

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: P531897

Luminaire Tested: **GALN-SA7B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531897  
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-SA7B-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA 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: 19346 lumens  
Efficiency: N/A  
Efficacy: 67.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

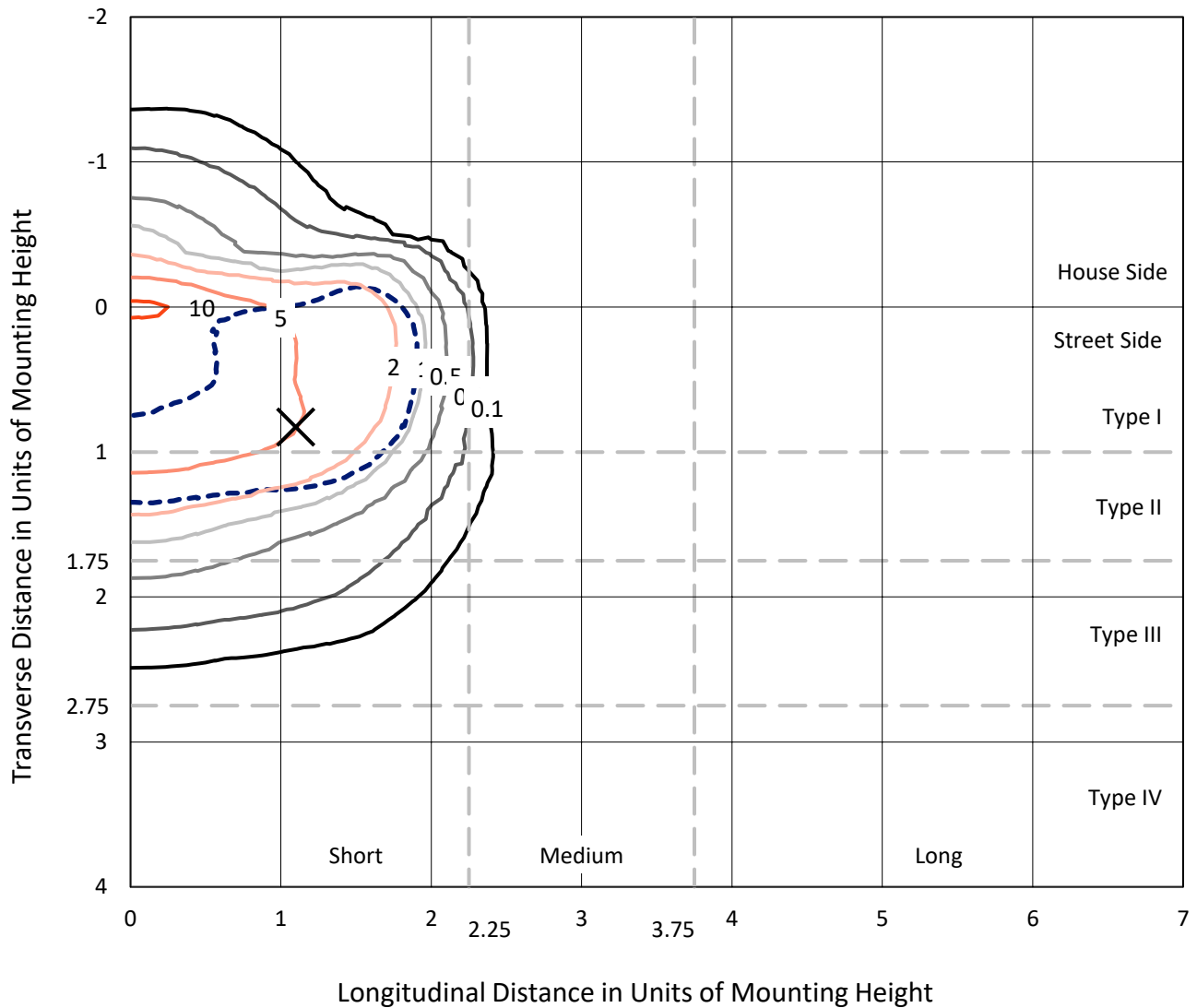
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P531897  
 CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

