

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: P648040

Luminaire Tested: **GALN-SA7A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21139.4 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

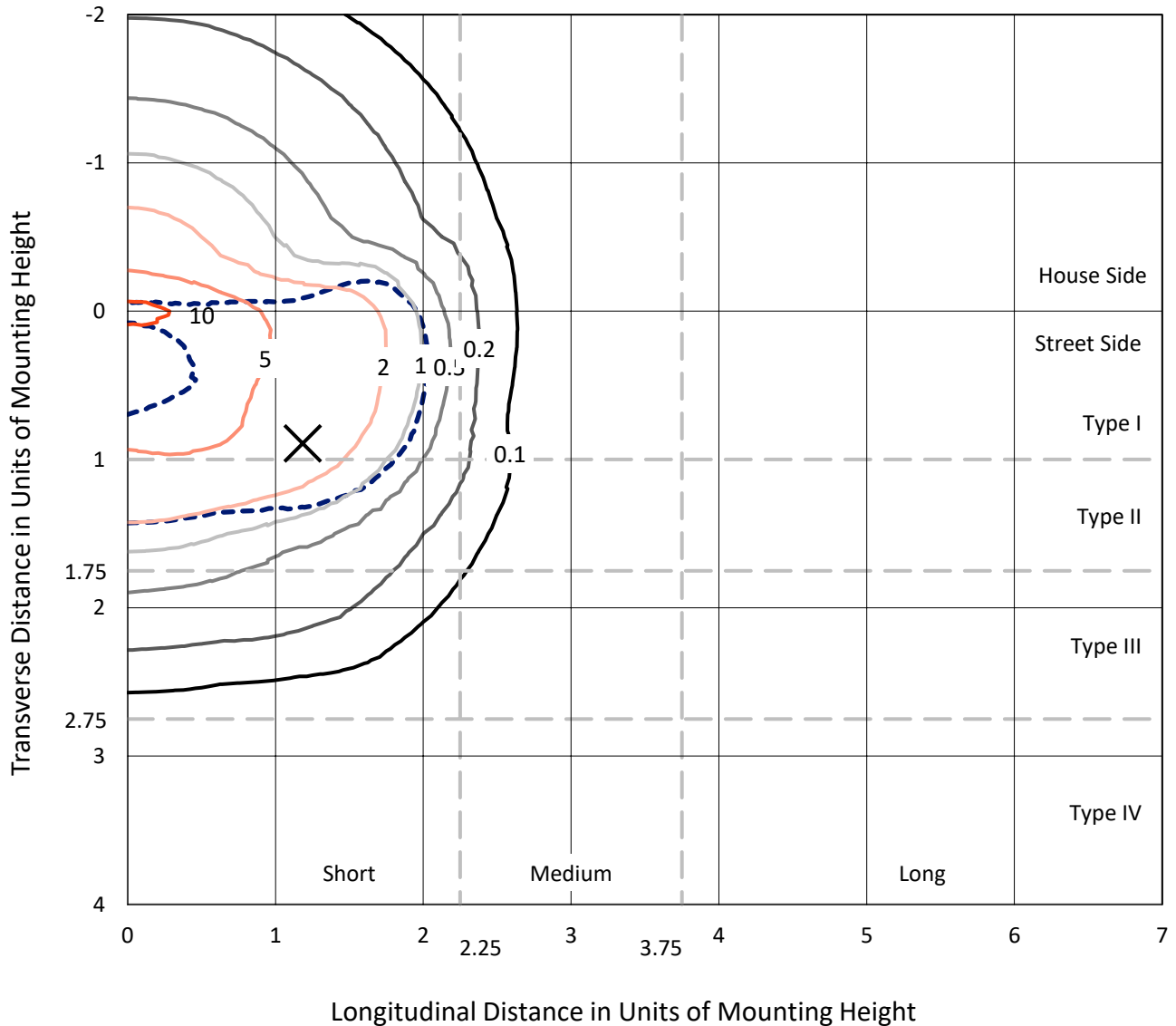
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648040
 CATALOG NUMBER: GALN-SA7A-835-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

