

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: P533315

Luminaire Tested: **GALN-SA8D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533315  
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-SA8D-727-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA 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: 31772 lumens  
Efficiency: N/A  
Efficacy: 64.4 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

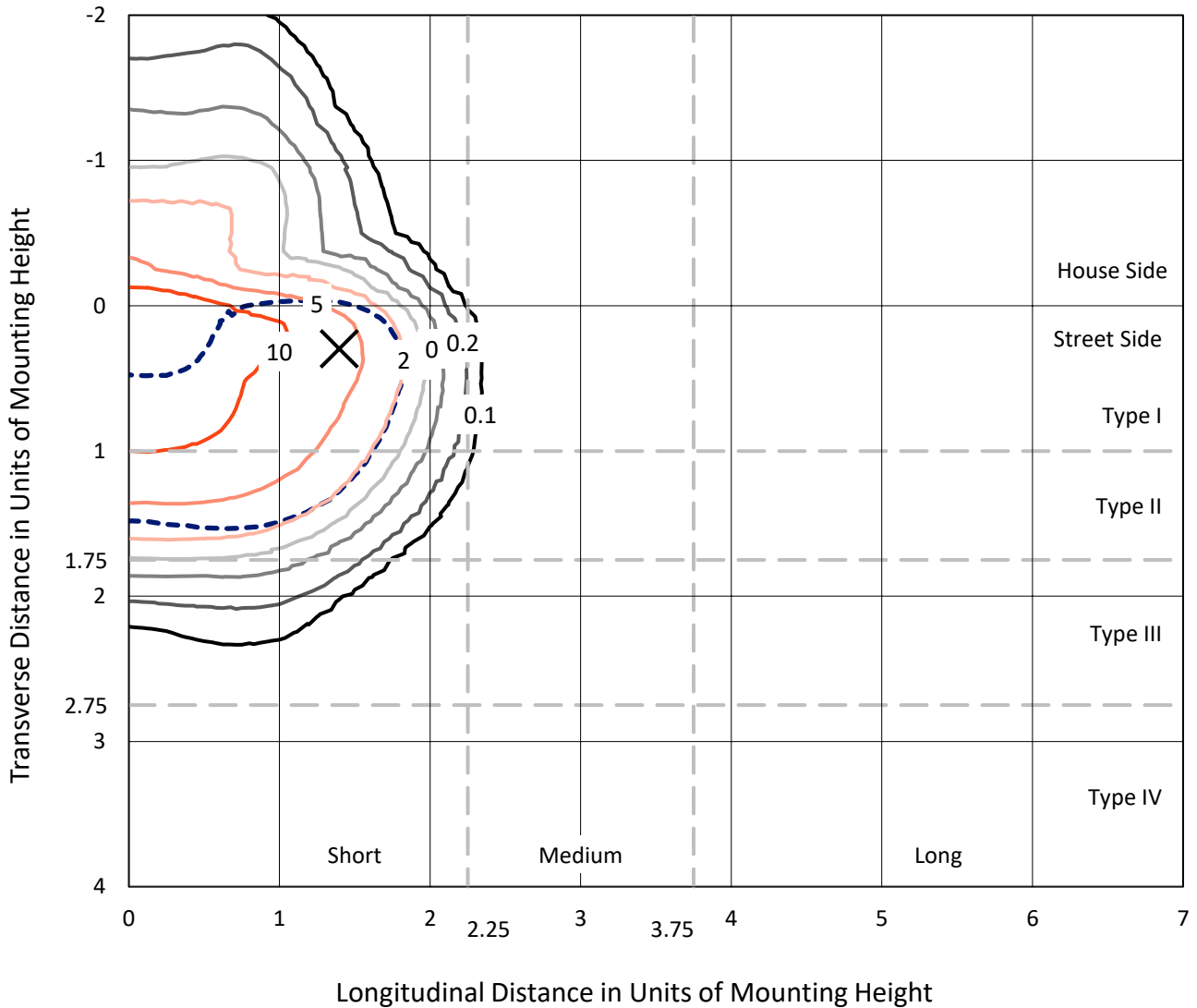
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

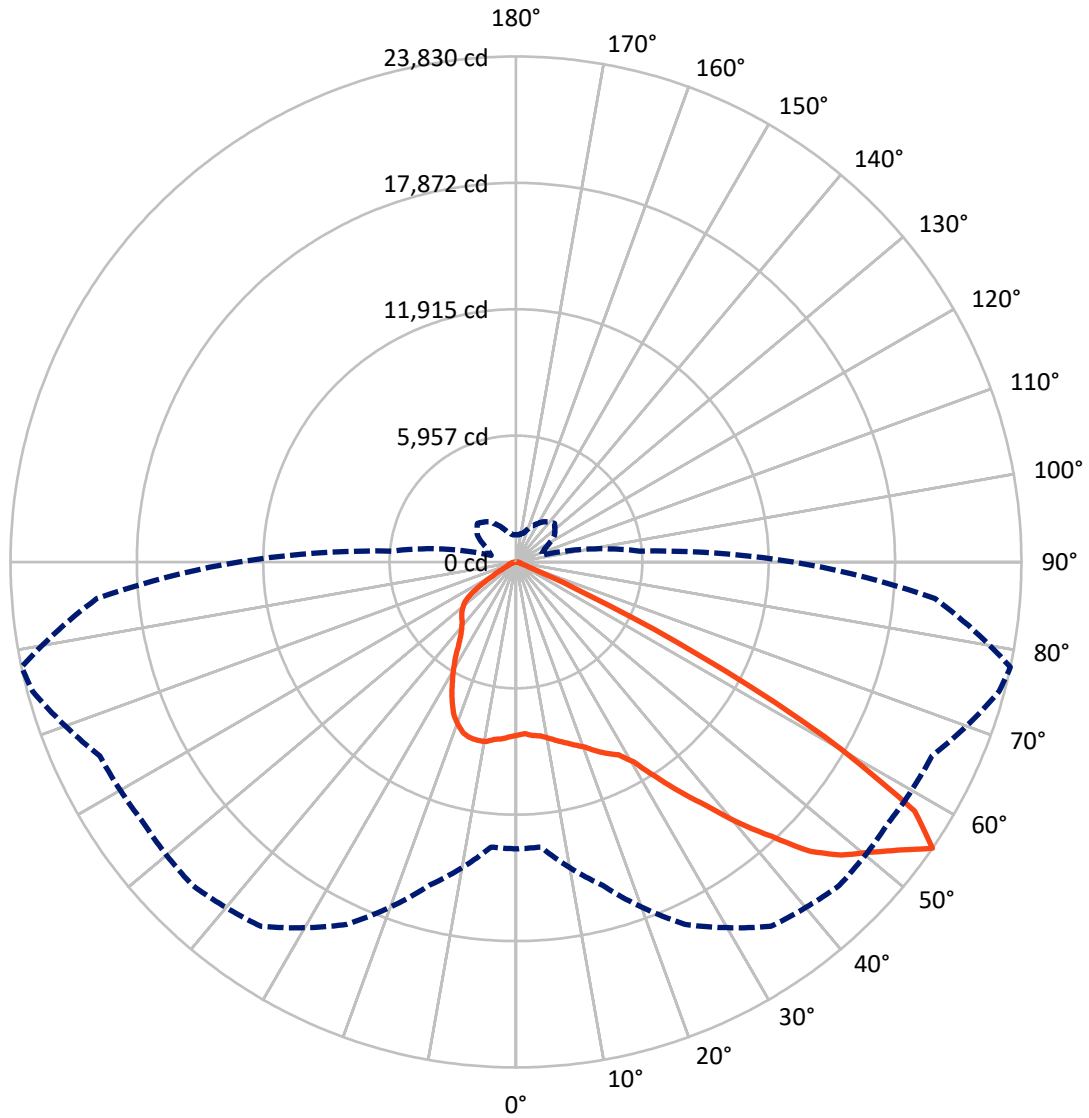
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	5901.3	0.0	5901.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	25870.7	0.0	25870.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	31772.0	0.0	31772.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.4	2.3
10°-20°	1927.7	6.1
20°-30°	3378.9	10.6
30°-40°	5571.3	17.5
40°-50°	8107.0	25.5
50°-60°	9186.0	28.9
60°-70°	2626.5	8.3
70°-80°	203.9	0.6
80°-90°	42.4	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°	31772.0	100.0
0°-180°	31772.0	100.0

**Coefficient of Utilization**



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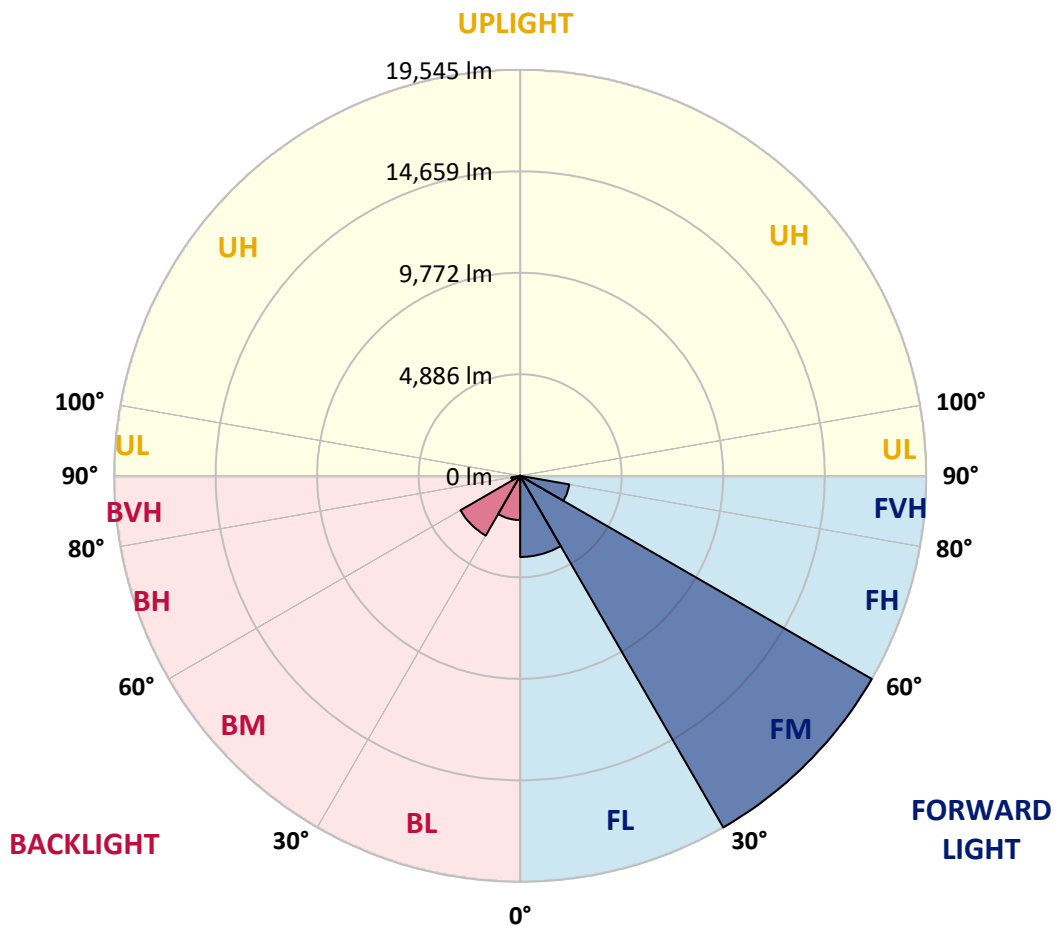
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3905.7	12.3			
FM (30°-60°)	19544.7	61.5			
FH (60°-80°)	2399.6	7.6			G2/5000
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	2129.2	6.7	B3/2500		
BM (30°-60°)	3319.6	10.4	B3/5000		
