

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: P533069

Luminaire Tested: **GALN-SA8C-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533069  
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-SA8C-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA 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: 27765 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

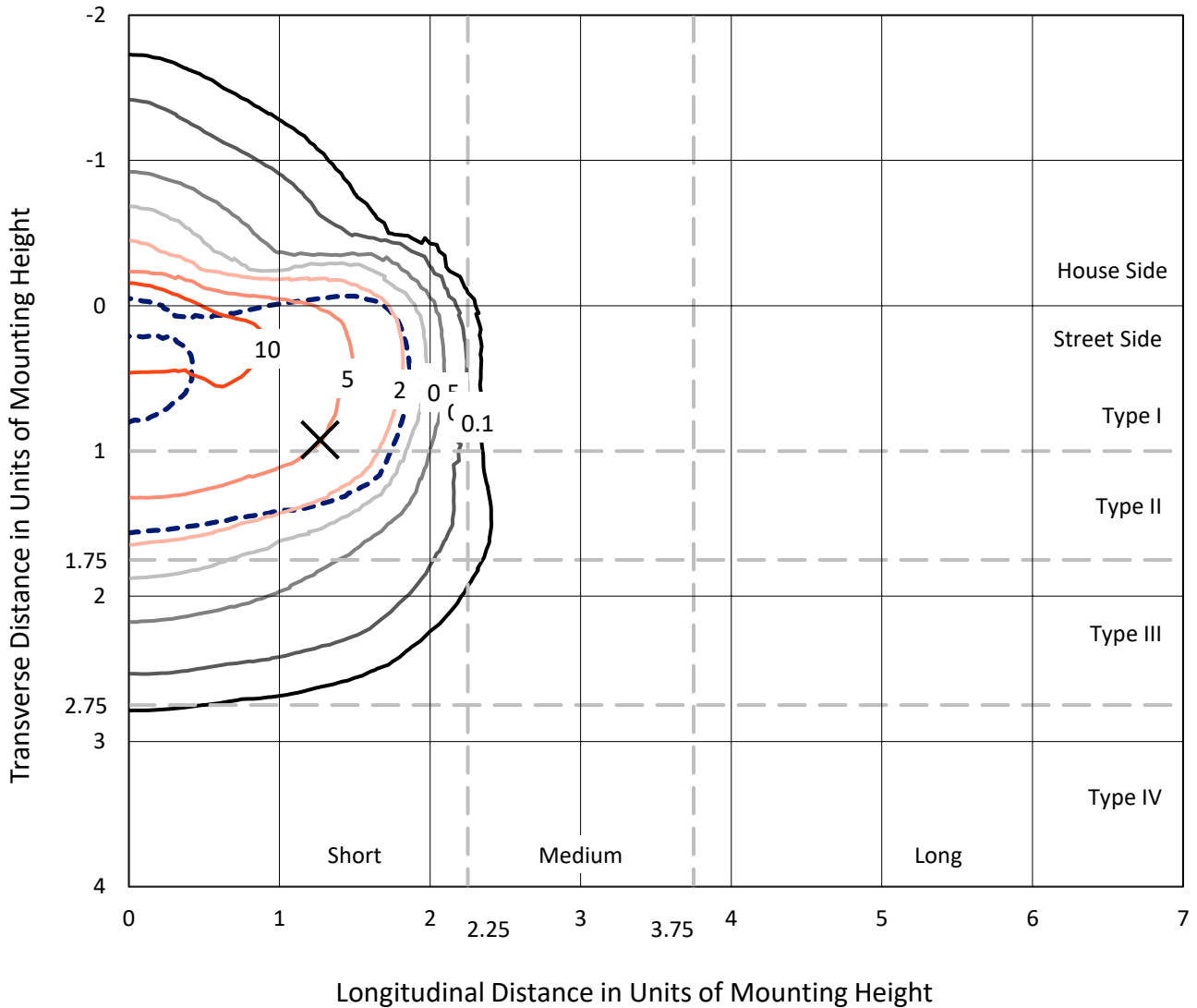
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

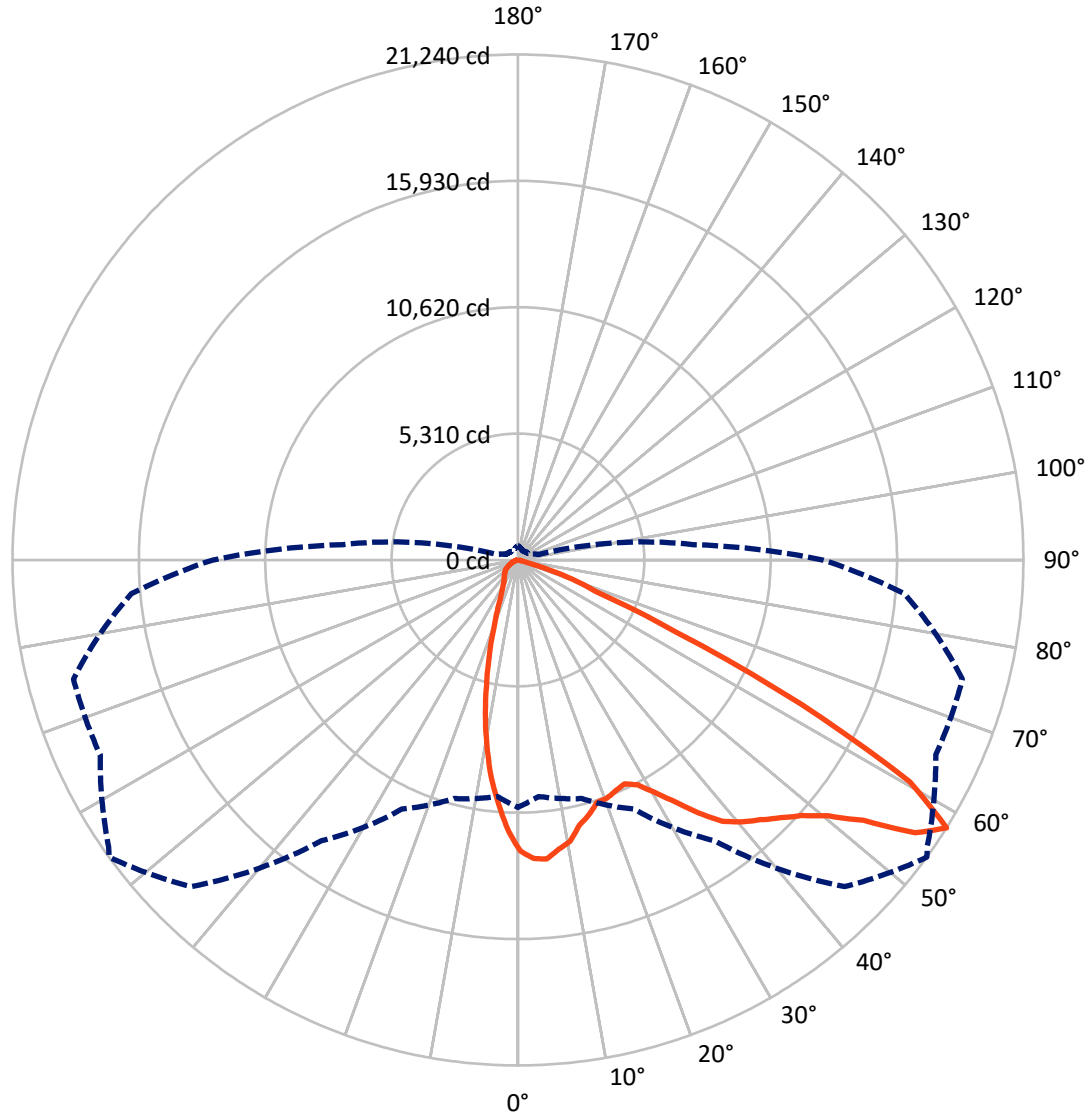
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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
<b>House Side</b>	Lumens	3923.7	0.0	3923.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	23841.3	0.0	23841.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	27765.0	0.0	27765.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1023.5	3.7
10°-20°	2185.2	7.9
20°-30°	2895.8	10.4
30°-40°	4208.4	15.2
40°-50°	6240.4	22.5
50°-60°	7803.4	28.1
60°-70°	3078.1	11.1
70°-80°	306.5	1.1
80°-90°	23.8	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°	27765.0	100.0
0°-180°	27765.0	100.0

**Coefficient of Utilization**

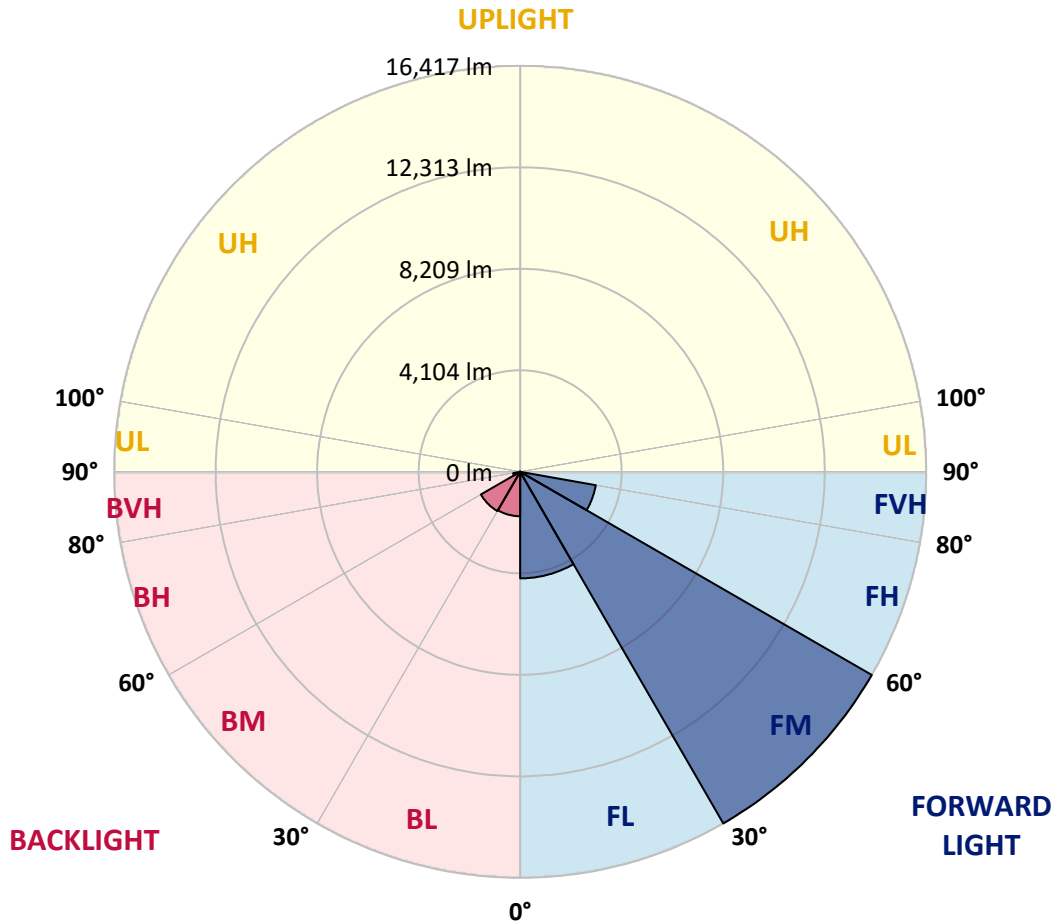


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4309.9	15.5			
FM (30°-60°)	16417.4	59.1			
FH (60°-80°)	3103.2	11.2			G2/5000
FVH (80°-90°)	10.8	0.0			G1/100
BL (0°-30°)	1794.5	6.5	B3/2500		
BM (30°-60°)	1834.8	6.6	B2/2500		
BH (60°-80°)	281.4	1.0	B1/500		G1/500
