

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: P648149

Luminaire Tested: **GALN-SA9A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648149  
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-SA9A-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA 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: 18947.8 lumens  
Efficiency: N/A  
Efficacy: 69.2 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

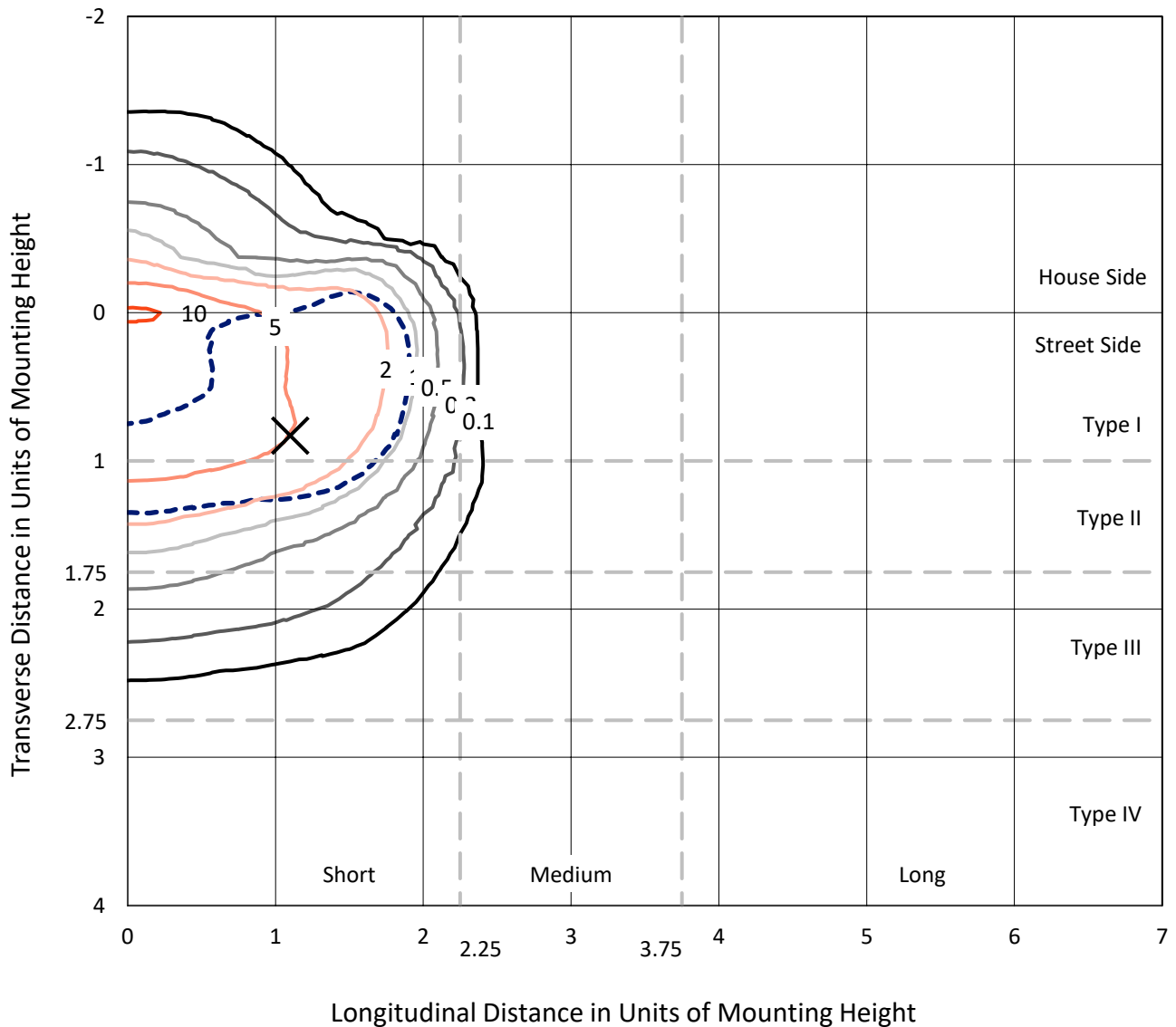
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA9A-835-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

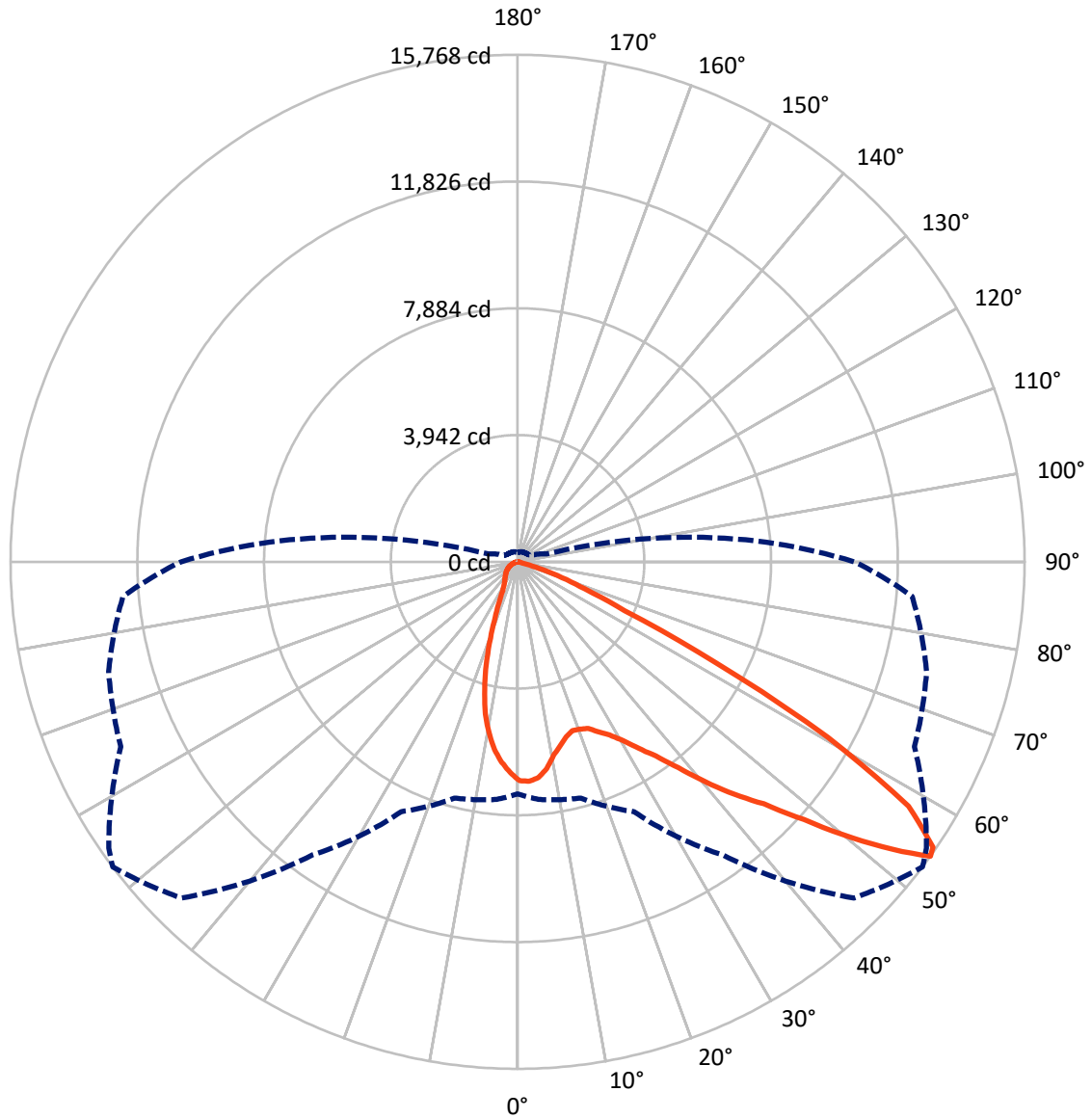
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9A-835-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
<b>House Side</b>	Lumens	3135.0	0.0	3135.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15812.8	0.0	15812.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	18947.8	0.0	18947.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	583.9	3.1
10°-20°	1338.7	7.1
20°-30°	1902.6	10.0
30°-40°	2936.3	15.5
40°-50°	4603.8	24.3
50°-60°	5347.9	28.2
60°-70°	2020.8	10.7
70°-80°	192.2	1.0
80°-90°	21.6	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°	18947.8	100.0
0°-180°	18947.8	100.0

**Coefficient of Utilization**



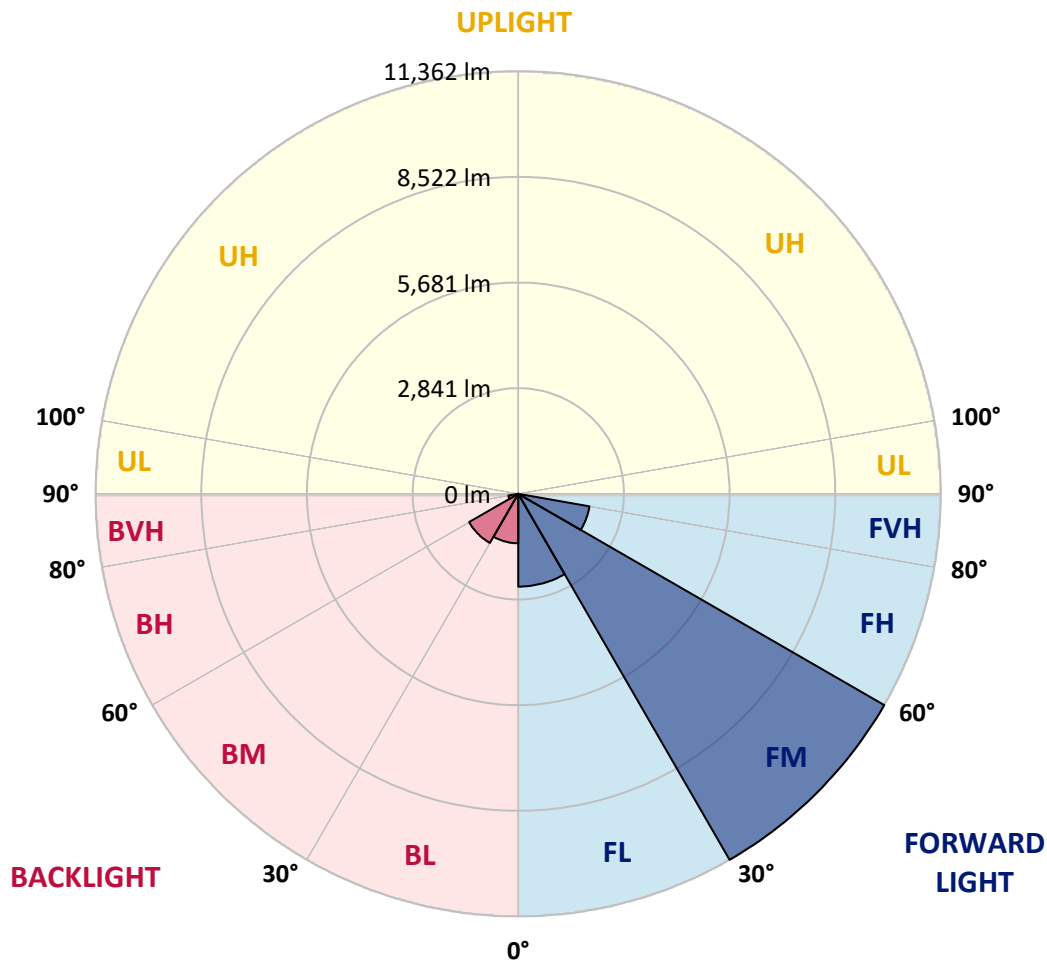
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.9	13.2			
FM (30°-60°)	11362.4	60.0			
FH (60°-80°)	1944.3	10.3			G2/5000
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	1330.4	7.0	B3/2500		
