

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: P532833

Luminaire Tested: **GALN-SA8B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532833
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-SA8B-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 22429 lumens
Efficiency: N/A
Efficacy: 69.0 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

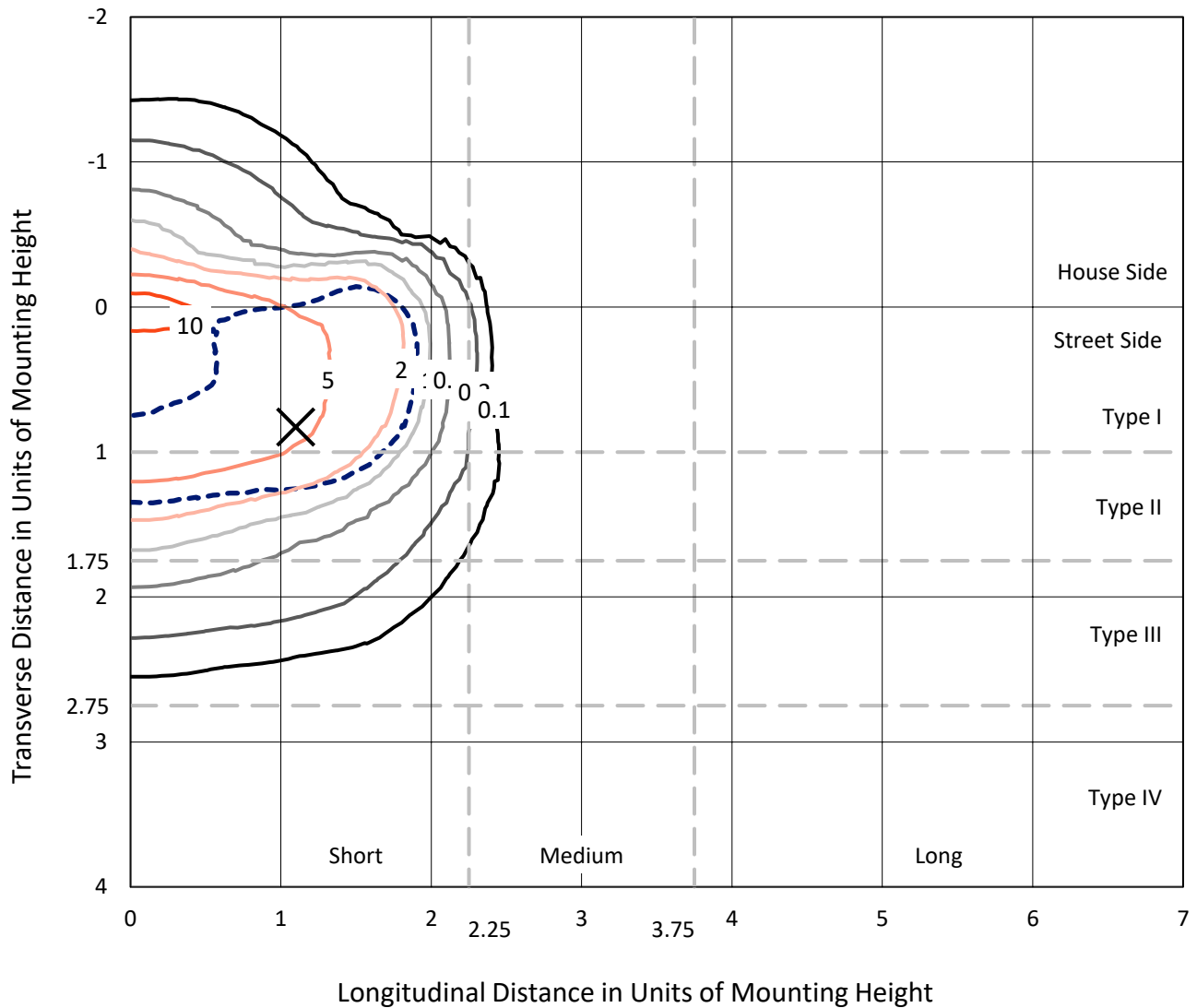
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532833
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Iso-Footcandle Lines of Horizontal Illumination

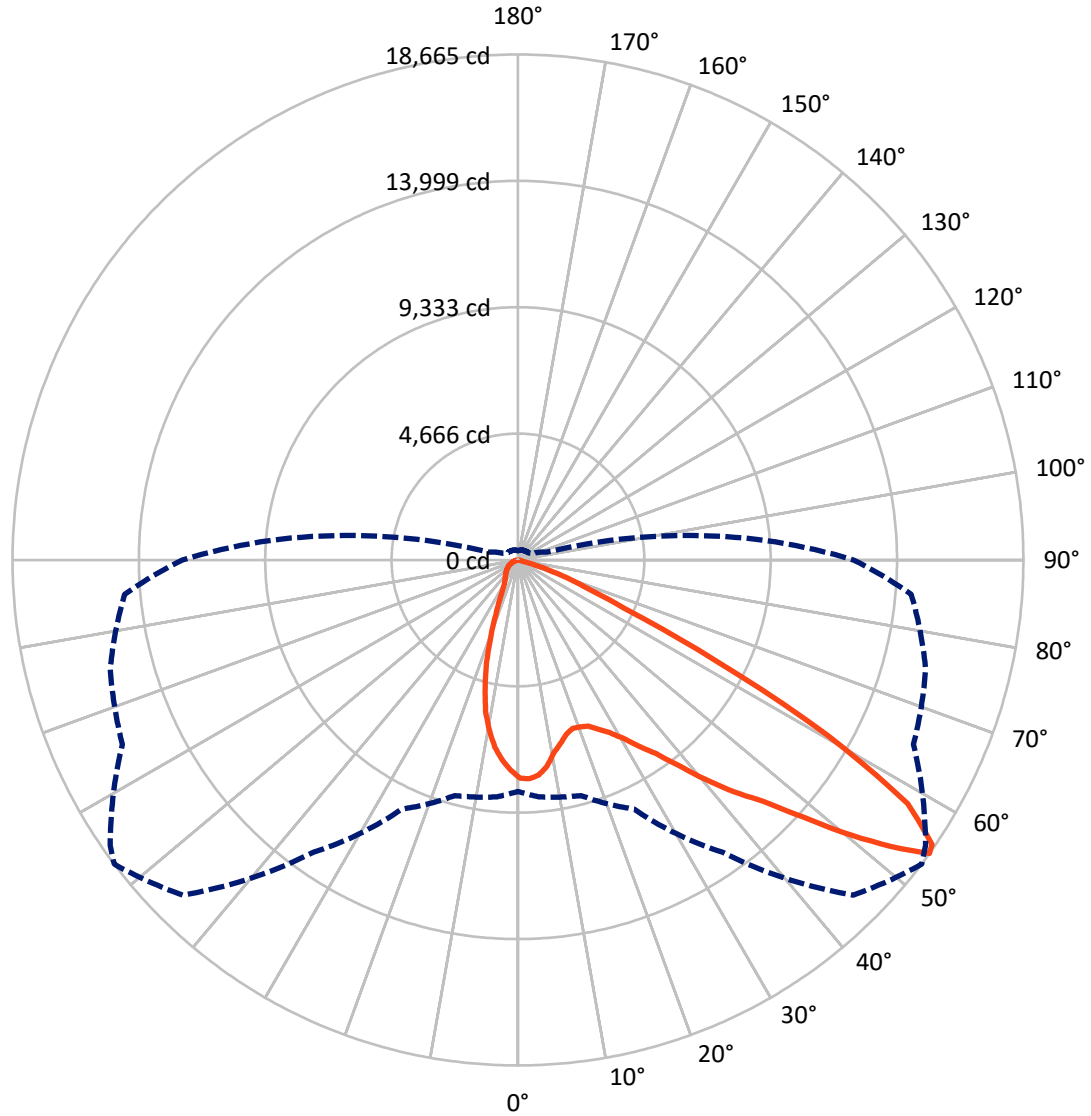
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

REPORT NUMBER: P532833
CATALOG NUMBER: GALN-SA8B-727-U-SL2-GRSBK

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3710.9	0.0	3710.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18718.1	0.0	18718.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	22429.0	0.0	22429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.2	3.1
10°-20°	1584.7	7.1
20°-30°	2252.2	10.0
30°-40°	3475.7	15.5
40°-50°	5449.6	24.3
50°-60°	6330.5	28.2
60°-70°	2392.0	10.7
70°-80°	227.5	1.0
80°-90°	25.6	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°	22429.0	100.0
0°-180°	22429.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532833

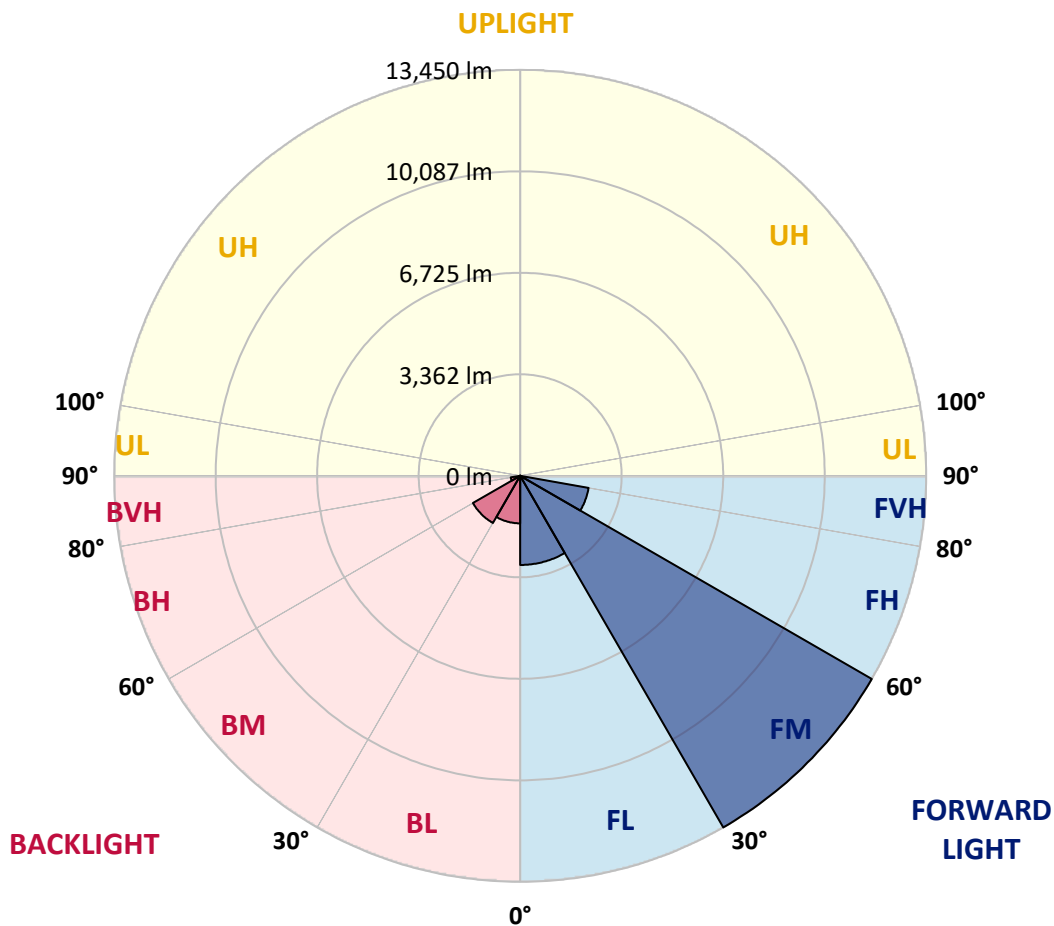
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2953.3	13.2			
FM (30°-60°)	13450.0	60.0			
FH (60°-80°)	2301.6	10.3			G2/5000
