	9242.9	9171.6	8869.2	8907.0	8739.0
35°	11338.5	11451.8	11288.1	11166.3	11027.7	10645.6	10171.0	10402.0	9914.9	9822.5	9385.7
37.5°	11859.2	11825.6	12018.8	11892.8	11863.4	11594.6	11073.9	11120.1	10792.5	10771.5	10267.6
40°	12325.3	12333.7	12598.3	12657.1	12539.5	12060.8	11304.9	11670.2	11934.8	11960.0	11313.3
42.5°	12711.7	12825.1	13051.8	13526.4	13350.0	12552.1	11544.2	11943.2	12925.8	13081.2	12304.3
45°	13047.6	13278.6	13560.0	13984.1	13883.3	13249.2	12140.5	12505.9	13984.1	14391.4	13236.6
47.5°	13068.6	13371.0	13677.5	14307.5	14433.4	13622.9	12757.9	13396.2	14824.0	15264.9	13916.9
50°	12984.6	13144.2	13757.3	14441.8	14727.4	14231.9	13622.9	14143.7	15638.7	15915.8	14261.3
52.5°	11989.4	12111.2	13341.6	14567.8	15256.5	14920.6	14769.4	15185.1	16470.2	16675.9	14584.6
55°	9994.6	9973.6	11666.0	13933.7	15500.1	15941.0	15848.6	15995.6	17431.8	17616.6	14664.4
57.5°	6836.7	7218.8	8680.2	11603.0	14009.3	15701.7	15798.3	15554.7	16310.6	16382.0	12783.1
60°	3687.1	3846.7	5022.5	7743.7	10666.5	12795.7	13047.6	12606.7	12547.9	12346.3	9125.4
62.5°	1465.6	1545.4	2213.1	3834.1	5812.0	7777.3	8319.1	8138.5	7752.1	7223.0	4724.4
65°	697.1	747.5	1100.3	1793.2	2578.4	3242.0	3783.7	3951.7	2914.4	2624.6	1558.0
67.5°	474.5	512.3	802.1	1024.7	919.7	961.7	1251.4	1163.2	684.5	583.7	432.5
70°	361.2	386.3	642.5	697.1	411.5	289.8	323.4	302.4	281.4	285.6	281.4
72.5°	256.2	277.2	470.3	411.5	180.6	134.4	172.2	205.8	205.8	205.8	201.6
75°	155.4	176.4	273.0	159.6	71.4	71.4	109.2	138.6	147.0	151.2	142.8
77.5°	79.8	100.8	92.4	46.2	46.2	54.6	79.8	96.6	105.0	105.0	100.8
80°	16.8	16.8	16.8	25.2	46.2	58.8	79.8	88.2	100.8	100.8	92.4
82.5°	0.0	4.2	12.6	25.2	42.0	54.6	75.6	88.2	100.8	105.0	96.6
85°	0.0	4.2	8.4	16.8	29.4	33.6	29.4	25.2	25.2	25.2	25.2
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8	6038.8
2.5°	6097.6	6110.2	6089.2	6085.0	6068.2	6118.6	5996.8	5967.4	6043.0	5971.6	5988.4
5°	6177.4	6206.8	6169.0	6106.0	6013.6	5870.8	5749.0	5589.4	5513.9	5459.3	5450.9
7.5°	6236.2	6257.1	6219.4	6017.8	5740.6	5379.5	5110.7	4913.3	4758.0	4711.8	4636.2
10°	6475.5	6479.7	6290.7	5845.6	5303.9	4829.3	4417.8	4115.4	3960.1	3863.5	3821.5
12.5°	6635.1	6626.7	6244.6	5505.5	4783.1	4153.2	3682.9	3317.5	3174.8	3128.6	3099.2
15°	6836.7	6790.5	6135.4	5156.9	4111.2	3430.9	3006.8	2754.8	2742.2	2712.8	2742.2