BH (60°-80°)	430.8	1.4	B1/500		G1/500
BVH (80°-90°)	21.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6
2.5°	7680.1	7753.9	7765.3	7856.2	7850.5	8003.9	8049.3	8055.0	8157.2	8106.1	8236.8
5°	7464.2	7424.5	7407.4	7566.5	7611.9	7748.2	7861.9	7930.0	8140.2	8214.0	8350.4
7.5°	7271.1	7271.1	7282.4	7424.5	7407.4	7583.5	7702.8	7913.0	8219.7	8282.2	8446.9
10°	7083.6	7015.5	7100.7	7248.4	7373.3	7452.9	7702.8	7901.6	8259.5	8441.3	8668.5
12.5°	6987.0	7021.1	7032.5	7140.4	7276.8	7515.3	7651.7	7981.1	8543.5	8651.4	8895.7
15°	7594.9	7526.7	7362.0	7265.4	7379.0	7492.6	7833.4	8168.6	8691.2	8844.6	9117.2
17.5°	8299.3	8242.4	8106.1	7844.8	7589.2	7799.4	8066.4	8373.1	8850.3	9077.5	9480.8
20°	9219.5	9128.6	8992.3	8481.0	8259.5	8032.3	8316.3	8679.8	9111.6	9316.1	9730.7
22.5°	10315.8	10315.8	10009.1	9389.9	8929.8	8713.9	8833.2	9043.4	9401.3	9679.6	10088.6
25°	11457.6	11423.5	11145.2	10503.3	9725.1	9469.4	9605.8	9753.5	9850.0	10003.4	10276.1
27.5°	12764.1	12565.3	12213.1	11503.1	10815.7	10321.5	10469.2	10338.6	10219.3	10298.8	10690.8
30°	13650.3	13775.3	13326.5	12644.9	11997.3	11446.3	11474.7	11361.1	10815.7	10929.3	11162.2
32.5°	14570.6	14650.1	14400.1	14025.2	13377.6	12735.7	12502.8	12406.3	11997.3	12048.4	11821.2
35°	15337.4	15490.8	15269.3	15104.5	14917.1	14400.1	13758.2	14070.7	13411.7	13286.8	12696.0
37.5°	16041.8	15996.4	16257.7	16087.3	16047.5	15683.9	14979.6	15042.0	14599.0	14570.6	13888.9
40°	16672.4	16683.7	17041.6	17121.1	16962.1	16314.5	15292.0	15786.2	16144.1	16178.1	15303.3
