

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: P648482

Luminaire Tested: **GALN-SA6B-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648482  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26372.2 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

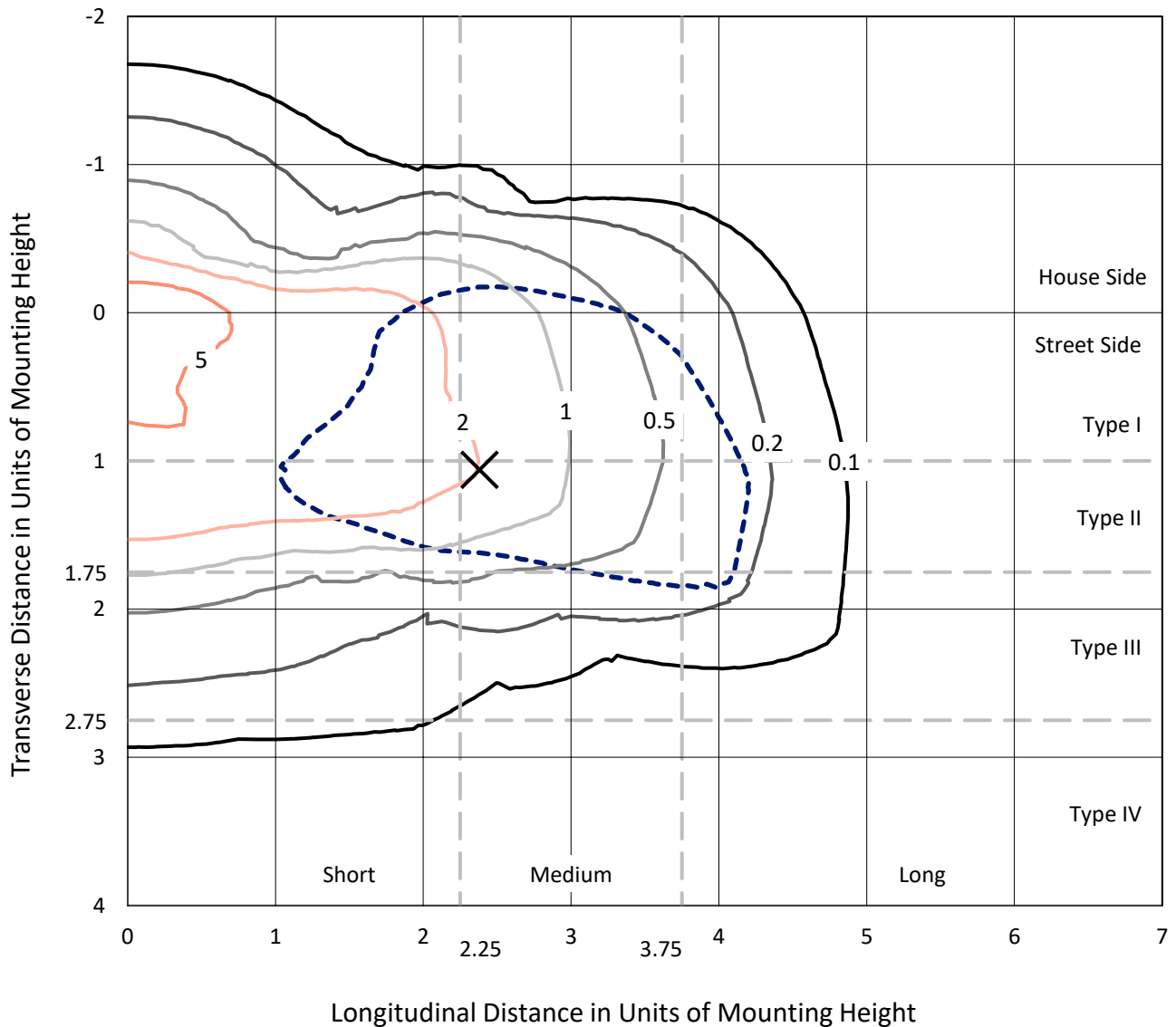
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648482  
 CATALOG NUMBER: GALN-SA6B-835-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