17.5°	6996.2	6866.1	5975.8	4522.8	3468.7	2826.2	2549.1	2565.9	2599.4	2628.8	2633.0
20°	7256.6	6987.8	5610.4	3968.5	2872.4	2423.1	2418.9	2494.5	2578.4	2612.0	2645.6
22.5°	7454.0	7038.2	5219.9	3376.3	2385.3	2259.3	2330.7	2444.1	2507.1	2540.7	2591.0
25°	7525.4	6899.7	4699.2	2784.2	2150.1	2183.7	2292.9	2368.5	2448.3	2486.1	2465.1
27.5°	7596.8	6828.3	4077.6	2292.9	2024.1	2133.3	2225.7	2301.3	2326.5	2376.9	2410.5
30°	7768.9	6580.5	3519.1	1982.1	1961.1	2099.7	2166.9	2192.1	2259.3	2288.7	2288.7
32.5°	7907.5	6483.9	2927.0	1835.2	1952.7	2116.5	2124.9	2124.9	2133.3	2112.3	2103.9
35°	8193.1	6152.2	2397.9	1747.0	1948.5	2120.7	2141.7	2070.3	1877.1	1801.6	1780.6
37.5°	8545.8	5938.0	2007.3	1726.0	1977.9	2171.1	2204.7	1935.9	1684.0	1562.2	1541.2
40°	8974.2	5786.8	1751.2	1717.6	2045.1	2288.7	2187.9	1831.0	1503.4	1327.0	1318.6
42.5°	9473.9	5648.2	1579.0	1713.4	2129.1	2410.5	2171.1	1742.8	1318.6	1201.0	1217.8
45°	9872.9	5572.6	1461.4	1684.0	2158.5	2481.9	2183.7	1587.4	1243.0	1167.4	1175.8
47.5°	10183.6	5413.1	1364.8	1633.6	2154.3	2507.1	2070.3	1524.4	1205.2	1226.2	1247.2
50°	10192.0	5198.9	1243.0	1524.4	2091.3	2460.9	1940.1	1465.6	1196.8	1285.0	1327.0
52.5°	10078.6	4896.5	1112.8	1369.0	1944.3	2301.3	1822.6	1440.4	1159.0	1150.6	1201.0
55°	9675.5	4329.6	894.5	1108.6	1642.0	1898.1	1717.6	1394.2	1045.7	949.1	957.5
57.5°	7819.3	3103.4	659.3	793.7	1163.2	1390.0	1549.6	1373.2	940.7	806.3	810.5
60°	4841.9	1759.6	482.9	541.7	718.1	844.1	1255.6	1276.6	839.9	680.3	671.9
62.5°	2486.1	869.3	373.7	382.1	440.9	495.5	860.9	1070.9	760.1	646.7	646.7
65°	831.5	428.3	327.6	294.0	294.0	306.6	520.7	743.3	642.5	541.7	541.7
67.5°	357.0	319.2	285.6	256.2	235.2	222.6	294.0	432.5	478.7	411.5	394.7
70°	277.2	268.8	247.8	214.2	184.8	168.0	172.2	222.6	273.0	264.6	256.2
72.5°	205.8	205.8	197.4	168.0	142.8	121.8	113.4	117.6	130.2	134.4	138.6
75°	142.8	147.0	147.0	130.2	105.0	88.2	75.6	63.0	50.4	42.0	37.8
77.5°	96.6	100.8	109.2	96.6	79.8	58.8	46.2	33.6	21.0	8.4	8.4
80°	84.0	96.6	105.0	96.6	84.0	63.0	46.2	25.2	12.6	0.0	0.0
82.5°	88.2	96.6	109.2	92.4	79.8	58.8	46.2	29.4	12.6	4.2	0.0
85°	21.0	21.0	25.2	29.4	37.8	42.0	33.6	21.0	12.6	4.2	0.0
87.5°	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	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)