

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: P648389

Luminaire Tested: **GALN-SA4B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-835-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14783.8 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

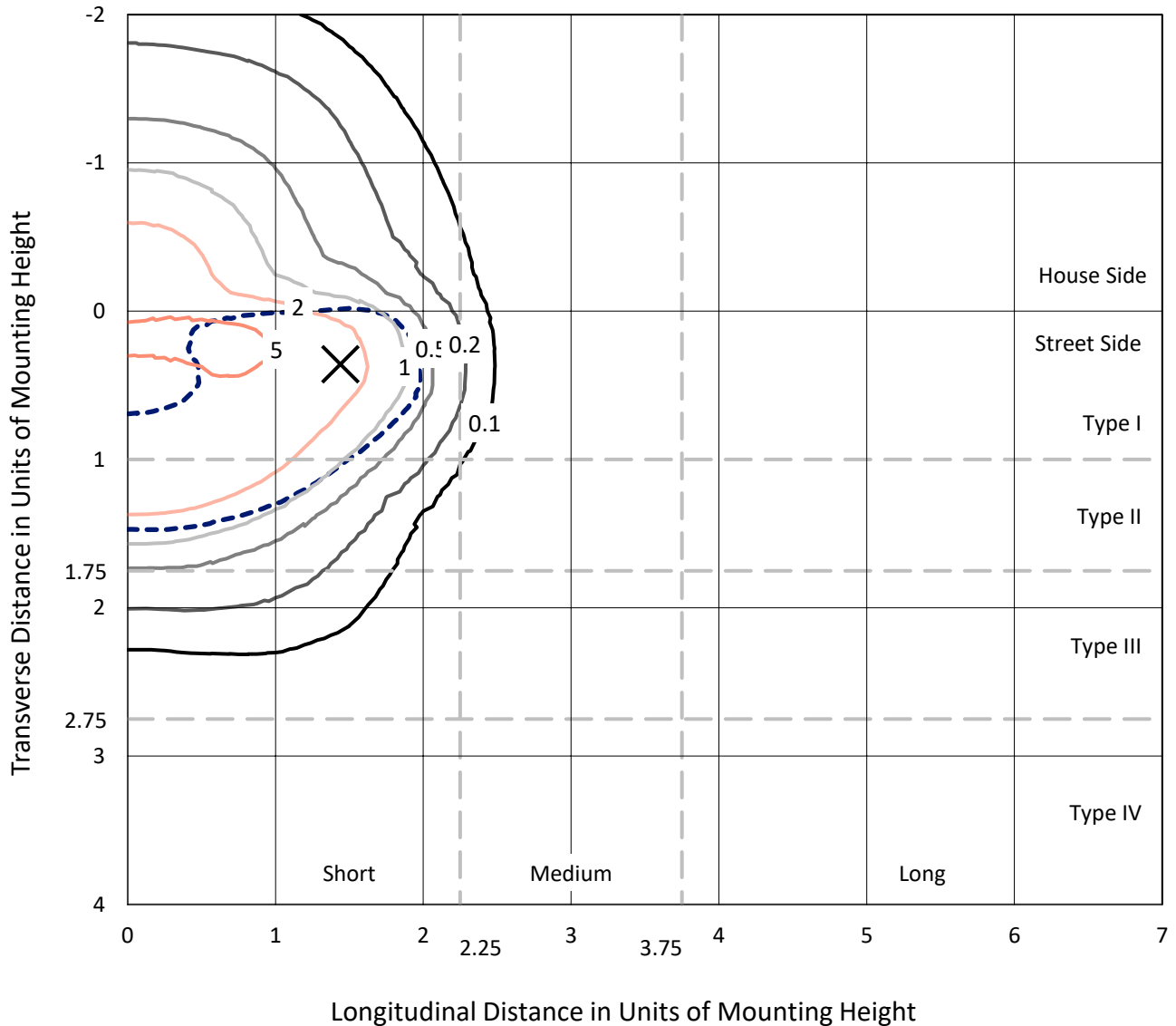
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648389  
 CATALOG NUMBER: GALN-SA4B-835-U-T2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

