

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: P459013

Luminaire Tested: **GALN-SA5B-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459013  
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-SA5B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 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: 26497 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

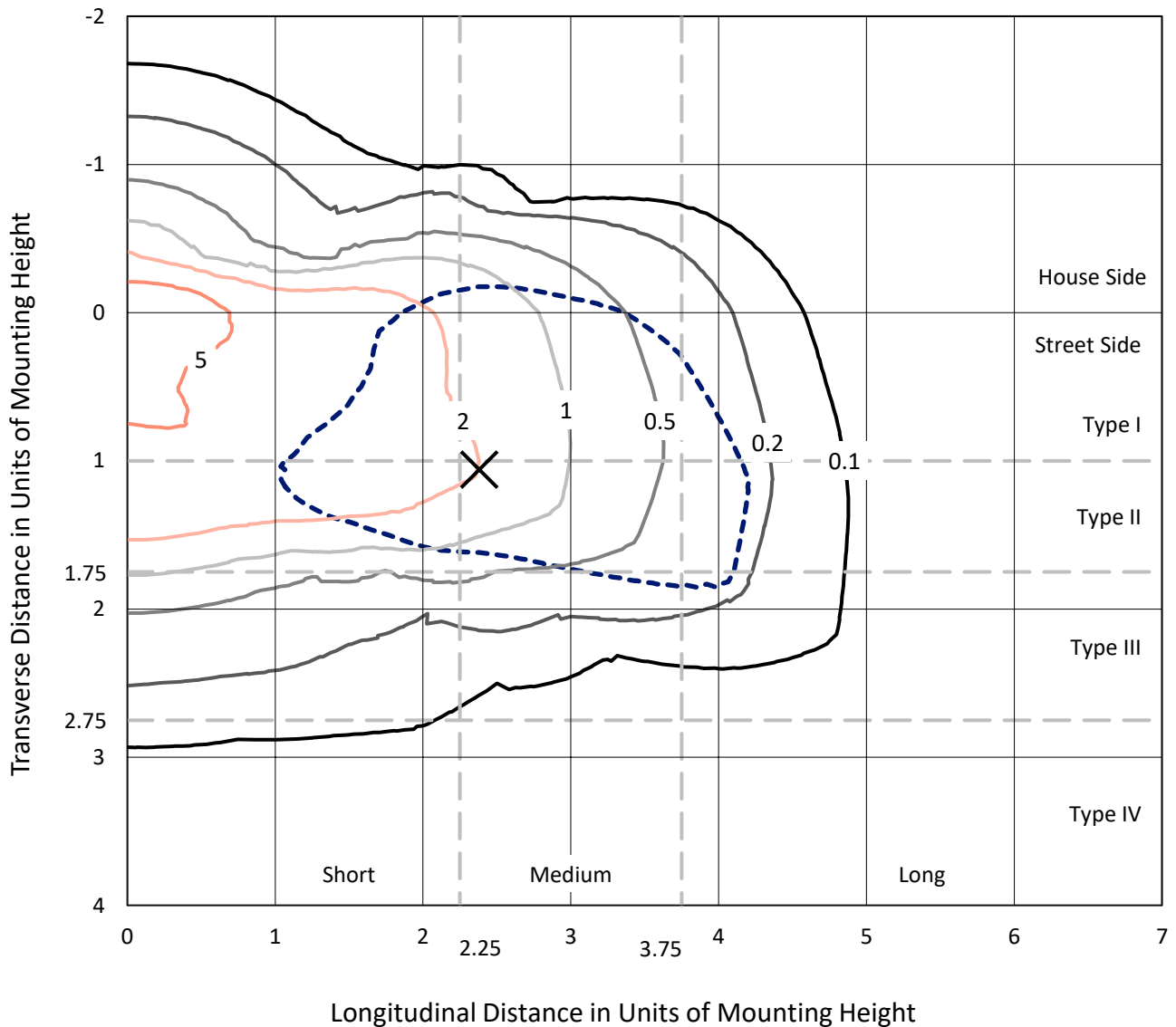
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459013  
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### Iso-Footcandle Lines of Horizontal Illumination

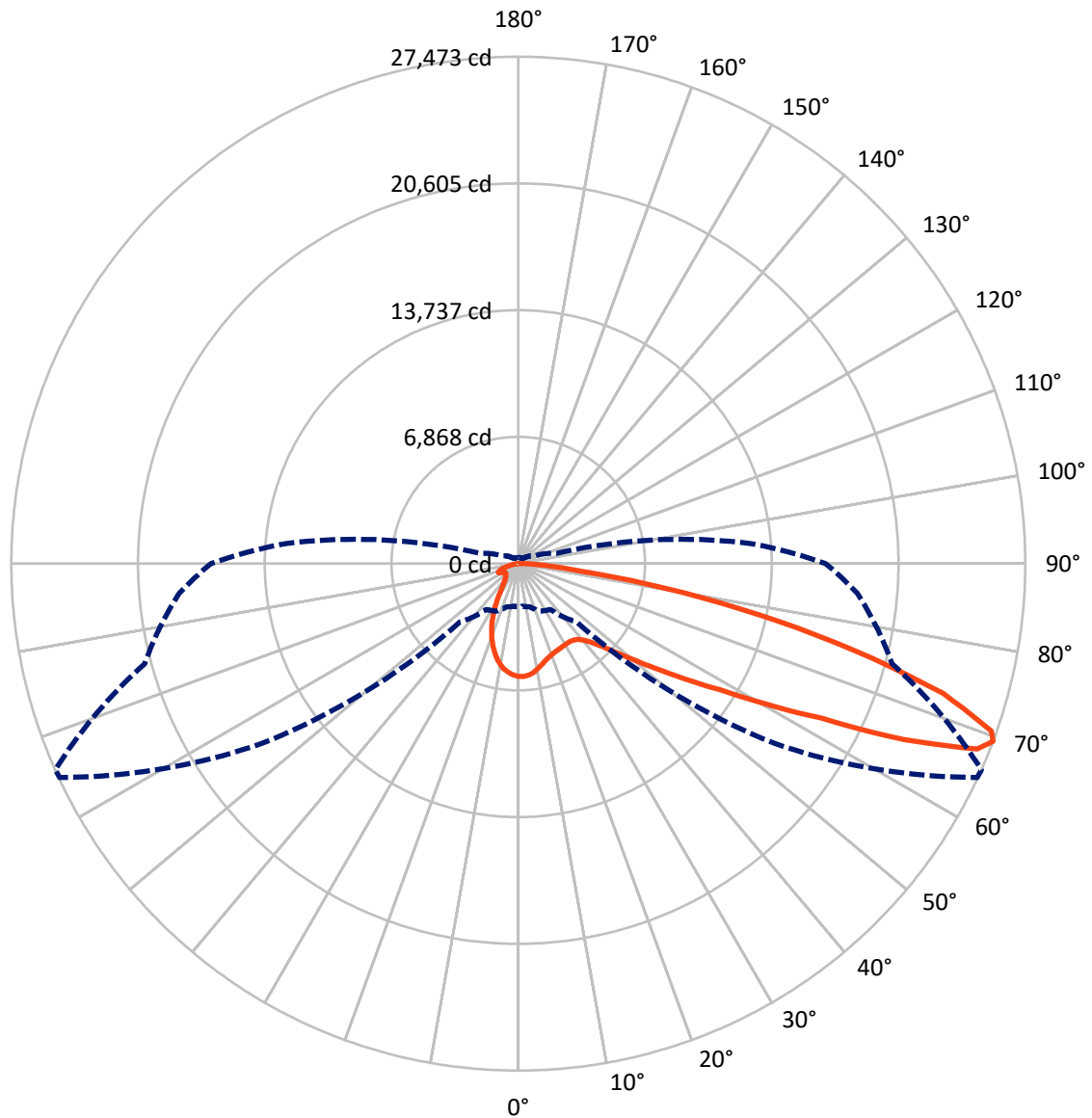
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P459013  
CATALOG NUMBER: GALN-SA5B-735-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459013

CATALOG NUMBER: GALN-SA5B-735-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4983.1	0.0	4983.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	21513.9	0.0	21513.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	26497.0	0.0	26497.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.4	2.0
10°-20°	1260.3	4.8
20°-30°	1715.8	6.5
30°-40°	2305.7	8.7
40°-50°	3442.7	13.0
50°-60°	5476.2	20.7
60°-70°	6735.4	25.4
70°-80°	4382.4	16.5
80°-90°	647.1	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°	26497.0	100.0
0°-180°	26497.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459013

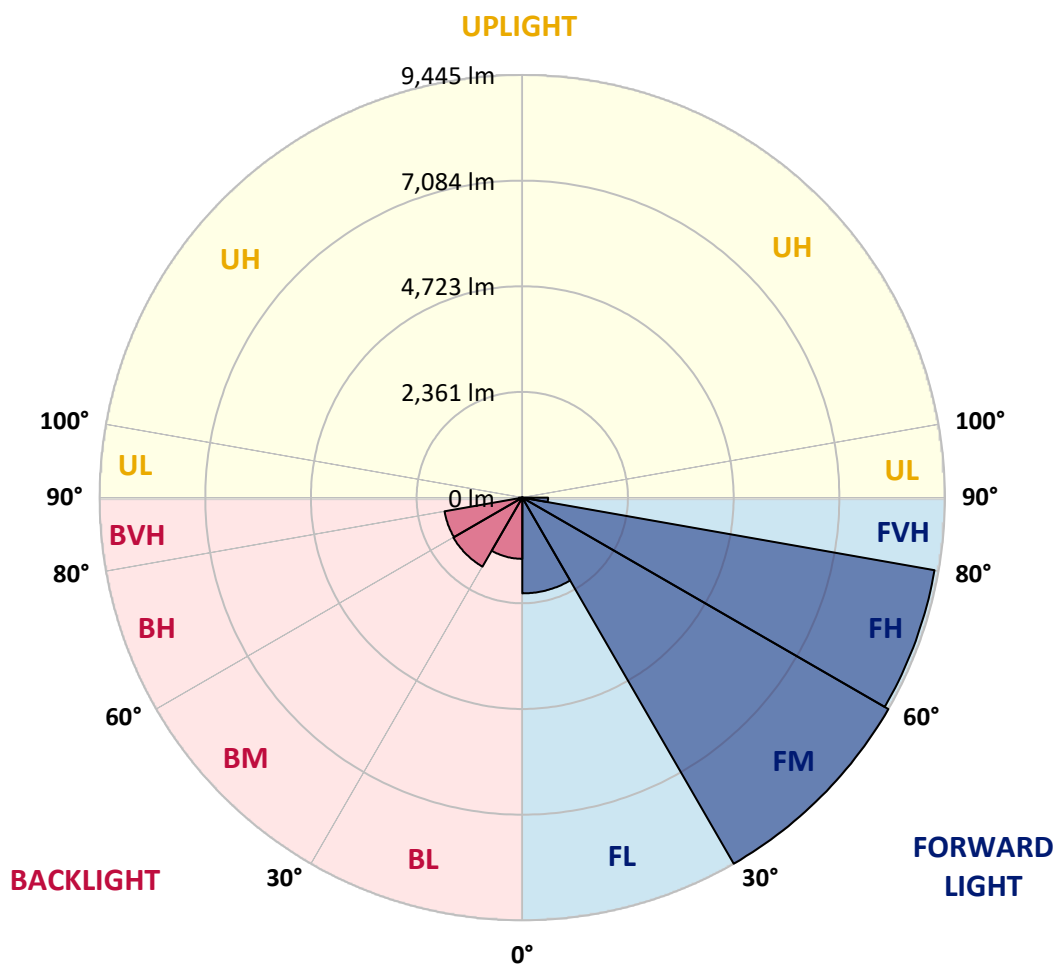
CATALOG NUMBER: GALN-SA5B-735-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2139.6	8.1			
FM (30°-60°)	9445.4	35.6			