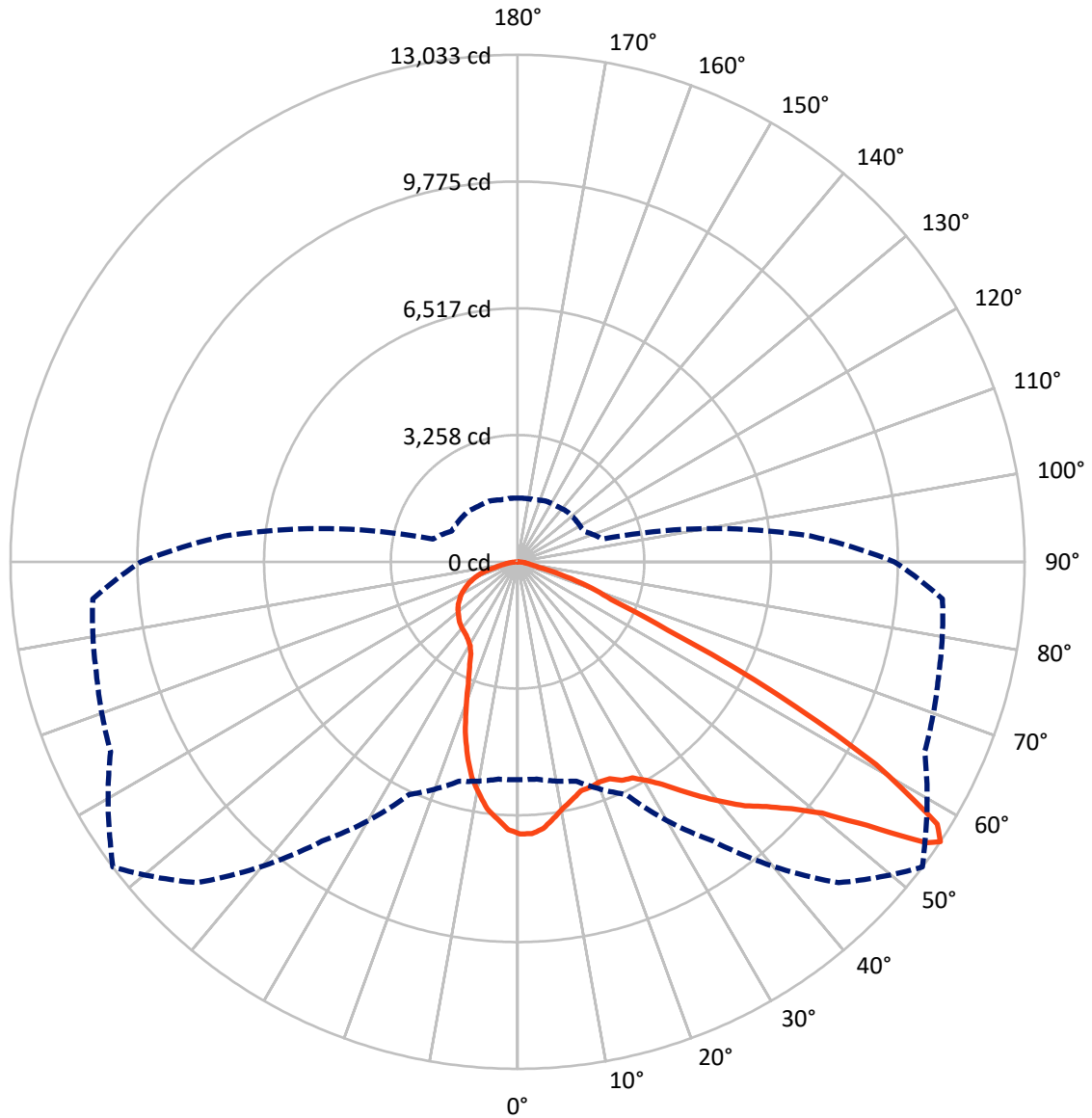
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P648040
CATALOG NUMBER: GALN-SA7A-835-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P648040
 CATALOG NUMBER: GALN-SA7A-835-U-SL2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6168.9	0.0	6168.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	14970.5	0.0	14970.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	21139.4	0.0	21139.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.1	2.9
10°-20°	1546.4	7.3
20°-30°	2280.2	10.8
30°-40°	3258.0	15.4
40°-50°	4484.2	21.2
50°-60°	5299.2	25.1
60°-70°	2824.1	13.4
70°-80°	716.5	3.4
80°-90°	111.7	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°	21139.4	100.0
0°-180°	21139.4	100.0

