

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: P533223

Luminaire Tested: **GALN-SA8C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533223
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-SA8C-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA 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: 24359 lumens
Efficiency: N/A
Efficacy: 56.8 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

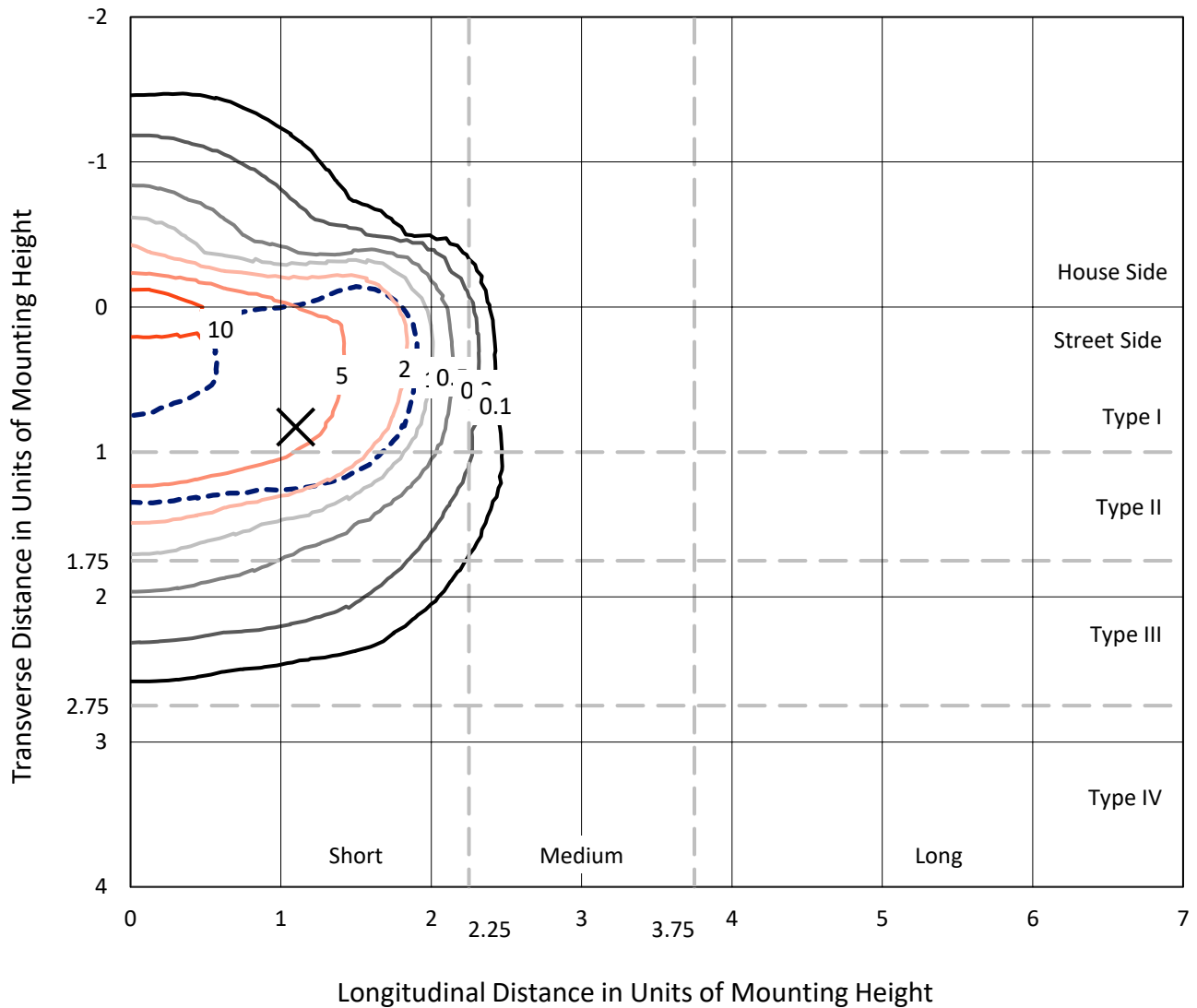
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533223
 CATALOG NUMBER: GALN-SA8C-827-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

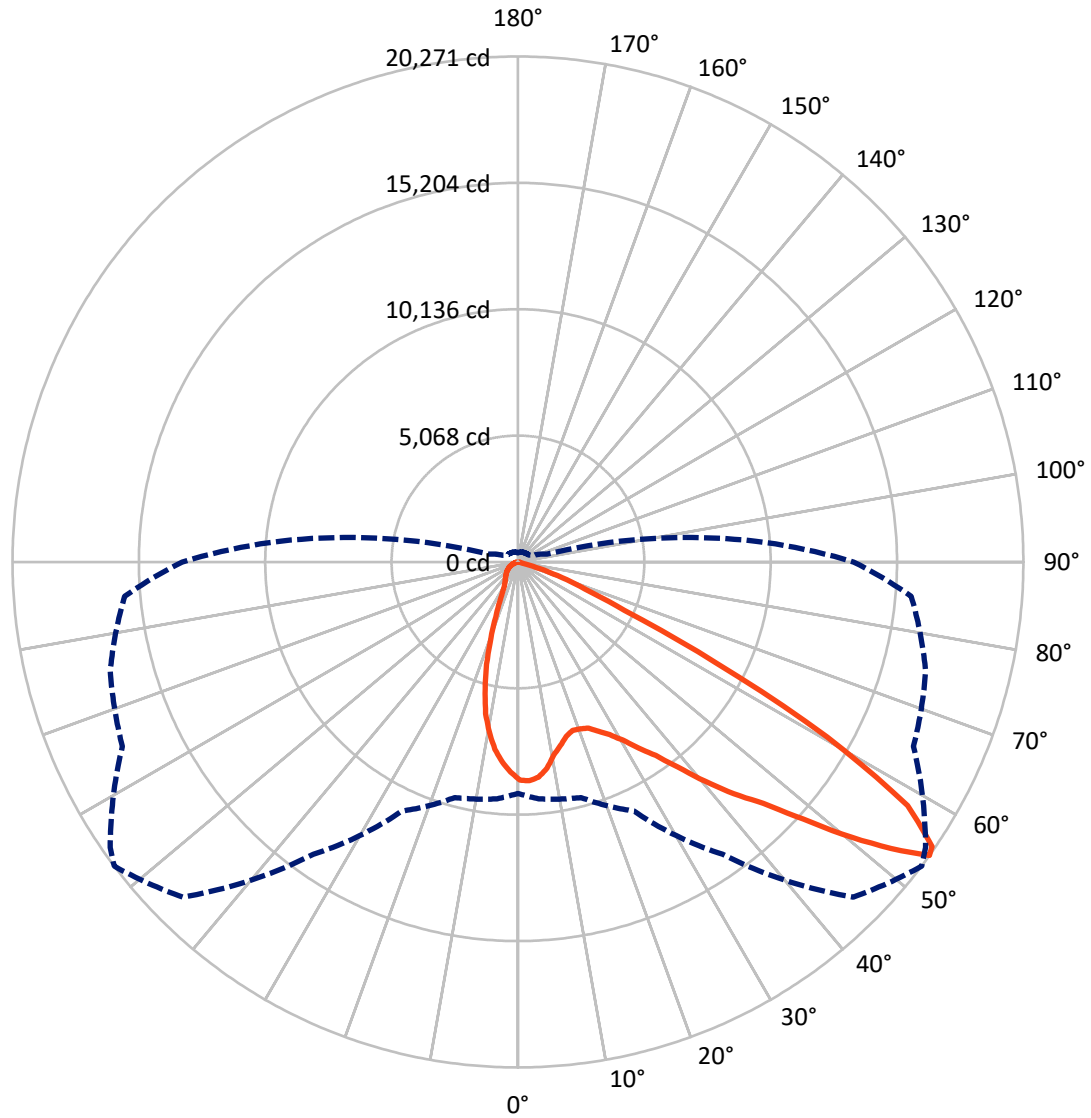
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

REPORT NUMBER: P533223
CATALOG NUMBER: GALN-SA8C-827-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	4030.3	0.0	4030.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20328.7	0.0	20328.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	24359.0	0.0	24359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.7	3.1
10°-20°	1721.1	7.1
20°-30°	2446.0	10.0
30°-40°	3774.8	15.5
40°-50°	5918.5	24.3
50°-60°	6875.2	28.2
60°-70°	2597.9	10.7
70°-80°	247.0	1.0
80°-90°	27.8	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°	24359.0	100.0
0°-180°	24359.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533223

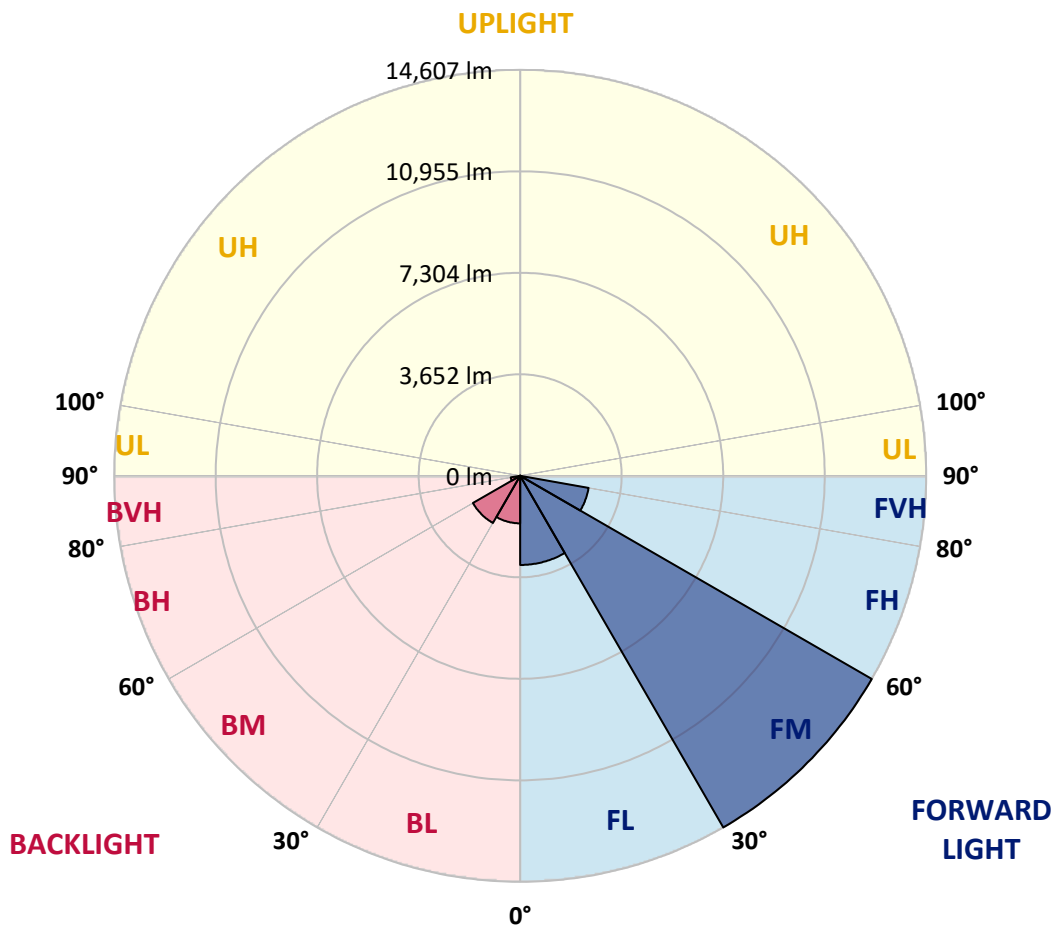
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3207.4	13.2			
FM (30°-60°)	14607.3	60.0			
FH (60°-80°)	2499.6	10.3			G2/5000