FH (60°-80°)	9353.6	35.3			G4/12000
FVH (80°-90°)	575.4	2.2			G4/750
BL (0°-30°)	1367.9	5.2	B3/2500		
BM (30°-60°)	1779.2	6.7	B2/2500		
BH (60°-80°)	1764.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	71.8	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: P459013

CATALOG NUMBER: GALN-SA5B-735-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9
2.5°	5904.7	5928.1	5954.5	5983.9	6039.7	6070.5	6092.5	6117.4	6120.4	6133.6	6123.3
5°	5468.9	5496.7	5536.4	5592.1	5675.8	5806.3	5941.3	6051.4	6064.6	6126.2	6143.8
7.5°	5104.9	5121.1	5153.4	5242.9	5361.7	5507.0	5703.6	5926.7	5959.0	6105.7	6157.0
10°	4808.5	4824.7	4862.8	4955.3	5072.7	5254.6	5470.3	5763.8	5790.2	6042.6	6160.0
12.5°	4587.0	4601.6	4642.7	4733.7	4868.7	5038.9	5276.6	5587.7	5625.9	5959.0	6132.1
15°	4418.2	4446.1	4479.9	4554.7	4697.0	4861.4	5091.7	5426.3	5457.1	5870.9	6113.0
17.5°	4346.3	4359.5	4383.0	4452.0	4556.2	4717.6	4949.4	5300.1	5336.8	5809.3	6108.6
20°	4349.3	4362.5	4366.9	4405.0	4479.9	4619.3	4848.2	5200.3	5244.3	5755.0	6116.0
22.5°	4449.0	4450.5	4434.4	4421.2	4450.5	4566.4	4776.3	5125.5	5176.8	5731.5	6121.8
25°	4603.1	4629.5	4606.0	4544.4	4490.1	4545.9	4748.4	5084.4	5132.8	5697.8	6114.5
27.5°	4852.6	4857.0	4837.9	4754.2	4613.4	4572.3	4736.6	5053.6	5094.7	5672.8	6077.8
30°	5187.1	5173.9	5156.3	5063.9	4842.3	4673.5	4761.6	5025.7	5068.3	5636.1	6033.8
32.5°	5526.1	5567.2	5551.0	5442.4	5154.8	4870.2	4842.3	5022.8	5058.0	5608.3	5985.4
35°	5885.6	5904.7	5981.0	5925.2	5630.3	5188.6	4993.4	5068.3	5096.1	5609.7	5951.6
37.5°	6167.3	6218.7	6397.7	6446.1	6168.8	5609.7	5238.5	5197.4	5209.1	5681.6	5964.8