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1574.8	7.0	B3/2500		
BM (30°-60°)	1805.8	8.1	B2/2500		
BH (60°-80°)	317.9	1.4	B1/500		G1/500
BVH (80°-90°)	12.4	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: P532833

CATALOG NUMBER: GALN-SA8B-727-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1
2.5°	8014.3	7943.3	8014.3	8022.7	8072.8	8118.8	8089.5	8156.4	8118.8	8077.0	8064.5
5°	7366.7	7462.8	7467.0	7617.4	7583.9	7859.7	7980.9	7947.5	8152.2	8139.7	8110.4
7.5°	6785.9	6748.3	6798.4	6973.9	7195.4	7512.9	7688.4	7684.2	7976.7	8185.7	8164.8
10°	6246.8	6242.7	6347.1	6485.0	6673.0	7007.3	7249.7	7370.8	7826.3	8143.9	8189.8
12.5°	5883.3	5866.6	5979.4	6092.2	6388.9	6648.0	6957.2	7015.7	7538.0	7997.6	8072.8
15°	5645.1	5682.7	5691.1	5908.4	6096.4	6439.0	6681.4	6802.6	7404.3	7880.6	8168.9
17.5°	5603.3	5653.5	5657.7	5837.3	6037.9	6326.2	6539.3	6702.3	7291.5	7939.1	8173.1
20°	5686.9	5657.7	5682.7	5795.6	5991.9	6267.7	6576.9	6631.3	7253.8	7968.4	8219.1
22.5°	5925.1	5916.7	5854.1	5946.0	6083.9	6372.2	6664.7	6748.3	7362.5	8118.8	8256.7
25°	6188.3	6234.3	6175.8	6163.3	6259.4	6543.5	6932.1	7040.7	7726.0	8390.4	8373.7
27.5°	6681.4	6635.4	6635.4	6576.9	6551.9	6689.8	7220.4	7400.1	8131.3	8741.4	8507.4
30°	7153.6	7203.7	7166.1	7187.0	7019.9	7007.3	7629.9	7851.4	8850.0	9276.2	8791.5
32.5°	7901.5	7834.7	7897.3	7843.0	7621.6	7395.9	8185.7	8415.5	9719.2	9890.5	9217.7
35°	8524.1	8494.9	8762.3	8753.9	8394.6	8173.1	8774.8	9117.5	10325.0	10625.9	9719.2
37.5°	9409.9	9355.6	9660.7	9806.9	9485.2	9155.1	9618.9	10015.8	10889.1	11215.1	10233.1