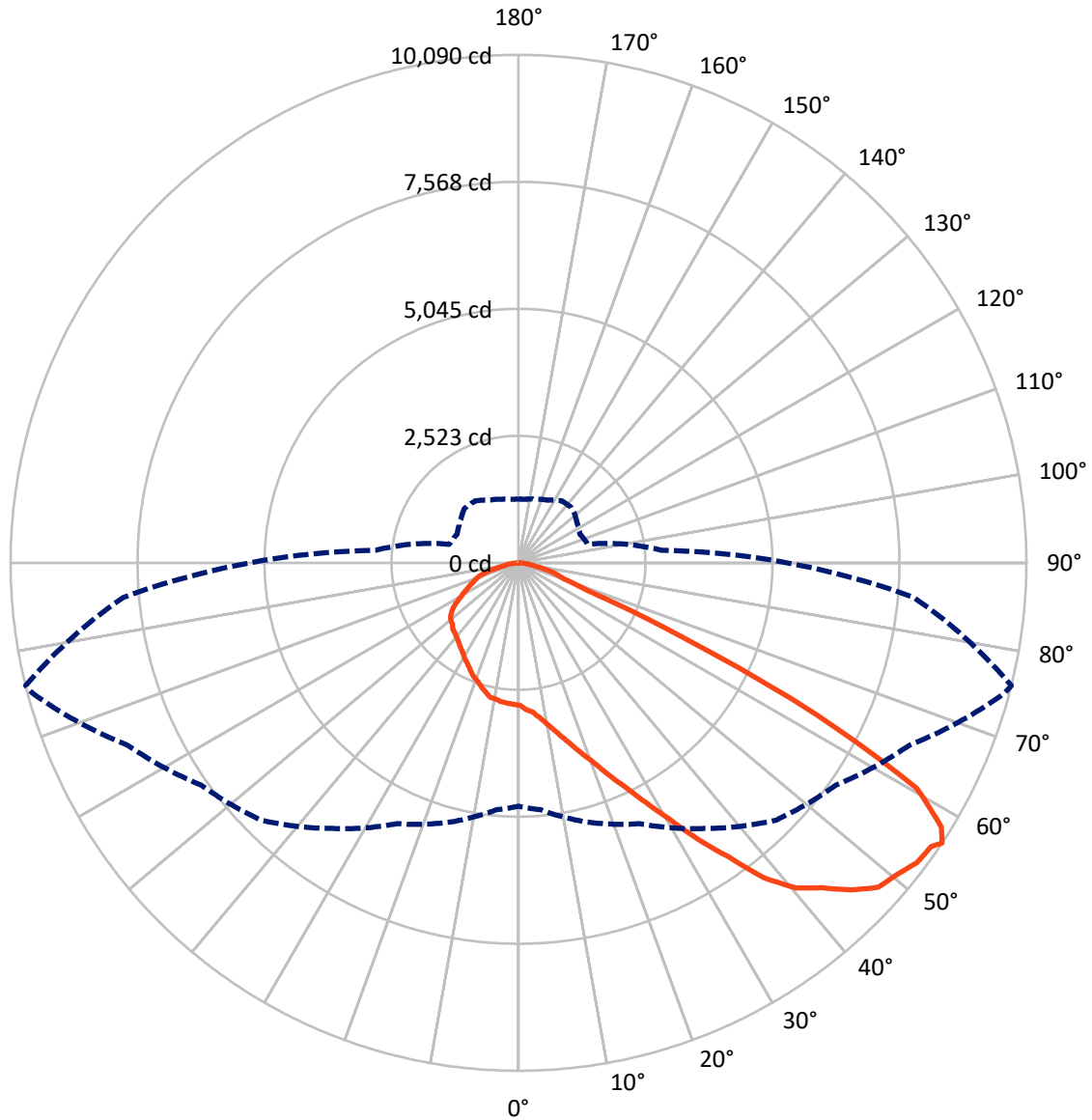
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P648389  
CATALOG NUMBER: GALN-SA4B-835-U-T2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P648389  
 CATALOG NUMBER: GALN-SA4B-835-U-T2-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3974.9	0.0	3974.9
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	10808.9	0.0	10808.9
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	14783.8	0.0	14783.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.5	1.9
10°-20°	881.2	6.0
20°-30°	1541.1	10.4
30°-40°	2412.9	16.3
40°-50°	3510.1	23.7
50°-60°	3857.9	26.1
60°-70°	1722.0	11.6
70°-80°	497.4	3.4
80°-90°	80.7	0.5
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°	14783.8	100.0
0°-180°	14783.8	100.0