40°	6507.7	6595.8	6826.2	7024.3	6842.3	6157.0	5655.2	5436.6	5451.2	5854.8	6051.4
42.5°	6939.1	7000.8	7310.4	7578.9	7549.6	6880.5	6160.0	5828.4	5835.7	6199.6	6293.5
45°	7443.9	7532.0	7879.7	8283.3	8352.2	7699.2	6889.3	6421.2	6416.8	6735.2	6745.5
47.5°	8089.6	8143.9	8488.7	8928.9	9207.7	8727.9	7774.1	7272.2	7225.3	7515.8	7432.2
50°	8683.8	8768.9	9030.1	9511.4	10205.5	9932.6	8937.7	8375.7	8265.6	8537.1	8396.2
52.5°	8933.3	9022.8	9242.9	9840.1	11061.0	11490.9	10415.3	9691.9	9508.5	9716.9	9665.5
55°	8500.4	8616.3	8821.8	9548.1	11436.6	13288.4	12408.0	11213.6	11080.0	10990.5	11005.2
57.5°	7336.8	7446.9	7724.2	8525.4	10987.6	14592.9	15253.2	13169.6	12883.4	12471.1	12541.5
60°	5584.8	5653.7	5797.5	6685.3	9656.7	14931.9	18484.3	15642.1	15460.1	13945.8	13995.7
62.5°	3966.3	4044.0	4143.8	4587.0	7069.7	13976.6	21014.1	19094.8	18444.7	15473.3	15424.9
65°	3220.9	3168.0	3288.4	3495.3	4148.2	10832.1	21583.4	23887.2	22992.1	17485.1	16813.0
67.5°	2648.6	2592.8	2711.7	3080.0	3154.8	6287.6	19532.0	26998.0	26818.9	19672.9	18223.2
69°	2344.8	2315.5	2419.7	2839.3	3028.6	4465.2	17015.5	27430.8	27473.4	20962.7	18440.3
70°	2113.0	2124.7	2226.0	2717.6	2971.4	3681.6	14543.0	26833.6	27194.6	21606.9	18205.5
72.5°	1555.4	1580.3	1721.2	2250.9	2917.1	3124.0	8654.5	23438.2	24076.5	21645.0	16654.5
75°	1087.3	1075.6	1200.3	1694.8	2755.7	3096.1	5082.9	18126.3	18849.7	18708.8	13994.2
77.5°	711.7	730.7	830.5	1197.4	2318.4	3072.7	3313.3	12859.9	13329.5	12512.2	8277.4
80°	501.8	500.4	556.1	817.3	1719.7	2952.3	2713.1	8105.7	7986.8	4917.1	2454.9
