

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: P459264

Luminaire Tested: **GALN-SA7B-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36839 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

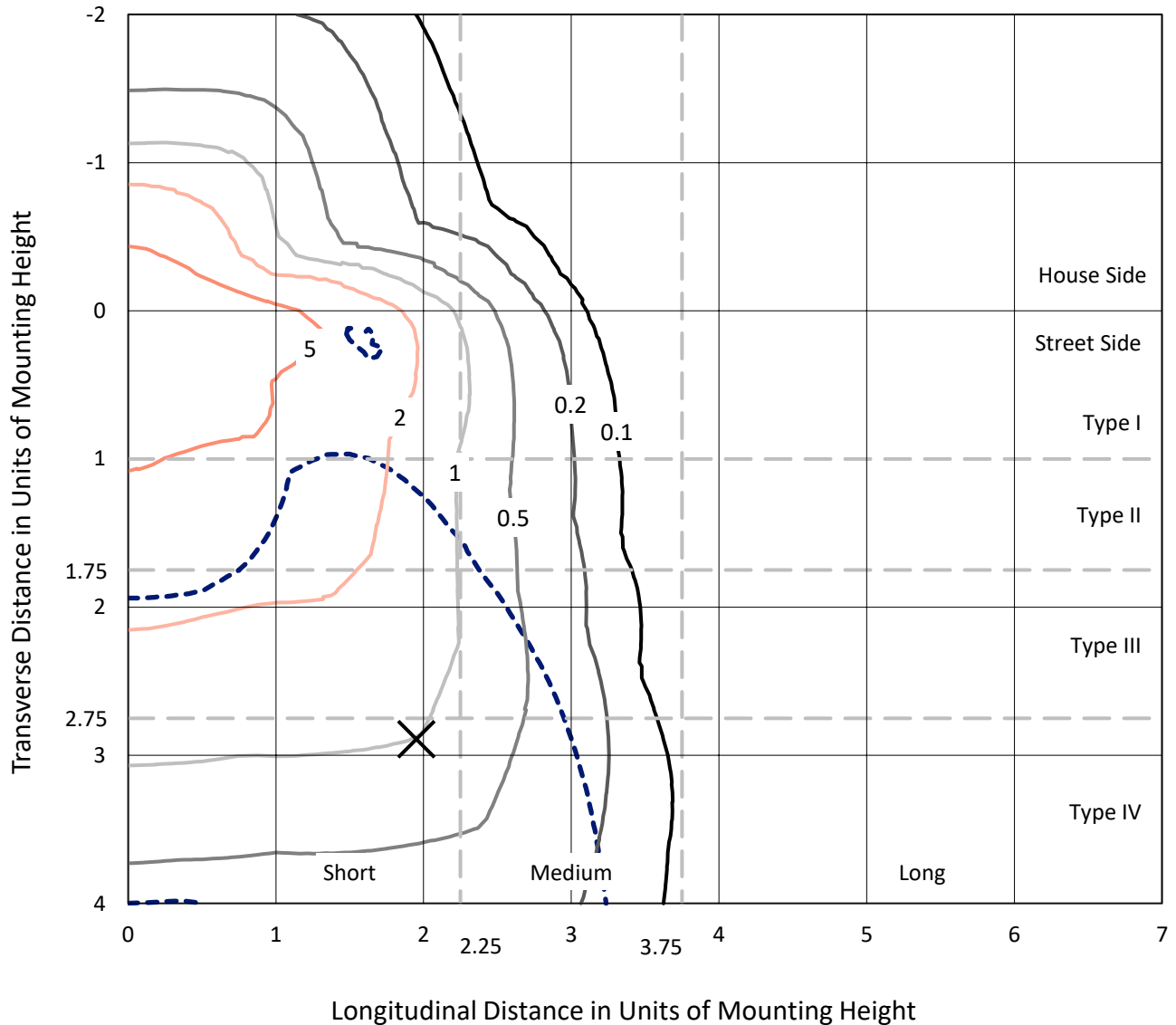
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459264
 CATALOG NUMBER: GALN-SA7B-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