42.5°	17195.0	17348.3	17655.1	18297.0	18058.4	16979.1	15615.8	16155.4	17484.7	17694.8	16643.9
45°	17649.4	17961.8	18342.4	18916.2	18779.8	17922.1	16422.4	16916.6	18916.2	19467.2	17905.0
47.5°	17677.8	18086.8	18501.5	19353.6	19524.0	18427.6	17257.4	18120.9	20052.3	20648.7	18825.3
50°	17564.2	17780.1	18609.4	19535.3	19921.6	19251.3	18427.6	19132.0	21154.3	21529.2	19291.1
52.5°	16217.9	16382.6	18047.0	19705.8	20637.4	20182.9	19978.4	20540.8	22279.0	22557.4	19728.5
55°	13519.7	13491.3	15780.5	18848.0	20966.8	21563.3	21438.3	21637.1	23579.9	23829.8	19836.4
57.5°	9247.9	9764.8	11741.7	15695.3	18950.2	21239.5	21370.1	21040.7	22063.2	22159.7	17291.5
60°	4987.5	5203.4	6793.9	10474.9	14428.5	17308.6	17649.4	17052.9	16973.4	16700.8	12343.8
62.5°	1982.5	2090.4	2993.6	5186.3	7861.9	10520.3	11253.1	11008.9	10486.3	9770.5	6390.6
65°	943.0	1011.1	1488.3	2425.6	3487.8	4385.4	5118.2	5345.4	3942.3	3550.3	2107.5
67.5°	641.9	693.0	1085.0	1386.0	1244.0	1300.8	1692.8	1573.5	925.9	789.6	585.1
70°	488.5	522.6	869.1	943.0	556.7	392.0	437.4	409.0	380.6	386.3	380.6
72.5°	346.5	374.9	636.2	556.7	244.3	181.8	232.9	278.3	278.3	278.3	272.7
75°	210.2	238.6	369.2	215.9	96.6	96.6	147.7	187.5	198.8	204.5	193.1
77.5°	107.9	136.3	125.0	62.5	62.5	73.8	107.9	130.7	142.0	142.0	136.3
80°	22.7	22.7	22.7	34.1	62.5	79.5	107.9	119.3	136.3	136.3	125.0
82.5°	0.0	5.7	17.0	34.1	56.8	73.8	102.2	119.3	136.3	142.0	130.7
85°	0.0	5.7	11.4	22.7	39.8	45.4	39.8	34.1	34.1	34.1	34.1