82.5°	287.6	308.1	372.7	575.2	1150.4	2598.7	2496.0	3876.8	3539.3	1401.3	829.1
85°	159.9	167.3	221.6	347.8	672.1	1957.5	2179.0	1763.8	1664.0	585.5	356.6
87.5°	51.4	55.8	92.4	176.1	305.2	924.4	1234.1	814.4	751.3	211.3	143.8
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: P459013  
 CATALOG NUMBER: GALN-SA5B-735-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9	6118.9
2.5°	6127.7	6145.3	6098.4	6052.9	6011.8	5954.5	5903.2	5860.6	5831.3	5826.9	5812.2
5°	6148.2	6149.7	6060.2	5939.9	5822.5	5693.4	5559.8	5464.5	5374.9	5325.1	5300.1
7.5°	6162.9	6149.7	5988.3	5793.1	5567.2	5332.4	5097.6	4909.8	4764.5	4707.3	4729.3
10°	6157.0	6116.0	5879.7	5567.2	5238.5	4887.8	4550.3	4286.2	4044.0	3919.3	3922.3
12.5°	6124.8	6057.3	5718.3	5313.3	4830.6	4361.0	3844.5	3487.9	3207.7	3041.8	2990.5
15°	6096.9	5979.5	5529.0	4968.5	4368.3	3697.7	3068.3	2628.0	2393.3	2262.7	2261.2
17.5°	6067.5	5904.7	5322.1	4603.1	3837.1	2974.3	2314.0	1978.0	1867.9	1881.2	1859.1
20°	6036.7	5816.6	5106.4	4196.7	3190.0	2218.6	1733.0	1596.5	1627.3	1687.5	1696.3
22.5°	6001.5	5722.7	4874.6	3749.1	2509.2	1669.9	1405.7	1385.2	1464.4	1558.3	1571.5
25°	5947.2	5605.3	4582.6	3281.0	1935.4	1345.6	1231.1	1245.8	1323.6	1402.8	1411.6
27.5°	5870.9	5460.0	4287.6	2697.0	1454.2	1154.8	1125.5	1144.5	1182.7	1231.1	1242.9
30°	5768.2	5295.7	3948.7	2192.2	1165.1	1059.4	1047.7	1058.0	1080.0	1100.5	1106.4
32.5°	5665.5	5137.2	3606.8	1678.7	1038.9	996.3	984.6	984.6	984.6	987.5	989.0
35°	5570.1	4987.6	3239.9	1307.4	972.9	946.4	930.3	912.7	909.8	899.5	899.5
37.5°	5517.3	4851.1	2849.6	1094.7	924.4	905.4	883.4	854.0	837.9	839.3	836.4