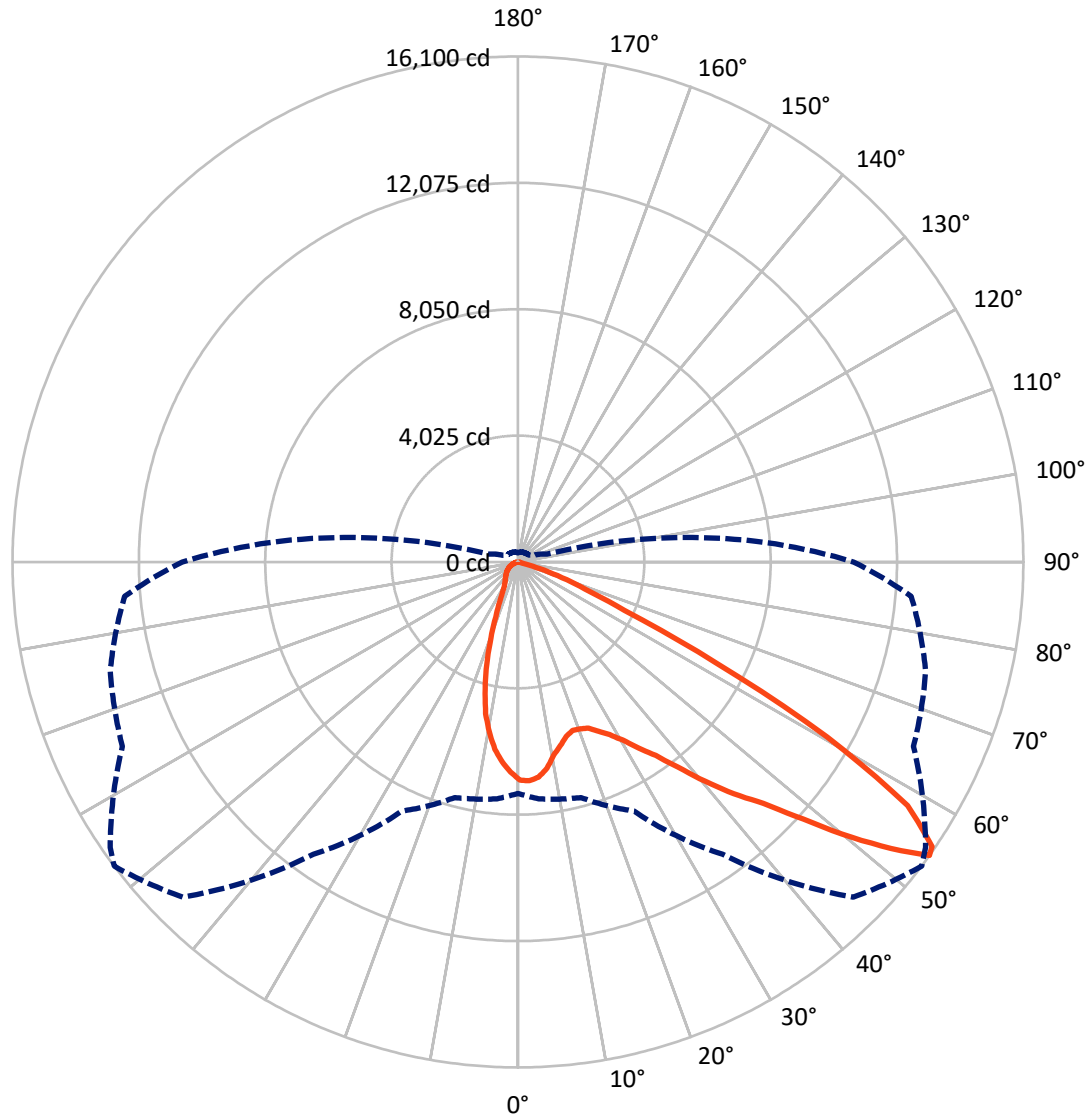
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P531897  
CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P531897  
 CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3200.8	0.0	3200.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	16145.1	0.0	16145.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	19346.0	0.0	19346.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.2	3.1
10°-20°	1366.9	7.1
20°-30°	1942.6	10.0
30°-40°	2998.0	15.5
40°-50°	4700.5	24.3
50°-60°	5460.3	28.2
60°-70°	2063.2	10.7
70°-80°	196.2	1.0
80°-90°	22.1	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°	19346.0	100.0
0°-180°	19346.0	100.0