40°	10320.9	10458.7	10868.2	11110.6	10768.0	10329.2	10651.0	10772.1	11265.2	11599.5	10584.1
42.5°	11474.1	11674.7	12092.5	12301.5	12272.2	11795.9	11699.8	11695.6	11536.8	11490.8	10843.2
45°	12581.4	12506.2	13149.7	13605.1	13972.9	13835.0	12711.0	12585.6	11967.2	11653.8	10910.0
47.5°	13066.1	13041.1	13479.8	14290.4	15544.0	15715.3	14181.8	13697.1	12694.2	12339.1	11273.6
50°	12439.3	12568.9	13003.4	13901.8	15823.9	17131.8	15986.9	15335.0	13542.5	13174.8	12134.3
52.5°	10391.9	10479.6	10893.3	12034.0	14871.2	17967.5	17716.8	17340.7	15101.0	14491.0	13634.4
54°	8545.0	8779.0	9004.6	10149.5	13174.8	17503.7	18665.3	18377.0	16116.4	15585.7	14578.7
55°	7441.9	7579.8	7742.7	8883.5	12000.6	16718.1	18556.7	18581.7	16797.5	15928.4	15213.9
57.5°	5436.2	5532.3	5365.2	5870.8	8240.0	13575.9	16973.0	17649.9	17716.8	16442.3	15602.5
60°	4153.4	4195.2	4007.2	4086.6	5122.8	9318.0	13128.8	13943.6	15982.7	14369.8	13216.5
62.5°	3221.6	3230.0	3225.8	3363.7	3530.8	5482.2	8210.7	8933.6	11018.7	10203.9	8975.4
65°	2373.4	2335.8	2402.6	2820.5	3012.7	3447.2	4324.7	4851.2	5987.8	5056.0	3614.4
67.5°	1537.7	1550.2	1617.1	2097.6	2582.3	2645.0	2661.7	2619.9	2624.1	1445.8	906.7
70°	923.4	944.3	923.4	1186.7	1846.9	1897.0	1734.1	1692.3	1320.4	342.6	338.5
72.5°	547.4	518.1	463.8	509.8	768.8	919.3	827.3	823.2	518.1	200.6	200.6
75°	229.8	208.9	171.3	154.6	204.7	196.4	196.4	175.5	137.9	133.7	125.4
77.5°	46.0	46.0	33.4	37.6	50.1	58.5	71.0	71.0	83.6	83.6	79.4