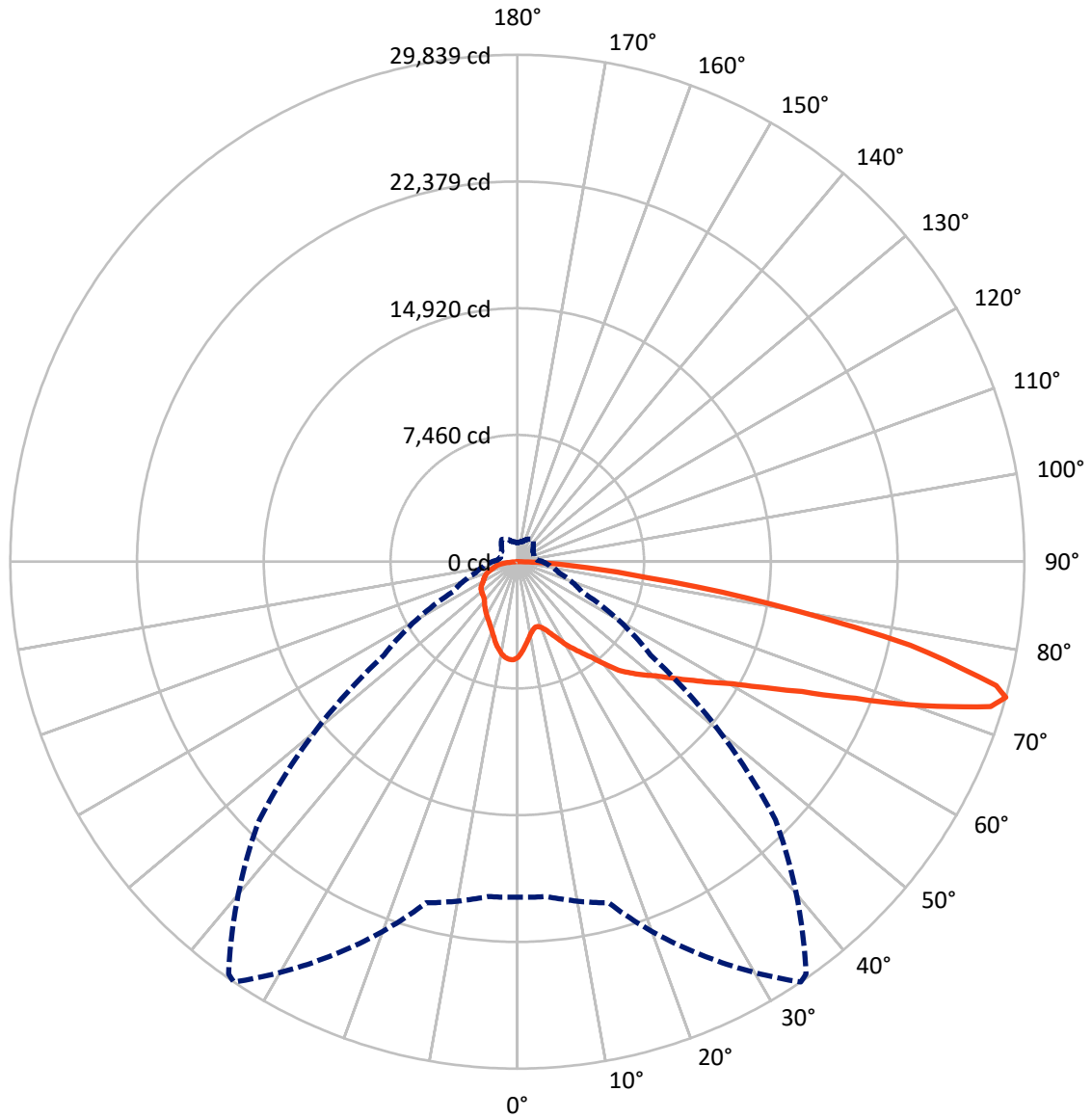
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

REPORT NUMBER: P459264
CATALOG NUMBER: GALN-SA7B-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P459264

CATALOG NUMBER: GALN-SA7B-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7839.6	0.0	7839.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	28999.4	0.0	28999.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	36839.0	0.0	36839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.5	1.4
10°-20°	1400.3	3.8
20°-30°	2308.7	6.3
30°-40°	3458.2	9.4
40°-50°	5027.3	13.6
50°-60°	7021.9	19.1
60°-70°	8791.1	23.9
70°-80°	7269.5	19.7
80°-90°	1050.4	2.9
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°	36839.0	100.0
0°-180°	36839.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459264