BM (30°-60°)	1525.6	8.1	B2/2500		
BH (60°-80°)	268.6	1.4	B1/500		G1/500
BVH (80°-90°)	10.4	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





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CATALOG NUMBER: GALN-SA9A-835-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8
2.5°	6770.4	6710.5	6770.4	6777.5	6819.9	6858.7	6833.9	6890.5	6858.7	6823.4	6812.8
5°	6223.3	6304.5	6308.0	6435.1	6406.8	6639.8	6742.2	6714.0	6887.0	6876.3	6851.6
7.5°	5732.7	5700.9	5743.2	5891.4	6078.6	6346.8	6495.1	6491.5	6738.7	6915.1	6897.5
10°	5277.3	5273.7	5362.0	5478.5	5637.3	5919.7	6124.5	6226.8	6611.6	6879.8	6918.7
12.5°	4970.2	4956.1	5051.4	5146.7	5397.3	5616.1	5877.4	5926.8	6368.1	6756.4	6819.9
15°	4768.9	4800.7	4807.8	4991.3	5150.2	5439.7	5644.4	5746.8	6255.1	6657.5	6901.0
17.5°	4733.6	4776.0	4779.5	4931.3	5100.8	5344.4	5524.4	5662.0	6159.8	6706.9	6904.6
20°	4804.3	4779.5	4800.7	4896.0	5061.9	5294.9	5556.2	5602.1	6128.0	6731.6	6943.4
22.5°	5005.5	4998.4	4945.4	5023.1	5139.6	5383.2	5630.2	5700.9	6219.8	6858.7	6975.2
25°	5227.9	5266.7	5217.3	5206.6	5287.8	5527.9	5856.2	5948.0	6526.9	7088.1	7074.0
27.5°	5644.4	5605.6	5605.6	5556.2	5534.9	5651.5	6099.7	6251.6	6869.3	7384.6	7187.0
30°	6043.3	6085.6	6053.8	6071.5	5930.3	5919.7	6445.7	6632.8	7476.4	7836.5	7427.0
32.5°	6675.2	6618.6	6671.6	6625.7	6438.6	6248.0	6915.1	7109.3	8210.6	8355.4	7787.1
35°	7201.1	7176.4	7402.3	7395.2	7091.6	6904.6	7412.9	7702.4	8722.5	8976.6	8210.6
37.5°	7949.4	7903.5	8161.2	8284.8	8013.0	7734.1	8126.0	8461.3	9199.1	9474.4	8644.9