Coefficient of Utilization

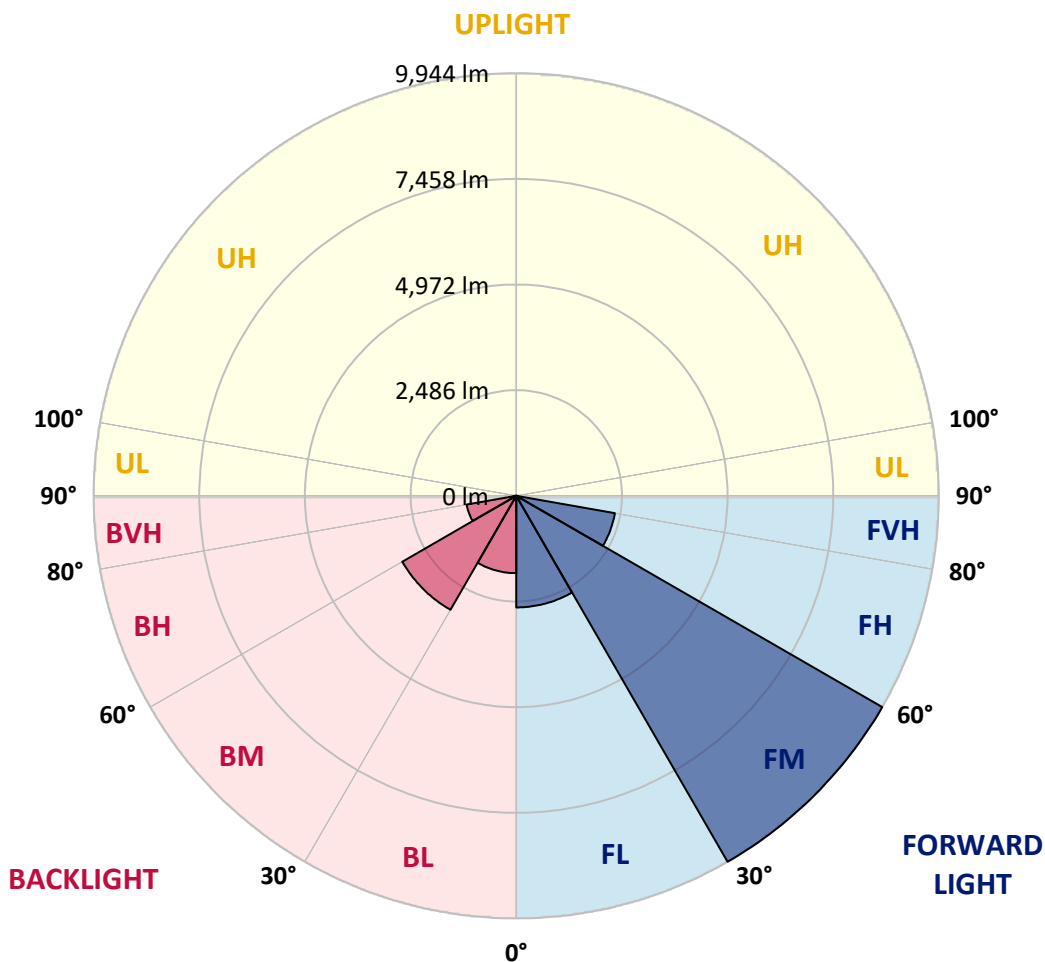


REPORT NUMBER: P648040
 CATALOG NUMBER: GALN-SA7A-835-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2626.3	12.4			
FM (30°-60°)	9943.6	47.0			
FH (60°-80°)	2355.7	11.1			G2/5000
FVH (80°-90°)	44.9	0.2			G1/100
BL (0°-30°)	1819.5	8.6	B3/2500		
BM (30°-60°)	3097.8	14.7	B3/5000		
BH (60°-80°)	1184.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	66.8	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-G3
 Type II Short