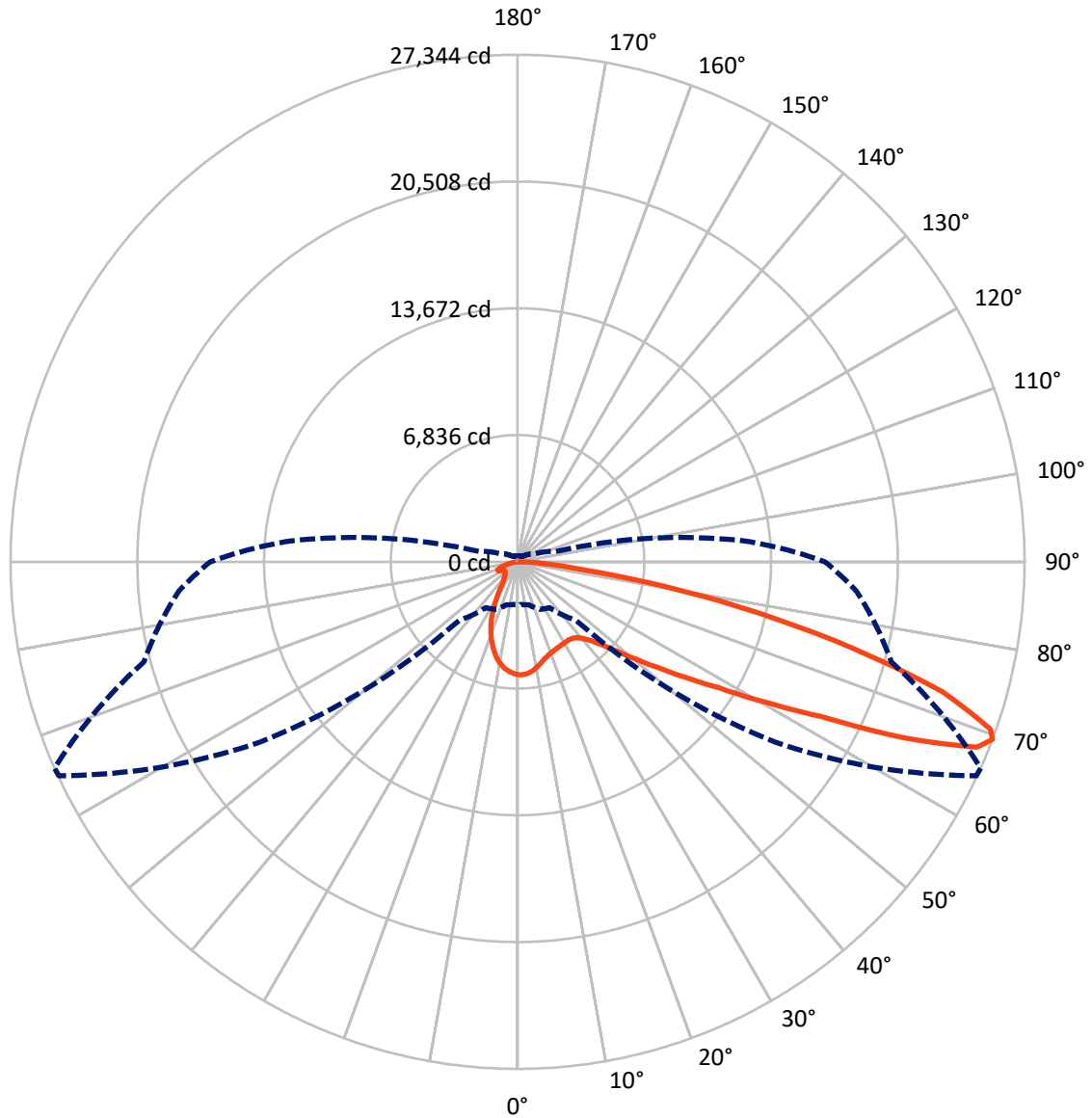
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P648482  
CATALOG NUMBER: GALN-SA6B-835-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P648482  
 CATALOG NUMBER: GALN-SA6B-835-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4959.6	0.0	4959.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	21412.6	0.0	21412.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	26372.2	0.0	26372.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.9	2.0
10°-20°	1254.4	4.8
20°-30°	1707.7	6.5
30°-40°	2294.8	8.7
40°-50°	3426.5	13.0
50°-60°	5450.4	20.7
60°-70°	6703.7	25.4
70°-80°	4361.7	16.5
80°-90°	644.1	2.4
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°	26372.2	100.0
0°-180°	26372.2	100.0