80°	0.0	4.2	12.5	25.1	37.6	54.3	62.7	62.7	71.0	71.0	58.5
82.5°	0.0	4.2	12.5	25.1	33.4	50.1	62.7	62.7	71.0	75.2	62.7
85°	0.0	4.2	12.5	20.9	33.4	41.8	41.8	37.6	29.2	25.1	16.7
87.5°	0.0	0.0	4.2	8.4	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°	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1	8056.1
2.5°	8093.7	8089.5	7989.3	7826.3	7788.7	7650.8	7634.1	7550.5	7596.5	7441.9	7425.2
5°	8026.9	7976.7	7855.6	7751.1	7446.1	7228.8	7057.5	6848.5	6727.4	6748.3	6668.9
7.5°	8123.0	7993.4	7780.3	7416.8	7044.9	6664.7	6459.9	6033.7	5879.1	5649.3	5615.9
10°	8022.7	7926.6	7596.5	6994.8	6480.8	5933.4	5452.9	4980.8	4621.4	4466.8	4433.4
12.5°	8014.3	7847.2	7295.6	6627.1	5883.3	5097.8	4399.9	3810.8	3455.6	3255.0	3209.1
15°	7884.8	7684.2	6957.2	6058.8	5030.9	4053.1	3292.6	2724.4	2452.8	2335.8	2369.2
17.5°	7897.3	7596.5	6618.7	5457.1	4191.0	2975.1	2248.0	1955.5	1884.5	1913.7	1913.7
20°	7884.8	7400.1	6209.2	4763.5	3209.1	2064.2	1650.5	1546.0	1592.0	1683.9	1663.0
22.5°	7817.9	7308.2	5833.2	4032.2	2360.8	1529.3	1324.6	1328.8	1399.8	1512.6	1537.7
25°	7868.1	7103.4	5356.8	3292.6	1721.5	1220.1	1149.1	1178.3	1253.5	1337.1	1353.8
27.5°	7830.5	6957.2	4859.6	2557.2	1257.7	1048.8	1044.6	1078.0	1111.5	1174.2	1174.2
30°	7872.3	6823.5	4370.7	1901.2	1036.3	961.1	944.3	969.4	1002.8	1015.4	1011.2
32.5°	8026.9	6723.2	3806.6	1420.7	915.1	877.5	877.5	877.5	873.3	890.0	894.2
35°	8365.3	6739.9	3309.4	1098.9	835.7	806.4	793.9	777.2	768.8	777.2	781.4
37.5°	8733.0	6731.5	2795.4	936.0	777.2	752.1	722.9	697.8	693.6	702.0	689.4