**Coefficient of Utilization**



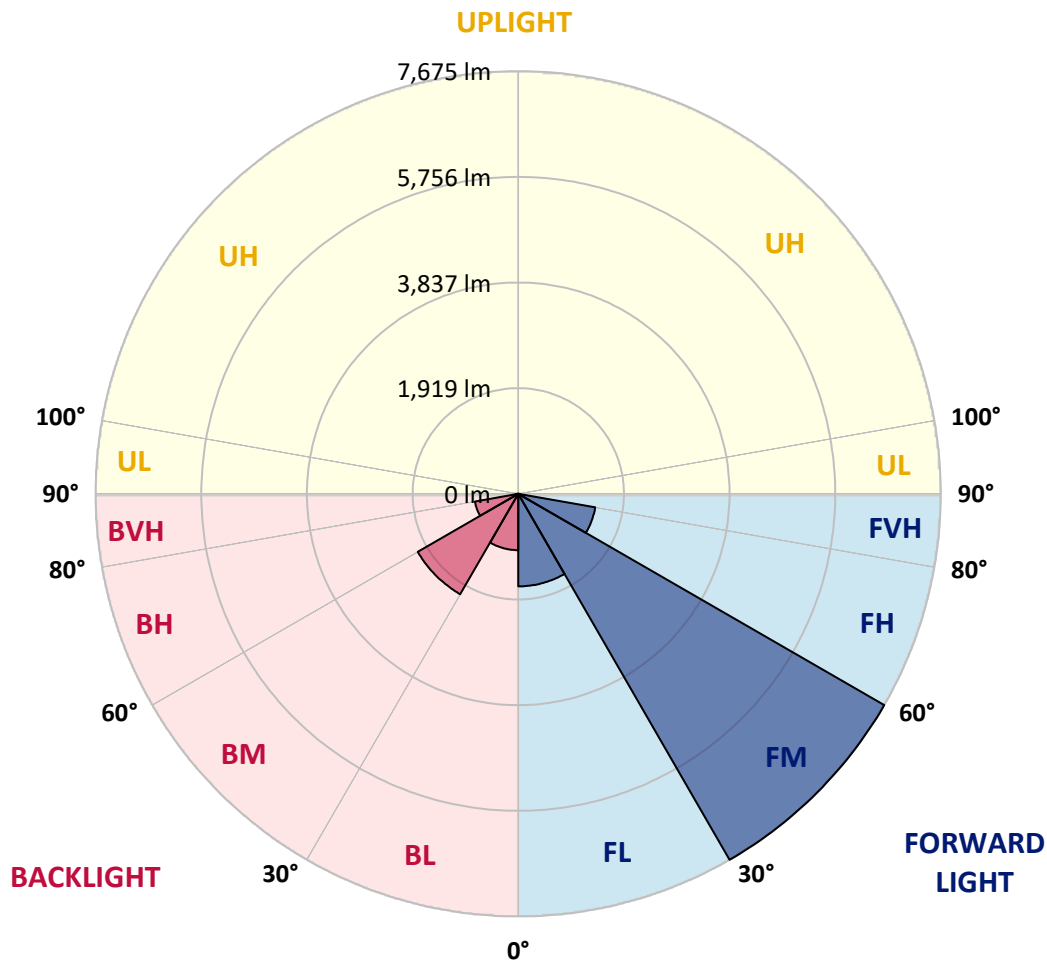
REPORT NUMBER: P648389  
 CATALOG NUMBER: GALN-SA4B-835-U-T2-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.0	11.4			
FM (30°-60°)	7674.6	51.9			
FH (60°-80°)	1419.6	9.6			G1/1800
FVH (80°-90°)	34.7	0.2			G1/100
BL (0°-30°)	1022.8	6.9	B3/2500		
BM (30°-60°)	2106.4	14.2	B2/2500		
BH (60°-80°)	799.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	46.0	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-G2**