REPORT NUMBER: P648040

CATALOG NUMBER: GALN-SA7A-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8
2.5°	6907.0	6847.3	6882.6	6869.0	6980.2	7012.7	6996.5	7010.0	7072.4	7042.5	6980.2
5°	6454.1	6538.2	6554.4	6595.1	6660.2	6787.7	6888.0	6915.1	6945.0	7083.3	7069.7
7.5°	6041.9	6098.9	6069.0	6188.4	6329.4	6535.5	6657.5	6679.2	6953.1	7029.0	7086.0
10°	5781.6	5724.7	5860.2	5892.8	6052.7	6288.7	6435.2	6524.6	6774.1	7075.1	7110.3
12.5°	5540.2	5521.2	5602.6	5694.8	5873.8	6117.8	6267.0	6302.2	6687.3	7004.6	7170.0
15°	5361.3	5339.6	5420.9	5488.7	5697.5	5914.5	6104.3	6204.6	6592.4	6963.9	7118.5
17.5°	5220.3	5217.5	5263.6	5385.6	5599.9	5781.6	6088.0	6093.5	6543.6	7026.3	7161.9
20°	5212.1	5209.4	5217.5	5353.1	5548.3	5770.7	6036.5	6085.3	6543.6	6982.9	7164.6
22.5°	5279.9	5236.5	5285.3	5372.1	5513.1	5789.7	6055.5	6163.9	6700.9	7197.2	7286.6
25°	5388.4	5399.2	5426.3	5456.2	5537.5	5833.1	6223.6	6313.1	6885.3	7381.6	7454.8
27.5°	5586.3	5580.9	5591.7	5608.0	5678.6	5873.8	6291.4	6521.9	7270.4	7709.7	7636.4
30°	5876.5	5857.5	5900.9	5957.8	5892.8	6004.0	6516.5	6690.0	7628.3	8040.5	7839.9
32.5°	6139.5	6210.1	6291.4	6315.8	6237.1	6258.8	6814.8	6991.0	7926.6	8447.3	8089.3
35°	6467.7	6524.6	6633.1	6709.0	6695.4	6630.4	7221.5	7454.8	8357.8	8745.6	8352.3
37.5°	6787.7	6855.5	7034.5	7259.5	7134.8	7104.9	7655.5	7848.0	8490.7	8905.6	8544.9
40°	7302.9	7300.2	7609.4	7725.9	7837.1	7785.6	8105.6	8170.7	8561.2	8870.3	8550.4
42.5°	7907.7	7869.7	8184.2	8366.0	8509.6	8515.0	8574.7	8553.0	8593.7	8691.4	8493.4
45°	8482.6	8563.9	8881.2	9206.6	9350.4	9366.6	8970.7	8930.0	8650.7	8639.9	8384.9
47.5°	9184.9	9203.9	9464.2	9892.7	10226.2	10112.4	9483.2	9393.7	8900.1	8984.2	8566.6
50°	9225.5	9366.6	9599.8	10104.2	11129.2	11099.4	10147.6	9979.5	9301.5	9472.3	9073.7
52.5°	8374.1	8341.5	8618.2	9442.5	11061.4	12081.1	11248.6	10847.2	10163.9	10033.7	9895.4
55°	6380.9	6456.9	6700.9	7533.4	9605.2	12094.7	12748.2	12420.1	11085.9	10863.5	10703.5
56°	5597.2	5608.0	5838.5	6597.9	8764.6	11663.5	13033.0	12767.2	11544.2	11205.2	10961.1
57.5°	4639.9	4577.5	4696.8	5111.7	7397.8	10752.3	12721.1	12981.4	12081.1	11574.0	11235.0
60°	3652.8	3639.2	3590.4	3666.4	4675.1	8100.2	10589.6	11175.4	12026.9	11226.9	10760.5
62.5°	2983.0	2915.2	3012.8	3121.3	3248.7	5025.0	7441.2	7785.6	9548.3	8962.5	8083.9
65°	2313.1	2280.6	2402.6	2755.2	2831.1	3191.8	4238.5	4504.3	5637.8	5537.5	4875.8
67.5°	1591.8	1597.2	1703.0	2239.9	2625.0	2592.5	2595.2	2733.5	2942.3	2185.7	1903.7
70°	1008.8	1006.1	1063.0	1442.7	2112.5	2134.2	2025.7	1985.1	1882.0	1139.0	1206.8
72.5°	648.1	629.1	659.0	797.3	1092.8	1263.7	1301.7	1326.1	1090.2	894.9	970.8
75°	366.1	347.1	336.3	371.5	431.2	499.0	547.8	564.1	631.9	677.9	718.6
77.5°	111.2	100.3	122.1	162.7	214.2	287.4	349.8	360.6	425.7	480.0	520.7
80°	48.8	54.3	76.0	108.4	151.8	203.4	246.8	263.0	306.5	347.1	358.0
82.5°	29.8	32.6	51.5	73.2	105.8	143.8	176.3	181.7	225.1	257.6	265.8
85°	10.9	13.5	27.1	43.4	67.8	92.2	92.2	100.3	92.2	92.2	100.3
87.5°	0.0	0.0	2.7	5.4	5.4	8.1	10.9	10.9	13.5	16.3	18.9
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: P648040

