

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: P456840

Luminaire Tested: **GALN-SA8A-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26907 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

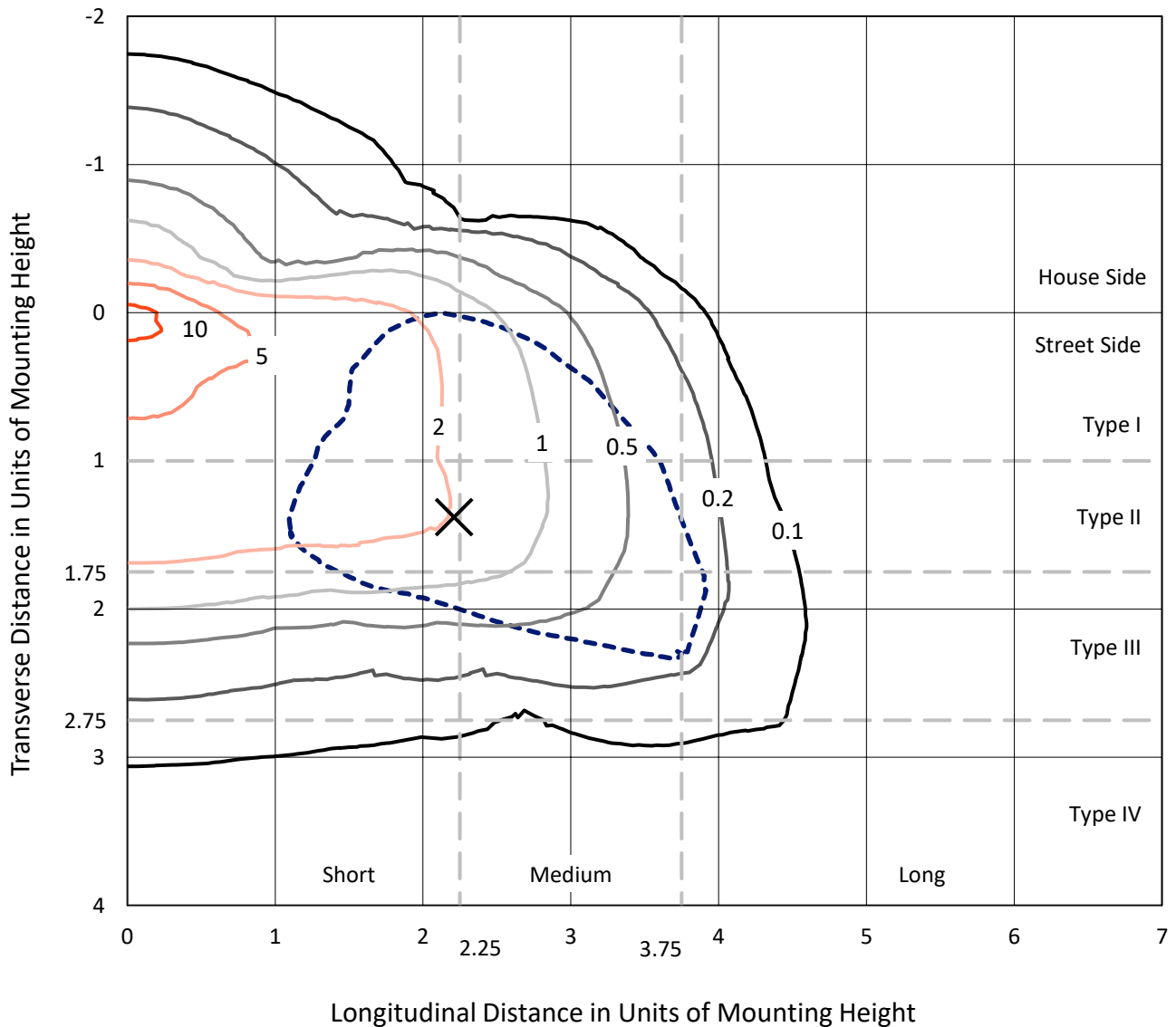
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456840
 CATALOG NUMBER: GALN-SA8A-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

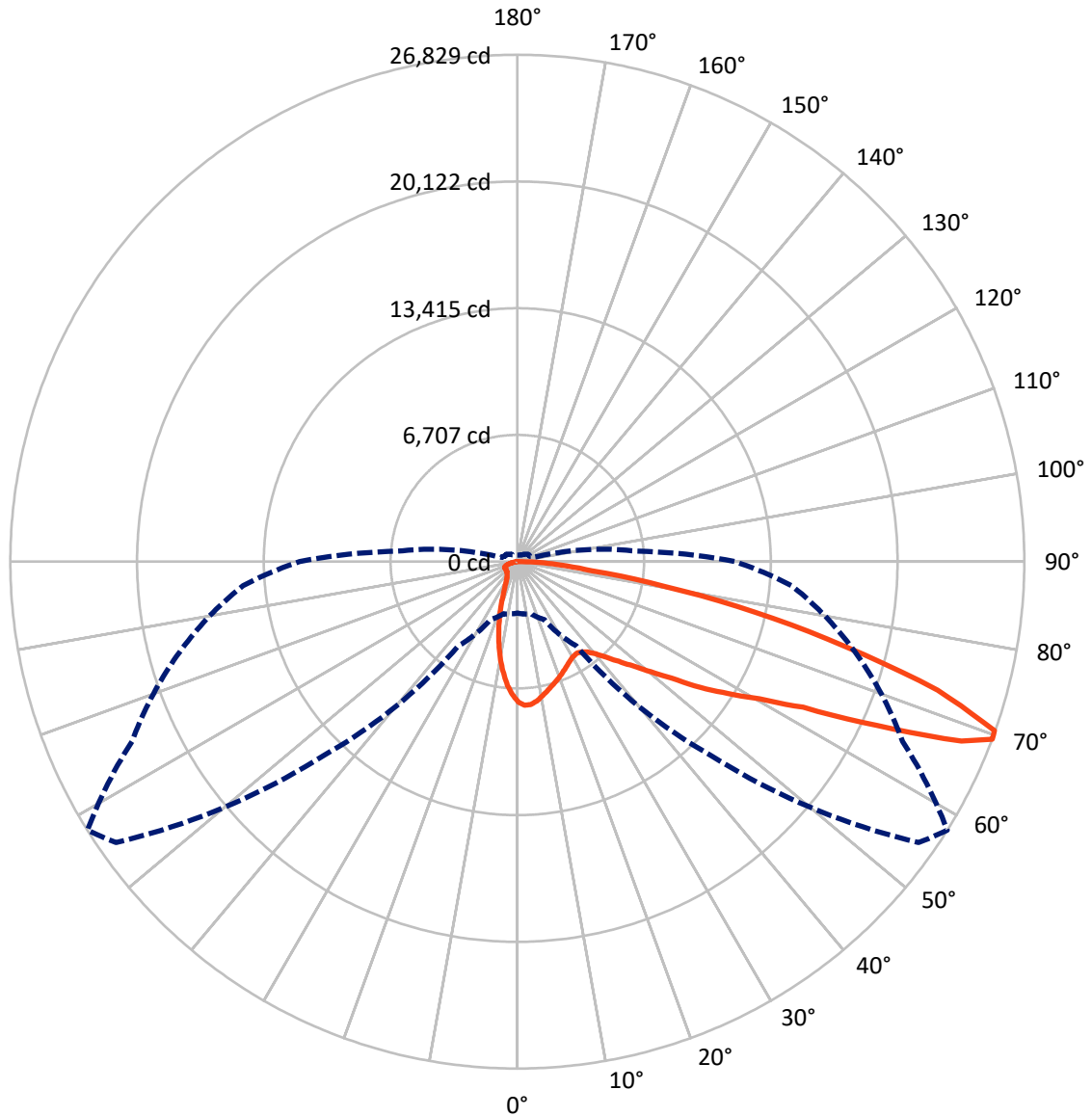
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

REPORT NUMBER: P456840
CATALOG NUMBER: GALN-SA8A-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P456840

CATALOG NUMBER: GALN-SA8A-827-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3943.2	0.0	3943.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22963.8	0.0	22963.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	26907.0	0.0	26907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.5	2.3
10°-20°	1386.6	5.2
20°-30°	1791.5	6.7
30°-40°	2326.8	8.6
40°-50°	3382.8	12.6
50°-60°	5397.8	20.1
60°-70°	7210.8	26.8
70°-80°	4156.7	15.4
80°-90°	622.6	2.3
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°	26907.0	100.0
0°-180°	26907.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456840

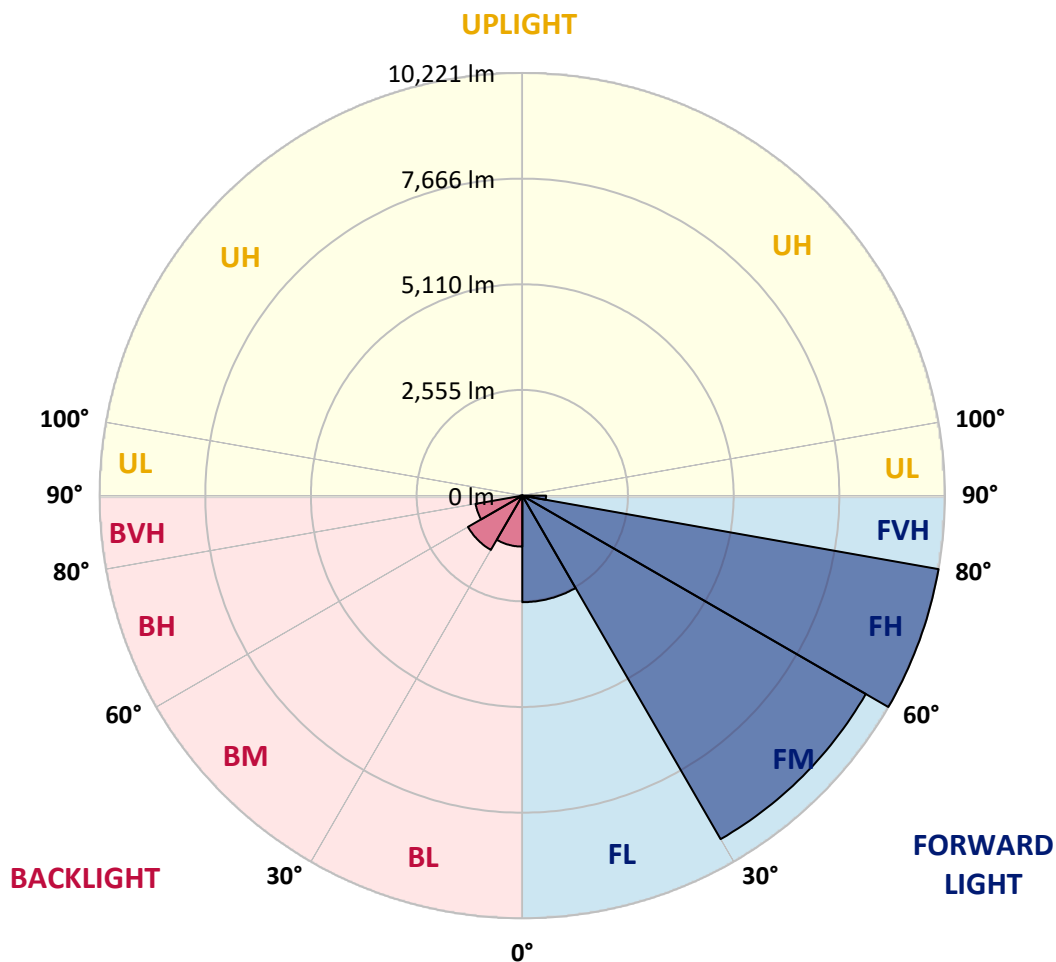
CATALOG NUMBER: GALN-SA8A-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.0	9.6			
FM	(30°-60°)	9590.9	35.6			
FH	(60°-80°)	10220.9	38.0			G4/12000
FVH	(80°-90°)	574.9	2.1			G4/750
BL	(0°-30°)	1232.5	4.6	B3/2500		
BM	(30°-60°)	1516.4	5.6	B2/2500		