BVH (80°-90°)	13.0	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°	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9
2.5°	12943.3	12809.1	12819.4	12773.0	12711.0	12757.5	12556.1	12602.6	12597.4	12323.8	12143.1
5°	12618.1	12762.6	12612.9	12736.8	12618.1	12747.1	12623.2	12530.3	12380.6	12179.2	11843.6
7.5°	12065.6	11926.2	11967.5	12122.4	12148.3	12437.4	12282.5	12401.2	12339.3	11941.7	11482.2
10°	10955.6	10924.6	11131.2	11337.7	11590.7	11900.4	12019.2	11952.1	11905.6	11755.9	11141.5
12.5°	10103.8	10191.5	10186.4	10527.1	10955.6	11131.2	11440.9	11430.6	11688.8	11410.0	10821.4
15°	9293.2	9339.6	9556.5	9768.2	10243.1	10743.9	11126.0	11177.6	11487.4	11291.2	10573.6
17.5°	8797.5	8730.4	8900.8	9153.8	9639.1	10294.8	10718.1	10842.0	11265.4	11224.1	10289.6
20°	8307.1	8307.1	8446.5	8745.9	9189.9	9928.2	10682.0	10645.9	11265.4	11146.7	9985.0
22.5°	8141.9	8224.5	8260.6	8487.8	9014.4	9649.4	10527.1	10594.2	11353.2	11110.5	9850.8
25°	8369.0	8260.6	8270.9	8451.6	8947.3	9515.2	10413.5	10563.2	11513.2	11291.2	9742.3
27.5°	8405.2	8513.6	8544.6	8668.5	8998.9	9556.5	10697.5	11002.1	11910.8	11714.6	9773.3
30°	8720.1	8828.5	8823.4	9035.0	9262.2	9892.1	11332.5	11394.5	12731.7	12246.3	9964.4
32.5°	9102.2	9215.7	9251.9	9499.7	9680.4	10506.5	12106.9	12267.0	13521.6	13082.7	10465.2
35°	9577.1	9535.8	9701.0	9948.9	10336.1	11404.8	13051.8	13320.2	14373.5	14166.9	10981.4
37.5°	10170.9	10119.2	10279.3	10682.0	11208.6	12468.3	13924.3	14099.8	14993.0	15173.7	11936.6