40°	8718.9	8835.5	9181.4	9386.1	9096.7	8726.1	8997.8	9100.2	9516.7	9799.2	8941.4
42.5°	9693.2	9862.7	10215.6	10392.1	10367.5	9965.0	9883.9	9880.3	9746.2	9707.3	9160.2
45°	10628.7	10565.1	11108.7	11493.5	11804.1	11687.7	10738.1	10632.2	10109.8	9845.1	9216.7
47.5°	11038.1	11017.0	11387.6	12072.5	13131.4	13276.2	11980.6	11571.2	10724.0	10423.9	9523.8
50°	10508.6	10618.1	10985.2	11744.1	13367.9	14472.8	13505.6	12954.9	11440.6	11130.0	10251.0
52.5°	8779.0	8853.1	9202.6	10166.2	12563.1	15178.8	14967.0	14649.3	12757.3	12241.9	11518.2
54°	7218.7	7416.4	7607.0	8574.2	11130.0	14787.0	15768.3	15524.7	13615.0	13166.7	12316.0
55°	6286.9	6403.3	6541.0	7504.7	10138.0	14123.3	15676.5	15697.7	14190.4	13456.2	12852.6
57.5°	4592.5	4673.6	4532.5	4959.6	6961.0	11468.8	14338.6	14910.5	14967.0	13890.3	13180.8
60°	3508.8	3544.1	3385.2	3452.3	4327.7	7871.8	11091.1	11779.5	13502.1	12139.5	11165.2
62.5°	2721.6	2728.7	2725.2	2841.6	2982.8	4631.3	6936.4	7547.0	9308.5	8620.1	7582.3
65°	2005.0	1973.2	2029.7	2382.7	2545.1	2912.2	3653.5	4098.3	5058.4	4271.3	3053.4
67.5°	1299.0	1309.6	1366.1	1772.0	2181.5	2234.4	2248.5	2213.3	2216.8	1221.3	766.0
70°	780.1	797.8	780.1	1002.5	1560.2	1602.6	1464.9	1429.6	1115.5	289.5	286.0
72.5°	462.4	437.7	391.8	430.6	649.5	776.6	698.9	695.4	437.7	169.4	169.4
75°	194.2	176.5	144.7	130.6	173.0	165.9	165.9	148.2	116.5	113.0	105.9
77.5°	38.8	38.8	28.3	31.8	42.4	49.4	60.0	60.0	70.6	70.6	67.1
80°	0.0	3.5	10.6	21.1	31.8	45.9	52.9	52.9	60.0	60.0	49.4
82.5°	0.0	3.5	10.6	21.1	28.3	42.4	52.9	52.9	60.0	63.5	52.9