87.5°	0.0	0.0	5.7	5.7	5.7	11.4	11.4	11.4	11.4	11.4	11.4
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°	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6	8168.6
2.5°	8248.1	8265.2	8236.8	8231.1	8208.4	8276.5	8111.8	8072.0	8174.3	8077.7	8100.4
5°	8356.1	8395.8	8344.7	8259.5	8134.5	7941.4	7776.6	7560.8	7458.5	7384.7	7373.3
7.5°	8435.6	8464.0	8412.9	8140.2	7765.3	7276.8	6913.2	6646.2	6436.0	6373.6	6271.3
10°	8759.4	8765.1	8509.4	7907.3	7174.5	6532.6	5975.9	5566.9	5356.7	5226.1	5169.3
12.5°	8975.2	8963.9	8446.9	7447.2	6470.1	5618.0	4981.8	4487.6	4294.5	4232.0	4192.2
15°	9247.9	9185.4	8299.3	6975.7	5561.2	4641.0	4067.3	3726.4	3709.4	3669.6	3709.4
17.5°	9463.8	9287.7	8083.4	6117.9	4692.1	3823.0	3448.1	3470.8	3516.2	3556.0	3561.7
20°	9816.0	9452.4	7589.2	5368.1	3885.5	3277.7	3272.0	3374.2	3487.8	3533.3	3578.7
22.5°	10082.9	9520.6	7060.9	4567.1	3226.5	3056.1	3152.7	3306.1	3391.3	3436.7	3504.9
25°	10179.5	9333.1	6356.5	3766.2	2908.4	2953.9	3101.6	3203.8	3311.7	3362.9	3334.5
27.5°	10276.1	9236.5	5515.8	3101.6	2738.0	2885.7	3010.7	3112.9	3147.0	3215.2	3260.6
30°	10509.0	8901.4	4760.3	2681.2	2652.8	2840.3	2931.2	2965.2	3056.1	3095.9	3095.9
32.5°	10696.4	8770.7	3959.3	2482.4	2641.4	2863.0	2874.3	2874.3	2885.7	2857.3	2845.9
35°	11082.7	8322.0	3243.6	2363.1	2635.8	2868.7	2897.1	2800.5	2539.2	2436.9	2408.5
37.5°	11559.9	8032.3	2715.3	2334.7	2675.5	2936.8	2982.3	2618.7	2277.9	2113.2	2084.8
40°	12139.3	7827.8	2368.8	2323.3	2766.4	3095.9	2959.6	2476.7	2033.6	1795.0	1783.7