40°	10589.1	10609.7	11095.0	11637.1	12194.7	13480.3	14476.7	14647.1	15426.7	16113.3	12659.4
42.5°	11286.0	11415.1	11998.5	12659.4	13242.8	14239.2	14925.9	15091.1	15628.0	16867.1	13635.2
45°	12298.0	12241.2	12886.5	13624.8	14270.2	15029.1	15457.7	15400.9	15746.8	17615.7	14249.5
47.5°	13599.0	13609.3	14037.9	14667.7	15338.9	15715.8	16051.4	15850.0	15994.6	18405.7	15070.4
50°	14487.0	14564.5	14910.4	15555.7	15891.3	16469.6	16898.1	16774.2	16727.7	18880.6	15586.7
52.5°	14714.2	14946.5	15132.4	15937.8	16722.6	17636.4	18183.7	18447.0	17620.9	19040.7	16242.4
55°	13000.1	13206.6	13862.3	14967.2	17037.5	19484.7	20238.5	20243.6	18787.7	19753.2	16701.9
57.5°	10392.9	9974.7	10377.4	11549.4	14404.4	19407.3	21240.1	20997.4	19371.1	19335.0	16304.4
60°	7186.7	7083.5	7109.3	7573.9	9969.5	15437.0	18927.1	19242.0	17837.7	16758.7	12907.2
62.5°	5694.7	5606.9	5493.3	5441.7	6190.3	9618.4	13351.2	13795.2	12473.5	10867.9	7651.4
65°	4460.7	4409.1	4424.6	4631.1	4625.9	5457.2	7300.3	7119.6	5699.8	4212.9	2405.9
67.5°	3010.0	3087.4	3149.4	3774.1	4094.2	3799.9	3526.2	3423.0	1853.5	779.6	531.8
70°	1693.4	1703.7	1770.9	2359.4	3108.1	2948.0	2431.7	2431.7	924.2	284.0	304.6
72.5°	924.2	893.2	831.2	1017.1	1383.7	1404.3	1084.2	944.8	273.6	185.9	170.4
75°	449.2	444.0	382.1	314.9	299.4	247.8	191.0	175.5	123.9	118.7	103.3
77.5°	92.9	87.8	46.5	46.5	51.6	56.8	72.3	72.3	87.8	87.8	72.3
80°	0.0	0.0	5.2	20.7	36.1	51.6	62.0	62.0	72.3	72.3	56.8