**Coefficient of Utilization**

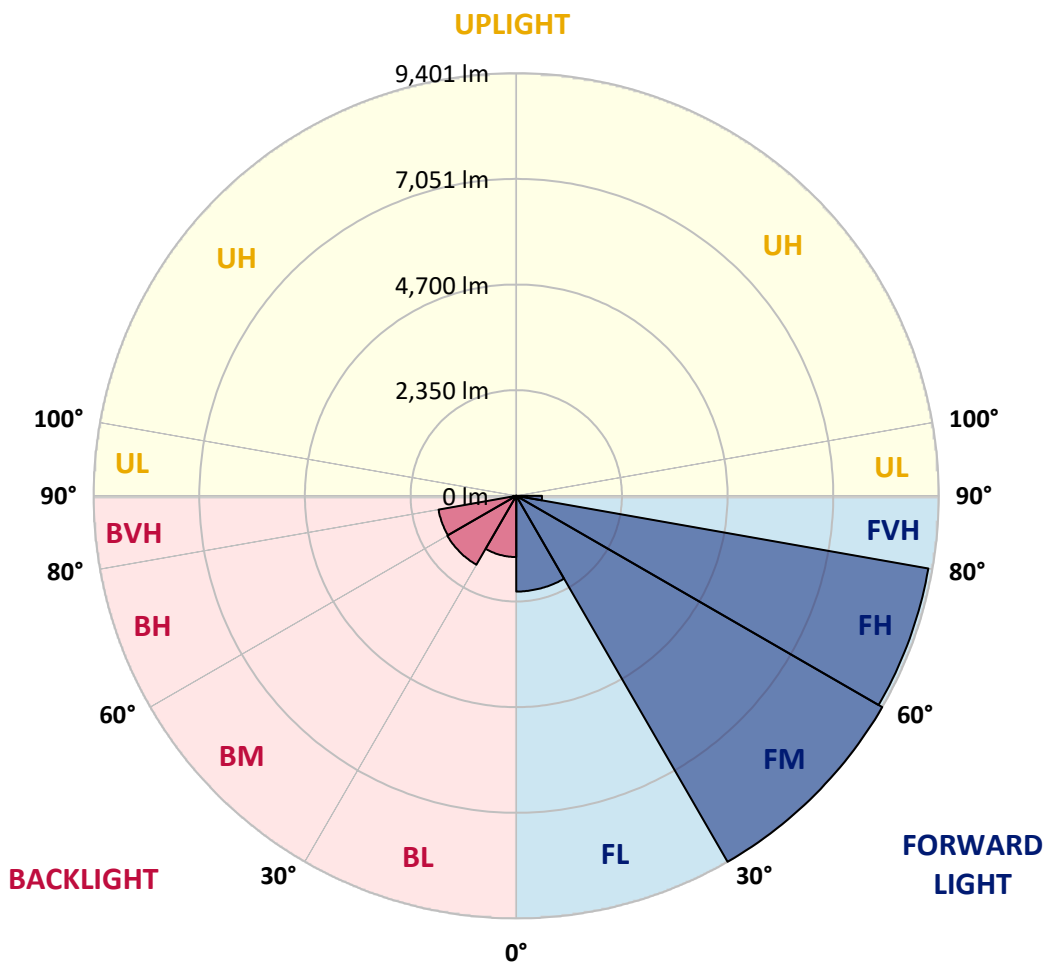


REPORT NUMBER: P648482  
 CATALOG NUMBER: GALN-SA6B-835-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.5	8.1			
FM (30°-60°)	9400.9	35.6			
FH (60°-80°)	9309.5	35.3			G4/12000
FVH (80°-90°)	572.6	2.2			G4/750
BL (0°-30°)	1361.4	5.2	B3/2500		
BM (30°-60°)	1770.8	6.7	B2/2500		
BH (60°-80°)	1755.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	71.5	0.3			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 Medium