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1710.3	7.0	B3/2500		
BM (30°-60°)	1961.2	8.1	B2/2500		
BH (60°-80°)	345.3	1.4	B1/500		G1/500
BVH (80°-90°)	13.4	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: P533223

CATALOG NUMBER: GALN-SA8C-827-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3
2.5°	8704.0	8626.8	8704.0	8713.0	8767.5	8817.4	8785.6	8858.3	8817.4	8772.0	8758.4
5°	8000.6	8104.9	8109.5	8272.8	8236.5	8536.1	8667.7	8631.4	8853.7	8840.1	8808.3
7.5°	7369.8	7328.9	7383.4	7574.0	7814.5	8159.4	8350.0	8345.5	8663.1	8890.0	8867.3
10°	6784.4	6779.8	6893.3	7043.0	7247.3	7610.3	7873.5	8005.1	8499.7	8844.6	8894.6
12.5°	6389.6	6371.4	6493.9	6616.5	6938.7	7220.0	7555.8	7619.4	8186.6	8685.8	8767.5
15°	6130.9	6171.7	6180.8	6416.8	6621.0	6993.1	7256.3	7387.9	8041.4	8558.7	8871.9
17.5°	6085.5	6140.0	6144.5	6339.6	6557.5	6870.6	7102.0	7279.0	7918.9	8622.3	8876.4
20°	6176.3	6144.5	6171.7	6294.3	6507.6	6807.1	7142.9	7201.9	7878.0	8654.0	8926.3
22.5°	6434.9	6425.9	6357.8	6457.6	6607.4	6920.5	7238.2	7328.9	7996.0	8817.4	8967.2
25°	6720.8	6770.8	6707.2	6693.6	6798.0	7106.6	7528.6	7646.6	8390.8	9112.4	9094.2
27.5°	7256.3	7206.4	7206.4	7142.9	7115.6	7265.4	7841.7	8036.9	8831.0	9493.6	9239.5
30°	7769.1	7823.6	7782.7	7805.4	7623.9	7610.3	8286.5	8527.0	9611.6	10074.4	9548.0
32.5°	8581.4	8508.8	8576.9	8517.9	8277.4	8032.3	8890.0	9139.6	10555.5	10741.5	10010.9
35°	9257.6	9225.8	9516.3	9507.2	9116.9	8876.4	9529.9	9902.0	11213.5	11540.2	10555.5
37.5°	10219.7	10160.7	10491.9	10650.8	10301.4	9942.8	10446.6	10877.7	11826.1	12180.1	11113.7