82.5°	0.0	0.0	5.2	15.5	31.0	46.5	56.8	62.0	72.3	77.4	62.0
85°	0.0	0.0	0.0	10.3	25.8	36.1	31.0	31.0	25.8	20.7	10.3
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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CATALOG NUMBER: GALN-SA8C-727-U-SL3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9	12230.9
2.5°	12050.2	12039.8	11802.3	11668.1	11425.4	11213.8	11043.4	10919.5	10919.5	10842.0	10769.8
5°	11709.4	11621.6	11115.7	10790.4	10330.9	9990.2	9757.8	9577.1	9293.2	9370.6	9066.0
7.5°	11286.0	11064.0	10392.9	9897.2	9262.2	8776.9	8281.3	7842.4	7419.1	7228.0	7331.3
10°	10831.7	10444.5	9541.0	8756.2	7966.3	7078.3	6500.1	5797.9	5364.2	5338.4	5224.8
12.5°	10351.6	9912.7	8813.0	7728.8	6691.1	5622.4	4739.5	4083.8	3789.6	3464.3	3526.2
15°	9990.2	9339.6	8002.5	6696.3	5317.8	4238.7	3350.7	2844.7	2566.0	2488.5	2462.7
17.5°	9597.8	8900.8	7176.4	5596.6	4171.6	3051.3	2411.1	2168.4	2060.0	2060.0	2044.5
20°	9189.9	8405.2	6355.5	4574.3	3128.7	2276.8	1930.9	1853.5	1848.3	1843.1	1843.1
22.5°	8921.5	7837.2	5612.0	3634.7	2359.4	1822.5	1677.9	1647.0	1667.6	1729.6	1729.6
25°	8637.5	7290.0	4791.2	2803.4	1827.7	1564.4	1481.7	1502.4	1554.0	1610.8	1590.2
27.5°	8348.4	6933.7	4016.7	2199.4	1497.2	1368.2	1337.2	1383.7	1440.4	1492.1	1476.6
30°	8281.3	6551.7	3283.6	1667.6	1285.6	1192.6	1213.3	1254.6	1311.4	1332.0	1352.7
32.5°	8384.5	6252.2	2689.9	1368.2	1120.3	1094.5	1094.5	1115.2	1151.3	1197.8	1182.3
35°	8678.8	6081.9	2127.1	1187.5	1027.4	1001.6	996.4	1017.1	1037.7	1053.2	1037.7