85°	0.0	3.5	10.6	17.6	28.3	35.3	35.3	31.8	24.7	21.1	14.1
87.5°	0.0	0.0	3.5	7.0	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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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CATALOG NUMBER: GALN-SA9A-835-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8	6805.8
2.5°	6837.5	6833.9	6749.2	6611.6	6579.8	6463.4	6449.2	6378.6	6417.5	6286.9	6272.7
5°	6781.0	6738.7	6636.3	6548.1	6290.4	6106.8	5962.1	5785.6	5683.2	5700.9	5633.8
7.5°	6862.2	6752.7	6572.7	6265.6	5951.5	5630.2	5457.3	5097.3	4966.6	4772.5	4744.3
10°	6777.5	6696.3	6417.5	5909.1	5475.0	5012.5	4606.5	4207.7	3904.1	3773.5	3745.2
12.5°	6770.4	6629.3	6163.3	5598.5	4970.2	4306.5	3717.1	3219.3	2919.3	2749.8	2711.0
15°	6661.0	6491.5	5877.4	5118.4	4250.0	3424.1	2781.6	2301.6	2072.1	1973.2	2001.5
17.5°	6671.6	6417.5	5591.4	4610.1	3540.6	2513.4	1899.1	1652.1	1592.0	1616.7	1616.7
20°	6661.0	6251.6	5245.5	4024.2	2711.0	1743.8	1394.4	1306.0	1344.9	1422.6	1404.9
22.5°	6604.5	6173.9	4927.8	3406.4	1994.5	1292.0	1119.0	1122.5	1182.6	1277.9	1299.0
25°	6646.9	6000.9	4525.4	2781.6	1454.3	1030.7	970.8	995.4	1059.0	1129.6	1143.7
27.5°	6615.1	5877.4	4105.3	2160.3	1062.5	886.0	882.5	910.7	939.0	991.9	991.9
30°	6650.4	5764.4	3692.3	1606.1	875.4	811.9	797.8	818.9	847.2	857.8	854.3
32.5°	6781.0	5679.6	3215.8	1200.2	773.1	741.3	741.3	741.3	737.7	751.9	755.4
35°	7067.0	5693.8	2795.7	928.4	706.0	681.3	670.7	656.5	649.5	656.5	660.1
37.5°	7377.6	5686.8	2361.5	790.7	656.5	635.4	610.7	589.5	586.0	593.0	582.5