40°	5527.5	4761.6	2494.5	974.3	884.8	864.3	830.5	796.8	786.5	786.5	783.6
42.5°	5643.5	4732.2	2154.1	911.2	846.7	823.2	780.6	749.8	744.0	742.5	745.4
45°	5910.5	4804.1	1848.9	870.1	814.4	779.2	736.6	708.7	702.9	702.9	701.4
47.5°	6431.4	5037.4	1630.2	843.7	790.9	745.4	701.4	673.5	663.2	660.3	660.3
50°	7241.4	5543.7	1467.4	820.3	761.6	714.6	669.1	636.8	620.7	619.2	617.8
52.5°	8366.9	6333.1	1404.3	802.6	729.3	682.3	632.4	601.6	581.1	576.7	573.7
55°	9683.1	7435.1	1490.8	789.4	695.5	645.6	594.3	562.0	542.9	534.1	532.7
57.5°	11207.7	8758.7	1819.5	771.8	664.7	606.0	556.1	523.8	503.3	493.0	490.1
60°	12576.7	10118.9	2393.3	761.6	638.3	563.5	512.1	482.8	463.7	453.4	451.9
62.5°	14080.8	11416.1	3078.5	789.4	626.6	522.4	471.0	444.6	428.5	418.2	418.2
65°	15687.6	12714.7	3531.9	883.4	644.2	490.1	427.0	405.0	390.3	383.0	381.5
67.5°	16770.5	13163.7	2909.8	980.2	688.2	454.9	384.4	366.8	358.0	350.7	350.7
69°	16653.1	12595.8	2146.7	1005.1	701.4	437.3	361.0	347.8	336.0	333.1	330.2
70°	16281.8	11948.7	1799.0	989.0	691.1	421.1	346.3	330.2	319.9	316.9	315.5
72.5°	14501.9	10362.5	1339.7	859.9	588.4	365.4	306.7	292.0	283.2	278.8	278.8
75°	12048.5	8469.6	1046.2	683.8	460.8	308.1	262.7	250.9	243.6	240.6	239.2
77.5°	6752.8	4729.3	751.3	535.6	349.2	249.5	220.1	209.8	202.5	199.6	199.6
80°	1881.2	1351.4	441.7	353.6	237.7	189.3	174.6	167.3	157.0	149.7	154.1
82.5°	708.7	585.5	252.4	212.8	151.1	126.2	121.8	115.9	111.5	101.2	101.2
85°	344.8	284.7	161.4	113.0	83.6	66.0	63.1	60.2	57.2	49.9	51.4
87.5°	118.9	126.2	70.4	41.1	24.9	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)