BH	(60°-80°)	1146.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	47.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P456840

CATALOG NUMBER: GALN-SA8A-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5
2.5°	7711.6	7732.6	7726.6	7719.1	7707.1	7674.1	7620.1	7611.1	7576.6	7503.0	7411.5
5°	7593.1	7611.1	7612.6	7623.1	7638.1	7632.1	7593.1	7588.6	7537.6	7438.5	7285.5
7.5°	7186.4	7210.4	7262.9	7321.5	7374.0	7423.5	7435.5	7443.0	7411.5	7297.5	7093.4
10°	6728.7	6752.7	6776.8	6863.8	6992.8	7115.9	7217.9	7231.4	7238.9	7133.9	6884.8
12.5°	6221.5	6271.0	6322.1	6451.1	6623.7	6817.3	6997.3	7025.9	7076.9	6997.3	6704.7
15°	5790.9	5841.9	5915.4	6030.9	6239.5	6518.6	6772.3	6818.8	6919.3	6878.8	6536.7
17.5°	5492.2	5510.2	5561.3	5693.3	5918.4	6212.5	6551.7	6644.7	6805.3	6794.8	6392.6
20°	5256.6	5279.1	5310.7	5391.7	5625.8	5936.4	6346.1	6466.1	6683.7	6719.7	6250.0
22.5°	5157.6	5174.1	5169.6	5213.1	5372.2	5684.3	6137.5	6280.1	6575.7	6668.7	6118.0
25°	5163.6	5178.6	5156.1	5145.6	5240.1	5462.2	5919.9	6101.5	6488.6	6634.2	5997.9
27.5°	5264.1	5274.6	5232.6	5190.6	5198.1	5324.2	5739.8	5940.9	6415.1	6649.2	5897.4
30°	5399.2	5418.7	5391.7	5340.7	5285.1	5291.1	5624.3	5822.4	6380.6	6701.7	5849.4
32.5°	5573.3	5591.3	5579.3	5538.7	5466.7	5387.2	5595.8	5778.8	6383.6	6808.3	5838.9
35°	5756.3	5792.4	5811.9	5808.9	5750.3	5612.3	5708.3	5859.9	6455.6	6986.8	5900.4
37.5°	5963.4	5993.4	6077.5	6131.5	6077.5	5916.9	5961.9	6067.0	6614.7	7244.9	6035.5
40°	6164.5	6209.5	6332.6	6500.6	6479.6	6338.6	6349.1	6418.1	6895.3	7629.1	6299.6