REPORT NUMBER: P648482

CATALOG NUMBER: GALN-SA6B-835-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1
2.5°	5876.9	5900.2	5926.5	5955.7	6011.2	6041.9	6063.8	6088.6	6091.5	6104.7	6094.5
5°	5443.1	5470.8	5510.3	5565.8	5649.0	5779.0	5913.4	6022.9	6036.1	6097.4	6114.9
7.5°	5080.9	5096.9	5129.1	5218.2	5336.5	5481.1	5676.8	5898.7	5930.9	6076.9	6128.1
10°	4785.9	4802.0	4840.0	4932.0	5048.8	5229.9	5444.6	5736.6	5763.0	6014.1	6131.0
12.5°	4565.4	4580.0	4620.9	4711.4	4845.8	5015.2	5251.8	5561.4	5599.4	5930.9	6103.3
15°	4397.4	4425.2	4458.8	4533.3	4674.9	4838.5	5067.7	5400.7	5431.4	5843.3	6084.2
17.5°	4325.8	4339.0	4362.3	4431.0	4534.7	4695.3	4926.1	5275.1	5311.6	5781.9	6079.8
20°	4328.7	4341.9	4346.3	4384.3	4458.8	4597.5	4825.3	5175.9	5219.6	5727.9	6087.1
22.5°	4428.1	4429.5	4413.5	4400.3	4429.5	4544.9	4753.7	5101.3	5152.5	5704.5	6093.0
25°	4581.4	4607.7	4584.4	4523.0	4469.0	4524.5	4726.0	5060.5	5108.7	5671.0	6085.7
27.5°	4829.7	4834.1	4815.1	4731.8	4591.7	4550.8	4714.4	5029.8	5070.7	5646.1	6049.2
30°	5162.7	5149.6	5132.0	5040.0	4819.5	4651.6	4739.2	5002.0	5044.4	5609.6	6005.4
32.5°	5500.0	5541.0	5524.8	5416.8	5130.5	4847.2	4819.5	4999.1	5034.1	5581.9	5957.1
35°	5857.9	5876.9	5952.8	5897.3	5603.8	5164.1	4969.9	5044.4	5072.1	5583.3	5923.6
37.5°	6138.3	6189.4	6367.6	6415.7	6139.7	5583.3	5213.8	5172.9	5184.6	5654.8	5936.7
40°	6477.1	6564.8	6794.0	6991.2	6810.1	6128.1	5628.6	5411.0	5425.6	5827.2	6022.9
42.5°	6906.5	6967.8	7275.9	7543.3	7514.0	6848.0	6131.0	5800.9	5808.2	6170.4	6263.8
45°	7408.9	7496.5	7842.6	8244.2	8312.9	7663.0	6856.8	6390.9	6386.5	6703.5	6713.7
47.5°	8051.4	8105.5	8448.7	8886.8	9164.3	8686.8	7737.4	7238.0	7191.2	7480.4	7397.2
50°	8642.9	8727.6	8987.6	9466.6	10157.5	9885.8	8895.6	8336.3	8226.7	8496.9	8356.7
52.5°	8891.2	8980.3	9199.4	9793.8	11008.9	11436.8	10366.3	9646.2	9463.7	9671.1	9620.0
55°	8460.4	8575.7	8780.2	9503.1	11382.8	13225.8	12349.6	11160.7	11027.9	10938.7	10953.4
57.5°	7302.3	7411.8	7687.8	8485.2	10935.8	14524.2	15181.4	13107.6	12822.7	12412.4	12482.5
60°	5558.4	5627.1	5770.2	6653.8	9611.2	14861.6	18397.3	15568.4	15387.3	13880.1	13929.8
62.5°	3947.6	4025.0	4124.3	4565.4	7036.4	13910.8	20915.1	19004.8	18357.8	15400.4	15352.3
65°	3205.7	3153.1	3272.9	3478.8	4128.7	10781.0	21481.8	23774.7	22883.8	17402.7	16733.8
67.5°	2636.1	2580.6	2698.9	3065.5	3140.0	6258.0	19440.1	26870.8	26692.6	19580.2	18137.3
69°	2333.8	2304.6	2408.3	2826.0	3014.4	4444.2	16935.4	27301.6	27344.0	20864.0	18353.5
70°	2103.1	2114.7	2215.5	2704.7	2957.4	3664.3	14474.5	26707.3	27066.5	21505.2	18119.8
72.5°	1548.1	1572.9	1713.1	2240.3	2903.4	3109.3	8613.7	23327.8	23963.1	21543.1	16576.1
75°	1082.2	1070.5	1194.6	1686.8	2742.7	3081.6	5059.0	18040.9	18760.9	18620.8	13928.3
77.5°	708.3	727.3	826.6	1191.7	2307.5	3058.2	3297.7	12799.4	13266.8	12453.2	8238.4
80°	499.5	498.0	553.5	813.5	1711.6	2938.4	2700.4	8067.6	7949.3	4894.0	2443.4
82.5°	286.3	306.7	371.0	572.5	1145.0	2586.5	2484.2	3858.5	3522.6	1394.8	825.1
85°	159.2	166.5	220.5	346.2	668.9	1948.3	2168.8	1755.5	1656.1	582.7	354.9