**Coefficient of Utilization**

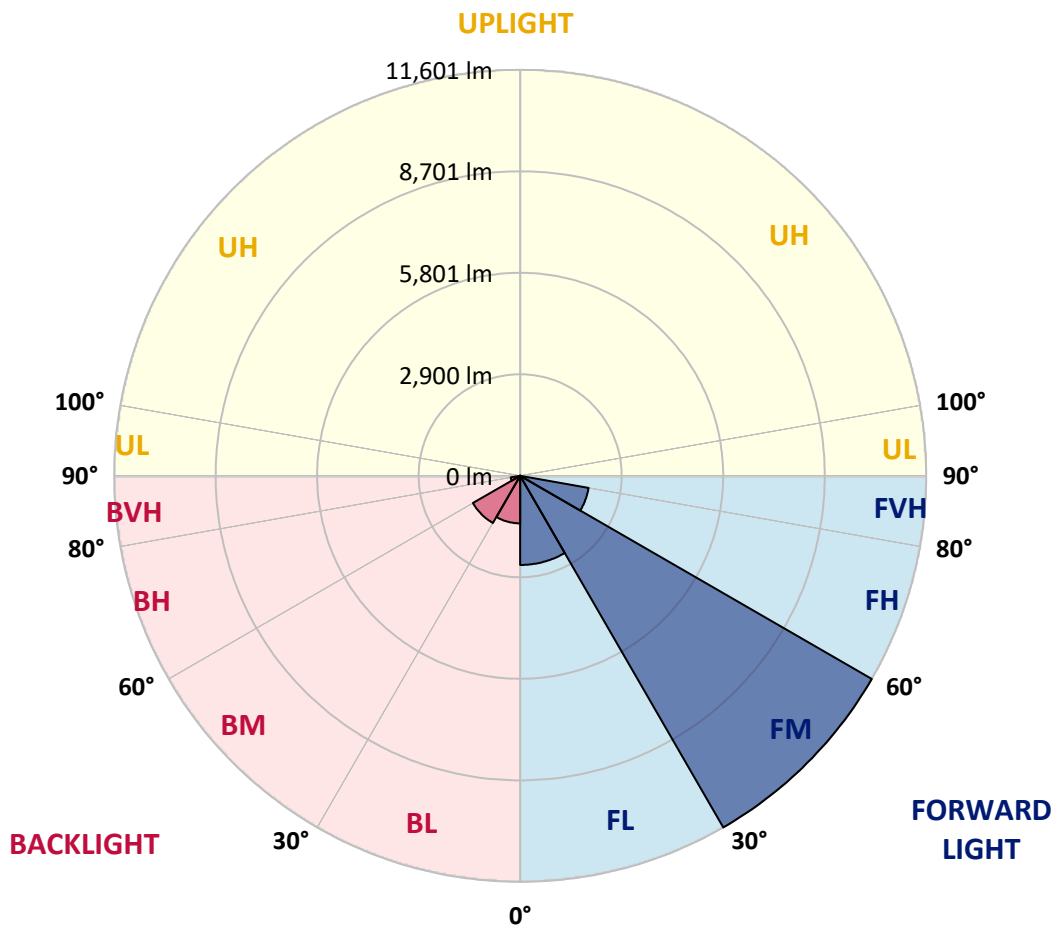


REPORT NUMBER: P531897  
 CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2547.4	13.2			
FM (30°-60°)	11601.2	60.0			
FH (60°-80°)	1985.2	10.3			G2/5000
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1358.3	7.0	B3/2500		
BM (30°-60°)	1557.6	8.1	B2/2500		
BH (60°-80°)	274.2	1.4	B1/500		G1/500
BVH (80°-90°)	10.7	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