42.5°	6374.6	6428.6	6643.2	6892.3	6941.8	6832.3	6860.8	6922.3	7294.5	8161.8	6752.7
45°	6644.7	6709.2	6973.3	7284.0	7479.0	7411.5	7492.5	7522.6	7828.7	8855.1	7350.0
47.5°	6992.8	7067.9	7393.5	7780.7	8056.8	8118.3	8259.4	8241.3	8490.4	9675.9	8124.3
50°	7579.6	7621.6	7929.2	8323.9	8703.5	8981.1	9134.2	9162.7	9311.3	10474.3	8990.2
52.5°	8277.4	8314.9	8537.0	8882.1	9357.8	9946.0	10324.2	10231.2	10267.2	11446.6	10003.1
55°	9062.2	9125.2	9266.3	9495.9	10112.6	10978.5	11737.8	11760.3	11361.1	12377.0	10974.0
57.5°	9669.9	9776.5	10018.1	10345.2	11127.0	12126.4	13146.8	13161.8	12651.6	13370.4	12045.4
60°	9363.8	9489.9	10042.1	10838.9	12458.1	14129.7	14830.5	14745.0	13907.6	14501.9	13352.4
62.5°	8043.3	8065.8	8868.6	10114.1	12867.7	16809.8	17336.5	16974.9	15583.8	15936.5	14680.5
65°	5205.6	5352.7	5988.9	7734.1	11521.7	18296.9	21727.3	20891.5	17933.8	17564.6	15792.4
67.5°	3286.3	3248.8	3512.9	4416.3	7924.7	16986.9	25474.3	25342.3	21007.0	18592.6	15526.8
69°	2725.1	2767.1	2857.2	3385.4	5453.2	14503.4	25917.0	26829.4	22497.1	18511.5	14561.9
70°	2471.5	2491.0	2585.5	3001.2	4207.7	12147.4	25190.7	26788.9	23082.4	18172.4	13862.6
72.5°	1961.3	1959.8	2121.9	2497.0	3145.3	6934.3	20684.4	23257.9	22428.1	16593.7	11454.2
75°	1490.1	1514.1	1692.7	2112.9	2897.7	3789.0	14434.4	17911.3	17912.8	13106.3	7147.4
77.5°	1074.4	1089.4	1298.0	1773.7	2729.6	3071.7	9614.4	12846.7	12076.9	6005.4	2246.4
80°	703.8	712.8	871.9	1404.6	2461.0	2897.7	5700.8	7863.2	5696.3	1593.6	742.8
82.5°	385.7	430.7	532.7	909.4	1974.8	2677.1	3464.9	3979.6	2136.9	709.8	387.2