40°	11209.0	11358.7	11803.4	12066.6	11694.5	11218.0	11567.5	11699.1	12234.6	12597.6	11494.9
42.5°	12461.5	12679.3	13133.1	13360.0	13328.2	12810.9	12706.5	12702.0	12529.5	12479.6	11776.2
45°	13664.0	13582.4	14281.2	14775.9	15175.2	15025.5	13804.7	13668.6	12996.9	12656.6	11848.8
47.5°	14190.5	14163.2	14639.7	15520.1	16881.5	17067.6	15402.1	14875.7	13786.6	13400.8	12243.6
50°	13509.7	13650.4	14122.4	15098.1	17185.6	18606.0	17362.5	16654.6	14707.8	14308.4	13178.5
52.5°	11286.1	11381.4	11830.7	13069.6	16150.9	19513.6	19241.3	18832.9	16400.5	15737.9	14807.6
54°	9280.3	9534.4	9779.5	11022.9	14308.4	19009.9	20271.4	19958.3	17503.2	16926.9	15833.2
55°	8082.3	8232.0	8409.0	9647.9	13033.3	18156.7	20153.4	20180.7	18242.9	17299.0	16523.0
57.5°	5904.0	6008.4	5826.8	6375.9	8949.0	14744.1	18433.5	19168.7	19241.3	17857.2	16945.0
60°	4510.8	4556.2	4352.0	4438.2	5563.6	10119.8	14258.5	15143.4	17358.0	15606.3	14353.8
62.5°	3498.8	3507.9	3503.4	3653.1	3834.6	5953.9	8917.2	9702.3	11966.8	11081.9	9747.7
65°	2577.6	2536.8	2609.4	3063.2	3271.9	3743.9	4696.9	5268.7	6503.0	5491.0	3925.4
67.5°	1670.0	1683.6	1756.2	2278.1	2804.5	2872.6	2890.7	2845.4	2849.9	1570.2	984.8
70°	1002.9	1025.6	1002.9	1288.8	2005.8	2060.3	1883.3	1837.9	1434.0	372.1	367.6
72.5°	594.5	562.7	503.7	553.6	835.0	998.4	898.5	894.0	562.7	217.8	217.8
75°	249.6	226.9	186.1	167.9	222.4	213.3	213.3	190.6	149.8	145.2	136.1
77.5°	49.9	49.9	36.3	40.8	54.5	63.5	77.1	77.1	90.8	90.8	86.2
80°	0.0	4.5	13.6	27.2	40.8	59.0	68.1	68.1	77.1	77.1	63.5