Type II Short





REPORT NUMBER: P648389

CATALOG NUMBER: GALN-SA4B-835-U-T2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7
2.5°	3116.2	3066.3	3062.5	3049.1	3056.8	3022.2	2985.8	2937.9	2888.1	2918.8	2846.0
5°	3334.6	3267.5	3294.4	3248.4	3254.1	3208.2	3133.4	3077.8	3016.5	2980.1	2928.3
7.5°	3411.3	3417.0	3436.2	3428.5	3390.2	3390.2	3340.4	3242.6	3135.4	3114.2	3028.0
10°	3514.8	3516.7	3495.6	3501.3	3555.1	3530.2	3486.1	3443.9	3305.9	3281.0	3127.7
12.5°	3551.2	3516.7	3551.2	3581.8	3645.1	3679.6	3670.0	3639.4	3491.8	3474.6	3250.3
15°	3556.9	3535.9	3564.6	3633.6	3689.2	3834.8	3907.6	3886.6	3691.1	3693.0	3388.3
17.5°	3530.2	3558.9	3570.4	3629.8	3758.2	3894.3	4105.0	4133.8	3972.8	3947.9	3562.7
20°	3566.6	3545.4	3560.8	3614.4	3785.0	3997.8	4273.7	4463.4	4237.3	4220.1	3742.8
22.5°	3706.4	3677.7	3673.8	3708.4	3831.0	4051.4	4451.9	4793.1	4559.3	4568.8	3967.1
25°	3815.6	3831.0	3817.6	3815.6	3892.3	4131.9	4687.7	5186.0	4996.2	4940.7	4231.6
27.5°	4003.5	4039.9	4013.0	4049.4	4032.2	4252.6	4856.3	5621.0	5467.7	5392.9	4471.1
30°	4264.1	4283.3	4258.3	4258.3	4206.7	4421.3	5009.6	6075.1	6012.0	5910.4	4752.8
32.5°	4607.2	4635.9	4586.1	4557.4	4549.7	4672.3	5285.6	6523.6	6630.9	6544.7	5126.5
35°	5061.4	5044.1	4984.7	4957.9	4854.4	5057.6	5695.7	7039.2	7320.9	7167.6	5578.8
37.5°	5461.9	5435.1	5431.3	5281.7	5306.7	5473.4	6044.5	7430.1	7989.7	7945.6	6056.0
40°	5835.6	5860.5	5900.8	5816.4	5778.1	5962.1	6450.8	7729.1	8509.1	8491.9	6424.0
42.5°	6236.1	6213.2	6284.0	6213.2	6155.6	6416.3	6891.6	7936.1	8965.2	8823.4	6809.2
45°	6816.9	6744.1	6769.0	6774.7	6732.5	6828.3	7073.6	8085.6	9285.3	9269.9	7090.9
47.5°	7301.7	7303.7	7261.5	7228.9	7100.5	7196.3	7276.8	8179.5	9653.2	9628.3	7200.2
50°	7481.9	7457.0	7579.6	7650.5	7658.2	7462.7	7435.8	8231.2	9846.8	9737.5	7309.4
52.5°	6834.1	6857.1	7050.7	7472.2	7715.7	7736.7	7621.7	8338.5	9925.3	9902.4	7397.5
55°	5500.3	5611.4	5929.5	6416.3	6993.1	7627.5	7823.0	8449.7	9967.5	9948.3	7788.5
56°	4835.3	4921.5	5335.4	5716.8	6441.2	7230.8	7696.5	8568.5	10000.1	10090.1	7880.5
57.5°	3892.3	3992.0	4289.0	4722.2	5576.9	6475.7	7347.7	8422.8	9873.6	9908.1	7947.5
60°	2433.9	2443.5	2799.9	3085.5	3687.3	4565.0	5607.5	7328.6	9137.7	9087.9	7138.8
62.5°	1596.4	1598.3	1922.2	2156.0	2430.0	2631.3	3300.1	4860.2	6742.1	6653.9	5082.5
65°	1121.1	1146.1	1397.1	1709.4	1820.6	1715.2	1694.2	2562.3	3765.8	3639.4	2730.9
67.5°	820.3	822.2	1044.4	1379.9	1540.9	1305.1	1059.8	1251.5	1491.0	1487.2	1264.9
70°	542.4	565.3	735.9	1031.1	1215.1	1048.3	866.2	895.0	948.7	948.7	941.0
72.5°	316.3	337.3	450.4	653.5	682.2	655.4	686.1	766.6	801.1	799.1	789.6
75°	180.2	189.7	214.6	272.2	339.2	400.5	504.0	580.7	615.2	636.3	611.4
77.5°	105.4	111.2	126.5	155.3	176.3	216.6	274.0	327.7	373.7	367.9	371.8
80°	55.6	55.6	70.9	92.0	122.6	153.3	182.0	212.7	237.6	243.4	249.2
82.5°	32.6	34.5	46.0	67.1	88.2	109.2	139.9	161.0	184.0	185.9	189.7
85°	17.2	19.2	28.7	44.1	59.4	67.1	69.0	65.1	70.9	67.1	76.7
87.5°	5.7	5.7	9.6	7.7	7.7	9.6	11.5	11.5	15.3	15.3	15.3
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: P648389