85°	193.6	205.6	300.1	531.2	1290.5	2214.9	2413.0	2282.4	1102.9	352.6	201.1
87.5°	57.0	72.0	124.6	205.6	523.7	1154.0	1343.0	1205.0	424.7	127.6	42.0
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: P456840
 CATALOG NUMBER: GALN-SA8A-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5	7435.5
2.5°	7374.0	7347.0	7226.9	7118.9	7019.9	6914.8	6826.3	6748.2	6755.7	6757.2	6677.7
5°	7205.9	7144.4	6916.3	6703.2	6523.1	6295.1	6100.0	5973.9	5910.9	5826.9	5856.9
7.5°	6977.8	6859.3	6542.7	6188.5	5856.9	5561.3	5240.1	5019.5	4878.5	4741.9	4759.9
10°	6742.2	6551.7	6091.0	5622.8	5193.6	4720.9	4311.3	3960.1	3699.0	3601.5	3536.9
12.5°	6500.6	6250.0	5664.8	5042.0	4449.3	3883.6	3302.8	2926.2	2638.1	2485.0	2504.5
15°	6280.1	5975.4	5220.6	4461.3	3691.5	3017.7	2438.5	2079.8	1878.8	1836.7	1860.8
17.5°	6076.0	5676.8	4805.0	3897.1	2998.2	2262.9	1832.2	1629.7	1548.6	1526.1	1524.6
20°	5865.9	5423.2	4338.3	3293.8	2336.4	1754.2	1503.6	1409.1	1394.1	1403.1	1404.6
22.5°	5652.8	5109.6	3858.1	2695.1	1860.8	1434.6	1314.5	1289.0	1301.0	1322.0	1325.0
25°	5456.2	4833.5	3395.9	2169.9	1485.6	1260.5	1202.0	1202.0	1229.0	1260.5	1262.0
27.5°	5294.1	4566.4	2935.2	1722.7	1244.0	1134.5	1115.0	1125.5	1163.0	1187.0	1188.5
30°	5160.6	4317.3	2500.0	1380.6	1093.9	1033.9	1029.4	1047.4	1074.4	1096.9	1098.4
32.5°	5060.1	4098.2	2093.4	1160.0	990.4	957.4	955.9	969.4	984.4	990.4	996.4
35°	5021.0	3916.6	1721.2	1020.4	921.4	900.4	900.4	898.9	904.9	907.9	910.9
37.5°	5052.6	3777.0	1433.1	930.4	870.4	855.3	846.3	837.3	834.3	834.3	835.8