CATALOG NUMBER: GALN-SA7A-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8	6993.8
2.5°	7012.7	6999.2	6977.5	6898.9	6890.7	6866.3	6730.7	6709.0	6730.7	6665.6	6671.1
5°	6999.2	7039.9	6877.2	6798.5	6652.1	6546.3	6424.3	6361.9	6250.7	6180.2	6258.8
7.5°	7058.8	7042.5	6839.2	6668.3	6448.7	6180.2	5966.0	5843.9	5648.7	5594.5	5635.2
10°	7037.1	6950.4	6711.7	6486.7	6071.8	5835.8	5488.7	5152.5	4968.1	4873.2	4859.5
12.5°	7007.3	6982.9	6584.2	6196.5	5759.9	5263.6	4775.5	4458.2	4157.2	4027.0	4046.0
15°	7042.5	6836.5	6345.7	5854.8	5274.4	4623.6	4097.5	3688.1	3479.3	3395.2	3395.2
17.5°	7026.3	6766.0	6231.7	5472.5	4737.5	3967.4	3389.8	3143.0	3056.2	3056.2	3080.6
20°	7034.5	6812.1	6001.2	5090.0	4103.0	3341.0	2920.6	2831.1	2869.1	2882.7	2896.2
22.5°	7080.5	6660.2	5776.2	4669.7	3514.5	2858.3	2652.2	2654.8	2722.6	2795.9	2782.3
25°	7137.5	6600.5	5502.3	4252.1	3064.3	2622.3	2557.2	2549.1	2600.7	2638.6	2644.0
27.5°	7088.7	6497.5	5222.9	3731.5	2695.6	2465.0	2451.5	2456.9	2473.2	2549.1	2524.7
30°	7248.7	6527.3	4873.2	3294.9	2492.1	2413.5	2397.2	2389.1	2413.5	2435.2	2416.3
32.5°	7446.6	6421.5	4612.8	2874.5	2391.8	2375.5	2343.0	2332.2	2345.7	2324.0	2334.9
35°	7533.4	6402.6	4273.8	2573.5	2313.1	2299.6	2280.6	2277.9	2280.6	2261.6	2245.4
37.5°	7582.3	6492.1	3886.0	2435.2	2264.4	2277.9	2234.5	2229.1	2180.3	2191.1	2199.3
40°	7666.3	6353.7	3571.4	2302.3	2234.5	2207.4	2169.5	2161.3	2128.7	2109.8	2128.7
42.5°	7544.3	6313.1	3262.3	2245.4	2191.1	2161.3	2134.2	2088.1	2077.2	2061.0	2050.1
45°	7446.6	6079.9	2985.7	2174.9	2139.6	2123.3	2071.8	2023.0	1982.3	1998.6	1974.2
47.5°	7519.9	5998.5	2711.8	2115.2	2069.1	2050.1	1998.6	1960.6	1920.0	1901.0	1895.6
50°	7812.7	6150.4	2481.3	2071.8	2009.4	1998.6	1930.8	1887.4	1849.4	1835.9	1841.3
52.5°	8512.4	6565.3	2324.0	1982.3	1952.5	1903.7	1865.7	1811.5	1787.1	1743.7	1770.8
55°	9399.1	7240.6	2283.3	1898.3	1882.0	1838.6	1787.1	1746.4	1700.3	1665.0	1656.9
56°	9683.9	7563.2	2250.8	1865.7	1838.6	1814.2	1746.4	1722.0	1648.8	1640.6	1635.2
57.5°	9914.3	7848.0	2256.2	1803.3	1776.2	1754.5	1713.8	1654.2	1605.4	1575.6	1589.1
60°	9393.7	7346.3	2153.2	1708.4	1703.0	1662.3	1605.4	1578.3	1518.6	1483.4	1475.3
62.5°	6982.9	4987.0	1746.4	1586.4	1583.7	1540.3	1475.3	1445.4	1434.5	1385.8	1385.8
65°	4021.6	3126.8	1510.5	1486.1	1464.4	1421.0	1355.9	1331.5	1304.4	1288.1	1274.6
67.5°	1716.6	1621.7	1372.2	1369.5	1345.0	1290.9	1225.7	1187.8	1152.5	1120.0	1136.2
70°	1244.7	1263.7	1239.3	1225.7	1195.9	1128.1	1071.1	1025.0	970.8	949.2	965.4
72.5°	987.1	1027.8	1063.0	1065.7	1030.5	951.8	889.5	827.1	767.4	737.6	751.2
75°	748.5	775.6	810.8	818.9	767.4	713.2	653.6	588.4	542.4	507.1	512.6
77.5°	539.6	534.2	566.7	561.3	536.9	499.0	444.7	385.1	333.6	301.0	303.7
80°	368.8	376.9	396.0	393.2	363.4	339.0	298.3	249.5	211.5	184.4	179.0
82.5°	257.6	271.2	287.4	273.9	249.5	225.1	195.3	160.0	130.1	108.4	103.0
85°	92.2	105.8	122.1	130.1	138.3	132.9	111.2	89.5	65.1	54.3	51.5
87.5°	18.9	21.7	24.4	24.4	24.4	21.7	18.9	18.9	16.3	8.1	8.1
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)