42.5°	12815.3	7640.3	2135.9	2317.7	2880.0	3260.6	2936.8	2357.4	1783.7	1624.6	1647.4
45°	13354.9	7538.1	1976.8	2277.9	2919.8	3357.2	2953.9	2147.2	1681.4	1579.2	1590.5
47.5°	13775.3	7322.2	1846.2	2209.7	2914.1	3391.3	2800.5	2062.0	1630.3	1658.7	1687.1
50°	13786.6	7032.5	1681.4	2062.0	2828.9	3328.8	2624.4	1982.5	1619.0	1738.2	1795.0
52.5°	13633.3	6623.5	1505.3	1851.9	2630.1	3112.9	2465.3	1948.4	1567.8	1556.5	1624.6
55°	13087.9	5856.6	1210.0	1499.7	2221.1	2567.6	2323.3	1885.9	1414.5	1283.8	1295.2
57.5°	10577.1	4197.9	891.8	1073.6	1573.5	1880.3	2096.1	1857.5	1272.4	1090.7	1096.3
60°	6549.6	2380.1	653.3	732.8	971.4	1141.8	1698.5	1726.9	1136.1	920.2	908.9
62.5°	3362.9	1175.9	505.6	516.9	596.5	670.3	1164.5	1448.5	1028.2	874.8	874.8
65°	1124.7	579.4	443.1	397.6	397.6	414.7	704.4	1005.5	869.1	732.8	732.8
67.5°	482.8	431.7	386.3	346.5	318.1	301.1	397.6	585.1	647.6	556.7	534.0
70°	374.9	363.6	335.2	289.7	249.9	227.2	232.9	301.1	369.2	357.9	346.5
72.5°	278.3	278.3	267.0	227.2	193.1	164.7	153.4	159.1	176.1	181.8	187.5
75°	193.1	198.8	198.8	176.1	142.0	119.3	102.2	85.2	68.2	56.8	51.1
77.5°	130.7	136.3	147.7	130.7	107.9	79.5	62.5	45.4	28.4	11.4	11.4
80°	113.6	130.7	142.0	130.7	113.6	85.2	62.5	34.1	17.0	0.0	0.0
82.5°	119.3	130.7	147.7	125.0	107.9	79.5	62.5	39.8	17.0	5.7	0.0
85°	28.4	28.4	34.1	39.8	51.1	56.8	45.4	28.4	17.0	5.7	0.0
87.5°	11.4	11.4	11.4	11.4	11.4	5.7	5.7	5.7	5.7	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)