40°	5186.1	3703.5	1218.5	871.9	834.3	811.8	795.3	784.8	774.3	777.3	780.3
42.5°	5469.7	3717.0	1072.9	832.8	802.8	771.3	747.3	735.3	727.8	736.8	735.3
45°	5921.4	3852.1	979.9	805.8	771.3	730.8	708.3	696.3	696.3	709.8	714.3
47.5°	6553.2	4110.2	930.4	784.8	747.3	699.3	676.8	667.8	670.8	693.3	694.8
50°	7324.5	4558.9	921.4	774.3	735.3	676.8	651.3	642.3	649.8	673.8	676.8
52.5°	8175.3	5136.6	964.9	775.8	724.8	663.3	630.3	616.8	624.3	643.8	649.8
55°	9183.7	5859.9	1077.4	781.8	709.8	655.8	615.2	585.2	594.2	607.7	609.2
57.5°	10213.1	6772.3	1275.5	783.3	697.8	642.3	589.7	550.7	550.7	559.7	564.2
60°	11470.7	7765.7	1536.6	784.8	699.3	622.8	555.2	511.7	505.7	510.2	511.7
62.5°	12719.2	8597.0	1580.1	780.3	714.3	603.2	517.7	472.7	462.2	460.7	457.7
65°	13269.9	8442.4	1295.0	759.3	730.8	591.2	487.7	435.2	417.2	411.2	411.2
67.5°	12372.5	7141.4	973.9	730.8	720.3	579.2	459.2	403.7	382.7	370.7	370.7
69°	11529.2	6352.1	874.9	711.3	693.3	559.7	441.2	387.2	361.6	348.1	343.6
70°	10877.9	5808.9	832.8	694.8	667.8	537.2	427.7	375.2	346.6	331.6	328.6
72.5°	8681.0	4557.4	729.3	631.8	568.7	451.7	379.7	337.6	310.6	294.1	289.6
75°	5003.0	2470.0	604.7	549.2	457.7	351.1	321.1	294.1	273.1	258.1	253.6
77.5°	1539.6	954.4	438.2	433.7	336.1	271.6	256.6	246.1	231.1	214.6	211.6
80°	648.3	486.2	297.1	292.6	223.6	189.1	184.6	183.1	177.1	163.6	159.1
82.5°	355.6	274.6	207.1	180.1	135.1	109.5	114.0	115.5	111.0	97.5	88.5
85°	174.1	150.1	100.5	81.0	61.5	39.0	37.5	45.0	42.0	30.0	33.0
87.5°	34.5	42.0	27.0	12.0	6.0	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)