40°	8896.0	6810.9	2319.1	839.9	722.9	693.6	647.7	626.8	631.0	639.3	631.0
42.5°	9117.5	6836.0	2009.9	764.7	672.7	626.8	597.5	572.5	568.3	580.8	576.6
45°	9113.3	6693.9	1683.9	722.9	626.8	576.6	539.0	518.1	518.1	526.5	530.7
47.5°	9380.7	6673.0	1445.8	685.3	593.3	543.2	497.2	480.5	476.3	476.3	468.0
50°	10003.3	6965.5	1261.9	643.5	551.6	505.6	468.0	447.1	430.4	422.0	417.8
52.5°	11219.2	7876.4	1119.8	593.3	505.6	468.0	434.6	417.8	397.0	376.1	371.9
54°	12397.6	8816.6	1111.5	551.6	468.0	442.9	413.7	405.3	380.2	351.0	342.6
55°	12928.2	9364.0	1140.7	518.1	442.9	426.2	401.1	392.8	367.7	334.3	330.1
57.5°	13367.0	9577.1	1124.0	430.4	401.1	397.0	376.1	363.5	334.3	288.3	280.0
60°	10759.6	7241.3	806.4	380.2	367.7	359.3	342.6	334.3	296.7	246.5	242.4
62.5°	6798.4	4165.9	514.0	334.3	321.7	309.2	288.3	280.0	246.5	196.4	183.9
65°	2895.7	1725.7	346.8	296.7	275.8	254.9	238.2	225.6	196.4	146.2	142.1
67.5°	752.1	614.2	288.3	259.1	229.8	200.6	188.0	167.1	133.7	100.3	96.1
70°	338.5	309.2	242.4	217.3	183.9	154.6	137.9	117.0	87.7	66.9	62.7
72.5°	200.6	196.4	183.9	163.0	137.9	117.0	100.3	79.4	58.5	37.6	37.6
75°	125.4	121.2	125.4	112.8	96.1	87.7	75.2	54.3	33.4	16.7	16.7
77.5°	75.2	75.2	75.2	71.0	66.9	66.9	54.3	33.4	16.7	4.2	4.2
80°	58.5	58.5	62.7	58.5	58.5	58.5	46.0	25.1	8.4	0.0	0.0
82.5°	58.5	62.7	71.0	66.9	58.5	50.1	41.8	25.1	8.4	0.0	0.0
85°	16.7	12.5	20.9	29.2	41.8	37.6	29.2	20.9	8.4	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	4.2	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)