82.5°	0.0	4.5	13.6	27.2	36.3	54.5	68.1	68.1	77.1	81.7	68.1
85°	0.0	4.5	13.6	22.7	36.3	45.4	45.4	40.8	31.8	27.2	18.2
87.5°	0.0	0.0	4.5	9.1	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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°	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3	8749.3
2.5°	8790.2	8785.6	8676.7	8499.7	8458.9	8309.2	8291.0	8200.2	8250.2	8082.3	8064.1
5°	8717.6	8663.1	8531.5	8418.1	8086.8	7850.8	7664.8	7437.8	7306.2	7328.9	7242.7
7.5°	8822.0	8681.3	8449.8	8055.0	7651.1	7238.2	7015.8	6552.9	6385.0	6135.4	6099.1
10°	8713.0	8608.7	8250.2	7596.7	7038.5	6444.0	5922.1	5409.3	5019.1	4851.2	4814.9
12.5°	8704.0	8522.4	7923.4	7197.3	6389.6	5536.4	4778.6	4138.7	3753.0	3535.1	3485.2
15°	8563.3	8345.5	7555.8	6580.2	5463.8	4401.9	3576.0	2958.8	2663.8	2536.8	2573.1
17.5°	8576.9	8250.2	7188.3	5926.7	4551.7	3231.1	2441.5	2123.8	2046.7	2078.4	2078.4
20°	8563.3	8036.9	6743.5	5173.4	3485.2	2241.8	1792.5	1679.1	1729.0	1828.8	1806.1
22.5°	8490.7	7937.0	6335.1	4379.2	2564.0	1660.9	1438.6	1443.1	1520.2	1642.8	1670.0
25°	8545.1	7714.7	5817.8	3576.0	1869.7	1325.1	1248.0	1279.7	1361.4	1452.2	1470.3
27.5°	8504.3	7555.8	5277.7	2777.3	1366.0	1139.0	1134.5	1170.8	1207.1	1275.2	1275.2
30°	8549.7	7410.6	4746.8	2064.8	1125.4	1043.7	1025.6	1052.8	1089.1	1102.7	1098.2
32.5°	8717.6	7301.7	4134.2	1542.9	993.8	953.0	953.0	953.0	948.5	966.6	971.1
35°	9085.2	7319.9	3594.1	1193.5	907.6	875.8	862.2	844.1	835.0	844.1	848.6
37.5°	9484.5	7310.8	3035.9	1016.5	844.1	816.8	785.1	757.9	753.3	762.4	748.8