87.5°	51.1	55.5	92.0	175.2	303.8	920.1	1228.2	810.6	747.8	210.3	143.1
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: P648482  
 CATALOG NUMBER: GALN-SA6B-835-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1
2.5°	6098.9	6116.4	6069.7	6024.3	5983.5	5926.5	5875.4	5833.0	5803.8	5799.4	5784.9
5°	6119.3	6120.7	6031.7	5911.9	5795.1	5666.6	5533.6	5438.7	5349.6	5300.0	5275.1
7.5°	6133.9	6120.7	5960.1	5765.9	5541.0	5307.3	5073.6	4886.7	4742.1	4685.2	4707.0
10°	6128.1	6087.1	5852.1	5541.0	5213.8	4864.8	4528.9	4265.9	4025.0	3900.8	3903.8
12.5°	6095.9	6028.7	5691.4	5288.3	4807.8	4340.5	3826.4	3471.5	3192.5	3027.5	2976.4
15°	6068.2	5951.3	5503.0	4945.1	4347.8	3680.3	3053.8	2615.7	2382.0	2252.0	2250.6
17.5°	6039.0	5876.9	5297.1	4581.4	3819.1	2960.4	2303.1	1968.7	1859.2	1872.3	1850.4
20°	6008.3	5789.2	5082.4	4176.9	3175.0	2208.2	1724.8	1588.9	1619.6	1679.5	1688.3
22.5°	5973.3	5695.8	4851.6	3731.5	2497.4	1662.0	1399.1	1378.6	1457.6	1551.0	1564.1
25°	5919.2	5579.0	4561.0	3265.6	1926.3	1339.2	1225.3	1240.0	1317.3	1396.2	1404.9
27.5°	5843.3	5434.3	4267.4	2684.3	1447.3	1149.4	1120.2	1139.2	1177.2	1225.3	1237.0
30°	5741.0	5270.8	3930.0	2181.9	1159.6	1054.5	1042.8	1053.0	1074.9	1095.3	1101.2
32.5°	5638.8	5113.1	3589.8	1670.8	1034.0	991.7	979.9	979.9	979.9	982.9	984.3
35°	5543.9	4964.1	3224.7	1301.3	968.3	942.0	925.9	908.4	905.5	895.3	895.3
37.5°	5491.3	4828.2	2836.2	1089.5	920.1	901.1	879.2	849.9	833.9	835.4	832.5
40°	5501.5	4739.2	2482.7	969.7	880.6	860.2	826.6	793.0	782.8	782.8	779.9
42.5°	5616.9	4710.0	2143.9	906.9	842.7	819.3	777.0	746.3	740.5	739.0	741.9
45°	5882.7	4781.5	1840.2	866.1	810.6	775.5	733.1	705.4	699.5	699.5	698.1
47.5°	6401.2	5013.7	1622.5	839.8	787.1	741.9	698.1	670.3	660.1	657.2	657.2
50°	7207.4	5517.6	1460.5	816.4	757.9	711.3	665.9	633.8	617.8	616.3	614.8
52.5°	8327.5	6303.3	1397.7	798.9	725.8	679.1	629.5	598.8	578.3	573.9	571.0
55°	9637.5	7400.1	1483.8	785.7	692.3	642.6	591.5	559.4	540.3	531.6	530.2
57.5°	11154.9	8717.5	1810.9	768.2	661.6	603.1	553.5	521.4	501.0	490.7	487.8
60°	12517.5	10071.3	2382.0	757.9	635.3	560.8	509.7	480.5	461.5	451.2	449.8
62.5°	14014.4	11362.3	3064.0	785.7	623.6	519.9	468.8	442.6	426.4	416.2	416.2
65°	15613.6	12654.8	3515.3	879.2	641.1	487.8	425.0	403.1	388.4	381.2	379.8
67.5°	16691.5	13101.7	2896.1	975.6	685.0	452.7	382.7	365.1	356.3	349.1	349.1
69°	16574.6	12536.5	2136.7	1000.4	698.1	435.2	359.2	346.2	334.4	331.5	328.6
70°	16205.1	11892.4	1790.5	984.3	687.9	419.1	344.7	328.6	318.4	315.5	314.0
72.5°	14433.7	10313.7	1333.4	855.8	585.6	363.6	305.2	290.6	281.9	277.5	277.5
75°	11991.7	8429.7	1041.3	680.6	458.6	306.7	261.4	249.7	242.4	239.5	238.0
77.5°	6721.0	4707.0	747.8	533.1	347.6	248.3	219.1	208.8	201.5	198.6	198.6
80°	1872.3	1345.0	439.6	352.0	236.6	188.4	173.8	166.5	156.3	149.0	153.3
82.5°	705.4	582.7	251.2	211.8	150.4	125.6	121.2	115.4	111.0	100.8	100.8
85°	343.2	283.3	160.7	112.4	83.2	65.7	62.8	59.9	56.9	49.6	51.1
87.5°	118.3	125.6	70.1	40.9	24.8	16.1	13.2	7.3	7.3	7.3	7.3
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)