REPORT NUMBER: P531897

CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8
2.5°	6912.7	6851.4	6912.7	6919.9	6963.2	7002.8	6977.6	7035.3	7002.8	6966.8	6956.0
5°	6354.1	6437.0	6440.6	6570.3	6541.5	6779.4	6883.9	6855.0	7031.7	7020.8	6995.6
7.5°	5853.1	5820.7	5863.9	6015.3	6206.3	6480.2	6631.6	6628.0	6880.3	7060.5	7042.5
10°	5388.2	5384.6	5474.7	5593.6	5755.8	6044.1	6253.2	6357.7	6750.5	7024.4	7064.1
12.5°	5074.6	5060.2	5157.5	5254.8	5510.7	5734.2	6000.9	6051.3	6501.8	6898.3	6963.2
15°	4869.2	4901.6	4908.8	5096.2	5258.4	5554.0	5763.0	5867.5	6386.5	6797.4	7046.1
17.5°	4833.1	4876.4	4880.0	5035.0	5208.0	5456.6	5640.5	5781.0	6289.2	6847.8	7049.7
20°	4905.2	4880.0	4901.6	4998.9	5168.3	5406.2	5672.9	5719.7	6256.8	6873.1	7089.3
22.5°	5110.7	5103.4	5049.4	5128.7	5247.6	5496.3	5748.6	5820.7	6350.5	7002.8	7121.8
25°	5337.7	5377.4	5326.9	5316.1	5399.0	5644.1	5979.2	6073.0	6664.0	7237.1	7222.7
27.5°	5763.0	5723.4	5723.4	5672.9	5651.3	5770.2	6227.9	6382.9	7013.6	7539.8	7338.0
30°	6170.3	6213.5	6181.1	6199.1	6054.9	6044.1	6581.1	6772.2	7633.5	8001.2	7583.1
32.5°	6815.4	6757.7	6811.8	6764.9	6573.9	6379.3	7060.5	7258.7	8383.2	8531.0	7950.7
35°	7352.4	7327.2	7557.9	7550.6	7240.7	7049.7	7568.7	7864.2	8905.8	9165.3	8383.2
37.5°	8116.5	8069.6	8332.7	8458.9	8181.4	7896.6	8296.7	8639.1	9392.4	9673.5	8826.5
40°	8902.2	9021.1	9374.3	9583.4	9287.8	8909.4	9186.9	9291.4	9716.7	10005.1	9129.3
42.5°	9896.9	10069.9	10430.3	10610.6	10585.3	10174.5	10091.6	10088.0	9951.0	9911.3	9352.7
45°	10852.0	10787.2	11342.2	11735.0	12052.2	11933.3	10963.8	10855.6	10322.2	10051.9	9410.4
47.5°	11270.1	11248.5	11626.9	12326.1	13407.4	13555.1	12232.4	11814.3	10949.3	10643.0	9723.9
50°	10729.5	10841.2	11216.0	11990.9	13648.8	14776.9	13789.4	13227.1	11681.0	11363.8	10466.4
52.5°	8963.5	9039.2	9396.0	10379.9	12827.1	15497.7	15281.5	14957.1	13025.3	12499.1	11760.3
54°	7370.4	7572.3	7766.9	8754.4	11363.8	15097.7	16099.6	15851.0	13901.1	13443.4	12574.8
55°	6419.0	6537.9	6678.4	7662.4	10351.1	14420.1	16005.9	16027.6	14488.6	13738.9	13122.6
57.5°	4689.0	4771.9	4627.7	5063.8	7107.3	11709.8	14640.0	15223.8	15281.5	14182.2	13457.8
60°	3582.5	3618.5	3456.4	3524.8	4418.7	8037.2	11324.2	12027.0	13785.8	12394.6	11399.9
62.5°	2778.8	2786.0	2782.4	2901.3	3045.5	4728.6	7082.1	7705.6	9504.1	8801.3	7741.7
65°	2047.1	2014.7	2072.4	2432.8	2598.6	2973.4	3730.3	4184.4	5164.7	4361.0	3117.6
67.5°	1326.3	1337.1	1394.8	1809.3	2227.4	2281.4	2295.8	2259.8	2263.4	1247.0	782.1
70°	796.5	814.5	796.5	1023.6	1593.0	1636.3	1495.7	1459.7	1138.9	295.5	291.9
72.5°	472.1	446.9	400.1	439.7	663.2	792.9	713.6	710.0	446.9	173.0	173.0
75°	198.2	180.2	147.8	133.4	176.6	169.4	169.4	151.4	118.9	115.3	108.1
77.5°	39.6	39.6	28.8	32.4	43.2	50.5	61.3	61.3	72.1	72.1	68.5
80°	0.0	3.6	10.8	21.6	32.4	46.9	54.1	54.1	61.3	61.3	50.5
82.5°	0.0	3.6	10.8	21.6	28.8	43.2	54.1	54.1	61.3	64.9	54.1
85°	0.0	3.6	10.8	18.0	28.8	36.0	36.0	32.4	25.2	21.6	14.4
87.5°	0.0	0.0	3.6	7.2	3.6	7.2	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531897

CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8	6948.8
2.5°	6981.2	6977.6	6891.1	6750.5	6718.1	6599.2	6584.7	6512.7	6552.3	6419.0	6404.5
5°	6923.5	6880.3	6775.8	6685.7	6422.6	6235.1	6087.4	5907.2	5802.6	5820.7	5752.2
7.5°	7006.4	6894.7	6710.9	6397.3	6076.6	5748.6	5572.0	5204.4	5071.0	4872.8	4843.9
10°	6919.9	6837.0	6552.3	6033.3	5590.0	5117.9	4703.4	4296.1	3986.2	3852.8	3824.0
12.5°	6912.7	6768.6	6292.8	5716.1	5074.6	4397.0	3795.1	3287.0	2980.6	2807.6	2768.0
15°	6801.0	6628.0	6000.9	5226.0	4339.4	3496.0	2840.1	2349.9	2115.6	2014.7	2043.5
17.5°	6811.8	6552.3	5708.9	4707.0	3614.9	2566.1	1939.0	1686.7	1625.5	1650.7	1650.7
20°	6801.0	6382.9	5355.7	4108.7	2768.0	1780.4	1423.6	1333.5	1373.2	1452.5	1434.4
22.5°	6743.3	6303.6	5031.4	3478.0	2036.3	1319.1	1142.5	1146.1	1207.4	1304.7	1326.3
25°	6786.6	6127.0	4620.5	2840.1	1484.9	1052.4	991.1	1016.4	1081.2	1153.3	1167.7
27.5°	6754.1	6000.9	4191.6	2205.7	1084.8	904.6	901.0	929.9	958.7	1012.8	1012.8
30°	6790.2	5885.5	3769.9	1639.9	893.8	828.9	814.5	836.2	865.0	875.8	872.2
32.5°	6923.5	5799.0	3283.4	1225.4	789.3	756.9	756.9	756.9	753.3	767.7	771.3
35°	7215.5	5813.5	2854.5	947.9	720.8	695.6	684.8	670.4	663.2	670.4	674.0
37.5°	7532.6	5806.2	2411.2	807.3	670.4	648.7	623.5	601.9	598.3	605.5	594.7
40°	7673.2	5874.7	2000.3	724.4	623.5	598.3	558.6	540.6	544.2	551.4	544.2
42.5°	7864.2	5896.4	1733.6	659.6	580.3	540.6	515.4	493.8	490.2	501.0	497.4
45°	7860.6	5773.8	1452.5	623.5	540.6	497.4	464.9	446.9	446.9	454.1	457.7
47.5°	8091.3	5755.8	1247.0	591.1	511.8	468.5	428.9	414.5	410.9	410.9	403.7
50°	8628.3	6008.1	1088.4	555.0	475.7	436.1	403.7	385.6	371.2	364.0	360.4
52.5°	9677.1	6793.8	965.9	511.8	436.1	403.7	374.8	360.4	342.4	324.4	320.8
54°	10693.4	7604.7	958.7	475.7	403.7	382.0	356.8	349.6	328.0	302.7	295.5
55°	11151.2	8076.8	983.9	446.9	382.0	367.6	346.0	338.8	317.2	288.3	284.7
57.5°	11529.6	8260.7	969.5	371.2	346.0	342.4	324.4	313.6	288.3	248.7	241.5
60°	9280.6	6246.0	695.6	328.0	317.2	310.0	295.5	288.3	255.9	212.6	209.0
62.5°	5863.9	3593.3	443.3	288.3	277.5	266.7	248.7	241.5	212.6	169.4	158.6
65°	2497.7	1488.5	299.1	255.9	237.9	219.9	205.4	194.6	169.4	126.1	122.5
67.5°	648.7	529.8	248.7	223.5	198.2	173.0	162.2	144.2	115.3	86.5	82.9
70°	291.9	266.7	209.0	187.4	158.6	133.4	118.9	100.9	75.7	57.7	54.1
72.5°	173.0	169.4	158.6	140.6	118.9	100.9	86.5	68.5	50.5	32.4	32.4
75°	108.1	104.5	108.1	97.3	82.9	75.7	64.9	46.9	28.8	14.4	14.4
77.5°	64.9	64.9	64.9	61.3	57.7	57.7	46.9	28.8	14.4	3.6	3.6
80°	50.5	50.5	54.1	50.5	50.5	50.5	39.6	21.6	7.2	0.0	0.0
82.5°	50.5	54.1	61.3	57.7	50.5	43.2	36.0	21.6	7.2	0.0	0.0
85°	14.4	10.8	18.0	25.2	36.0	32.4	25.2	18.0	7.2	0.0	0.0
87.5°	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	3.6	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)