37.5°	9128.0	5947.6	1739.9	1053.2	965.5	924.2	913.8	908.7	929.3	934.5	944.8
40°	9701.0	6019.9	1476.6	970.6	903.5	857.0	826.1	826.1	826.1	841.5	846.7
42.5°	10320.6	6118.0	1275.2	924.2	846.7	789.9	758.9	748.6	758.9	779.6	774.4
45°	10971.1	6309.0	1146.2	851.9	795.1	722.8	681.5	671.2	697.0	738.3	733.1
47.5°	11580.3	6582.7	1048.1	805.4	743.5	676.3	624.7	614.4	660.8	717.6	722.8
50°	12189.6	7057.7	1011.9	769.3	707.3	629.9	583.4	573.1	624.7	697.0	712.5
52.5°	12891.7	7568.8	986.1	722.8	666.0	593.7	542.1	531.8	588.6	681.5	686.7
55°	13351.2	8002.5	965.5	640.2	588.6	536.9	495.6	490.5	552.4	635.0	655.7
57.5°	12814.3	7398.4	893.2	557.6	500.8	475.0	438.8	438.8	490.5	567.9	583.4
60°	9716.5	4868.6	635.0	449.2	423.4	407.9	392.4	392.4	433.7	490.5	495.6
62.5°	5689.5	2622.7	407.9	361.4	361.4	345.9	320.1	320.1	361.4	392.4	397.5
65°	1688.3	841.5	330.4	309.8	304.6	278.8	253.0	247.8	278.8	294.3	289.1
67.5°	485.3	387.2	273.6	258.1	253.0	211.7	196.2	191.0	196.2	185.9	180.7
70°	289.1	263.3	211.7	216.8	191.0	154.9	139.4	134.2	123.9	108.4	98.1
72.5°	160.0	160.0	154.9	165.2	134.2	103.3	87.8	72.3	56.8	46.5	41.3
75°	98.1	103.3	108.4	113.6	87.8	67.1	56.8	36.1	20.7	10.3	10.3
77.5°	67.1	72.3	77.4	82.6	72.3	62.0	46.5	25.8	5.2	0.0	0.0
80°	51.6	56.8	67.1	72.3	77.4	82.6	62.0	25.8	5.2	0.0	0.0
82.5°	56.8	62.0	77.4	72.3	72.3	72.3	56.8	25.8	5.2	0.0	0.0
85°	10.3	15.5	25.8	25.8	36.1	46.5	36.1	10.3	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)