40°	9661.5	7397.0	2518.6	912.1	785.1	753.3	703.4	680.7	685.2	694.3	685.2
42.5°	9902.0	7424.2	2182.8	830.5	730.6	680.7	648.9	621.7	617.2	630.8	626.2
45°	9897.5	7269.9	1828.8	785.1	680.7	626.2	585.4	562.7	562.7	571.8	576.3
47.5°	10187.9	7247.3	1570.2	744.2	644.4	589.9	540.0	521.9	517.3	517.3	508.3
50°	10864.1	7564.9	1370.5	698.9	599.0	549.1	508.3	485.6	467.4	458.3	453.8
52.5°	12184.6	8554.2	1216.2	644.4	549.1	508.3	472.0	453.8	431.1	408.4	403.9
54°	13464.4	9575.3	1207.1	599.0	508.3	481.0	449.3	440.2	413.0	381.2	372.1
55°	14040.7	10169.7	1238.9	562.7	481.0	462.9	435.7	426.6	399.3	363.0	358.5
57.5°	14517.2	10401.2	1220.7	467.4	435.7	431.1	408.4	394.8	363.0	313.1	304.0
60°	11685.5	7864.4	875.8	413.0	399.3	390.3	372.1	363.0	322.2	267.7	263.2
62.5°	7383.4	4524.4	558.2	363.0	349.4	335.8	313.1	304.0	267.7	213.3	199.7
65°	3144.9	1874.2	376.7	322.2	299.5	276.8	258.7	245.1	213.3	158.8	154.3
67.5°	816.8	667.1	313.1	281.4	249.6	217.8	204.2	181.5	145.2	108.9	104.4
70°	367.6	335.8	263.2	236.0	199.7	167.9	149.8	127.1	95.3	72.6	68.1
72.5°	217.8	213.3	199.7	177.0	149.8	127.1	108.9	86.2	63.5	40.8	40.8
75°	136.1	131.6	136.1	122.5	104.4	95.3	81.7	59.0	36.3	18.2	18.2
77.5°	81.7	81.7	81.7	77.1	72.6	72.6	59.0	36.3	18.2	4.5	4.5
80°	63.5	63.5	68.1	63.5	63.5	63.5	49.9	27.2	9.1	0.0	0.0
82.5°	63.5	68.1	77.1	72.6	63.5	54.5	45.4	27.2	9.1	0.0	0.0
85°	18.2	13.6	22.7	31.8	45.4	40.8	31.8	22.7	9.1	0.0	0.0
87.5°	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	4.5	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)