40°	7515.2	5753.8	1959.1	709.6	610.7	586.0	547.2	529.5	533.0	540.1	533.0
42.5°	7702.4	5775.0	1697.9	646.0	568.3	529.5	504.8	483.6	480.1	490.6	487.1
45°	7698.8	5655.0	1422.6	610.7	529.5	487.1	455.4	437.7	437.7	444.7	448.3
47.5°	7924.7	5637.3	1221.3	579.0	501.3	458.9	420.1	405.9	402.4	402.4	395.3
50°	8450.7	5884.4	1066.1	543.6	466.0	427.1	395.3	377.7	363.5	356.5	353.0
52.5°	9477.9	6653.9	946.0	501.3	427.1	395.3	367.1	353.0	335.4	317.7	314.1
54°	10473.3	7448.2	939.0	466.0	395.3	374.2	349.5	342.4	321.2	296.5	289.5
55°	10921.7	7910.6	963.6	437.7	374.2	360.0	338.9	331.8	310.6	282.4	278.9
57.5°	11292.3	8090.7	949.5	363.5	338.9	335.4	317.7	307.1	282.4	243.6	236.5
60°	9089.6	6117.4	681.3	321.2	310.6	303.6	289.5	282.4	250.6	208.3	204.8
62.5°	5743.2	3519.4	434.2	282.4	271.8	261.2	243.6	236.5	208.3	165.9	155.3
65°	2446.2	1457.9	293.0	250.6	232.9	215.3	201.2	190.6	165.9	123.6	120.0
67.5°	635.4	518.9	243.6	218.8	194.2	169.4	158.9	141.2	113.0	84.7	81.2
70°	286.0	261.2	204.8	183.5	155.3	130.6	116.5	98.8	74.2	56.5	52.9
72.5°	169.4	165.9	155.3	137.7	116.5	98.8	84.7	67.1	49.4	31.8	31.8
75°	105.9	102.3	105.9	95.3	81.2	74.2	63.5	45.9	28.3	14.1	14.1
77.5°	63.5	63.5	63.5	60.0	56.5	56.5	45.9	28.3	14.1	3.5	3.5
80°	49.4	49.4	52.9	49.4	49.4	49.4	38.8	21.1	7.0	0.0	0.0
82.5°	49.4	52.9	60.0	56.5	49.4	42.4	35.3	21.1	7.0	0.0	0.0
85°	14.1	10.6	17.6	24.7	35.3	31.8	24.7	17.6	7.0	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	3.5	3.5	3.5	3.5	3.5	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)