CATALOG NUMBER: GALN-SA4B-835-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7	2828.7
2.5°	2844.0	2844.0	2811.4	2750.1	2740.5	2715.6	2692.7	2690.7	2673.5	2658.1	2650.5
5°	2897.7	2838.3	2790.4	2734.8	2669.6	2638.9	2604.5	2566.1	2550.8	2566.1	2564.2
7.5°	2959.0	2909.2	2765.5	2662.0	2587.2	2556.6	2518.2	2478.0	2481.8	2481.8	2455.0
10°	3018.4	2951.4	2721.4	2589.1	2479.9	2456.9	2435.8	2451.2	2470.3	2474.1	2456.9
12.5°	3118.1	2966.7	2700.3	2516.3	2447.3	2397.5	2410.9	2453.1	2493.3	2481.8	2495.3
15°	3192.8	2980.1	2604.5	2441.6	2355.3	2378.4	2426.2	2455.0	2522.0	2514.4	2527.8
17.5°	3265.7	2987.8	2510.5	2342.0	2305.5	2368.7	2405.1	2487.6	2508.7	2554.6	2571.9
20°	3415.1	3003.1	2414.8	2280.6	2269.1	2342.0	2405.1	2443.5	2489.5	2529.7	2529.7
22.5°	3491.8	2995.4	2351.5	2200.1	2236.5	2282.5	2340.0	2405.1	2405.1	2443.5	2445.4
25°	3587.6	2964.8	2251.8	2161.8	2188.6	2232.6	2297.9	2274.8	2299.7	2299.7	2330.4
27.5°	3696.9	2899.6	2165.6	2092.8	2146.4	2194.4	2203.9	2188.6	2159.8	2156.0	2144.5
30°	3785.0	2819.1	2102.4	2069.8	2113.9	2140.7	2110.0	2077.5	2027.6	2023.8	1997.0
32.5°	3905.8	2719.4	2023.8	2012.3	2062.1	2064.1	2054.4	2004.6	1931.8	1901.1	1870.4
35°	4108.9	2662.0	1964.4	1981.6	1997.0	1991.2	1973.9	1920.3	1847.5	1834.0	1822.6
37.5°	4258.3	2619.8	1903.1	1924.1	1937.5	1945.2	1893.5	1834.0	1836.0	1809.1	1801.4
40°	4427.0	2593.0	1853.2	1862.8	1864.7	1889.6	1826.3	1797.6	1811.1	1793.8	1805.3
42.5°	4643.6	2600.7	1801.4	1793.8	1830.2	1820.6	1789.9	1751.6	1759.3	1707.6	1715.2
45°	4758.6	2652.4	1770.8	1736.3	1776.5	1774.7	1734.4	1698.0	1652.0	1552.3	1556.1
47.5°	4835.3	2665.8	1698.0	1675.0	1717.1	1742.1	1696.1	1611.7	1546.6	1475.6	1458.4
50°	4913.8	2690.7	1663.5	1615.6	1632.8	1692.2	1634.7	1554.3	1491.0	1427.8	1437.4
52.5°	4982.8	2738.6	1596.4	1525.5	1556.1	1621.4	1590.7	1492.9	1424.0	1372.2	1356.9
55°	5289.4	2846.0	1483.3	1391.3	1464.2	1546.6	1529.4	1410.5	1335.8	1308.9	1305.1
56°	5337.3	2849.8	1424.0	1345.4	1412.5	1521.7	1500.6	1374.1	1307.1	1264.9	1266.8
57.5°	5345.0	2803.8	1339.6	1303.2	1360.7	1485.3	1458.4	1345.4	1253.3	1215.1	1203.5
60°	4703.0	2188.6	1234.2	1211.2	1278.2	1374.1	1364.5	1266.8	1163.3	1119.2	1140.3
62.5°	3206.2	1604.1	1151.8	1148.0	1182.5	1276.4	1251.5	1163.3	1077.0	1048.3	1034.9
65°	1866.6	1216.9	1071.3	1056.0	1084.7	1134.6	1151.8	1059.8	969.7	950.6	944.8
67.5°	1102.0	1006.2	967.8	942.9	933.3	964.0	977.4	923.7	833.7	806.8	829.8
70°	921.8	895.0	896.9	854.7	831.8	810.6	799.1	751.3	676.5	642.0	632.4
72.5°	795.3	783.9	776.2	737.8	716.8	668.8	619.0	571.1	515.5	486.8	488.7
75°	607.5	603.7	607.5	588.3	551.9	513.6	467.6	406.3	364.1	327.7	335.4
77.5°	362.2	373.7	379.4	371.8	356.5	322.0	293.2	253.0	212.7	184.0	180.2
80°	249.2	258.7	268.3	258.7	243.4	218.5	187.8	157.1	128.4	113.1	109.2
82.5°	189.7	199.3	205.1	195.5	176.3	149.5	128.4	107.3	84.3	69.0	65.1
85°	69.0	78.6	76.7	92.0	99.7	95.8	82.4	63.3	47.9	34.5	32.6
87.5°	19.2	17.2	19.2	19.2	19.2	17.2	15.3	15.3	15.3	9.6	7.7
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)