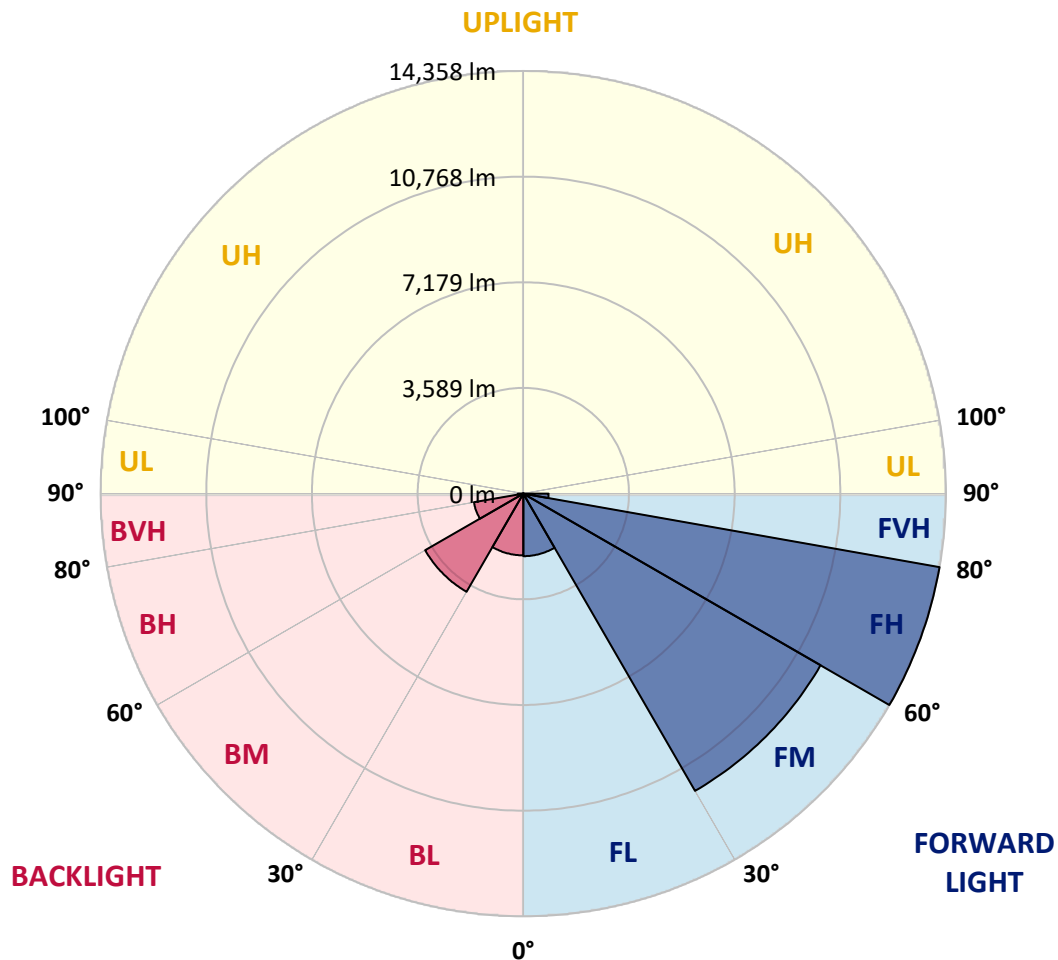
CATALOG NUMBER: GALN-SA7B-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2123.6	5.8			
FM	(30°-60°)	11657.4	31.6			
FH	(60°-80°)	14357.9	39.0			G5
FVH	(80°-90°)	860.5	2.3			G5
BL	(0°-30°)	2097.0	5.7	B3/2500		
BM	(30°-60°)	3850.1	10.5	B3/5000		
BH	(60°-80°)	1702.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	189.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P459264

CATALOG NUMBER: GALN-SA7B-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6
2.5°	5198.0	5224.6	5238.9	5289.9	5302.1	5318.5	5361.3	5418.5	5491.9	5557.2	5614.4
5°	4765.4	4806.2	4830.7	4875.6	4963.4	4971.5	5085.8	5216.4	5365.4	5504.2	5618.5
7.5°	4355.2	4400.1	4420.5	4502.1	4618.4	4636.8	4804.2	5010.3	5259.3	5469.5	5645.0
10°	4047.0	4069.5	4114.4	4175.6	4314.4	4326.6	4545.0	4820.5	5142.9	5453.2	5689.9
12.5°	3879.7	3891.9	3902.1	3967.4	4104.2	4122.5	4351.1	4663.3	5051.1	5465.4	5763.4
15°	3904.1	3908.2	3863.3	3875.6	3985.8	4012.3	4238.8	4559.3	4994.0	5496.0	5873.6
17.5°	4110.3	4096.0	3985.8	3928.6	4006.2	4018.4	4216.4	4518.4	4967.4	5553.2	5987.9
20°	4434.8	4414.4	4224.6	4098.0	4142.9	4153.1	4289.9	4549.1	4994.0	5647.0	6165.4
22.5°	4838.9	4830.7	4542.9	4389.9	4387.8	4387.8	4459.3	4659.3	5073.6	5775.6	6351.1
25°	5404.2	5361.3	4985.8	4787.8	4732.7	4728.7	4720.5	4840.9	5175.6	5912.3	6571.5
27.5°	5983.8	5910.3	5575.6	5271.5	5153.2	5138.9	5085.8	5098.0	5306.2	6067.5	6822.6
30°	6504.2	6457.3	6143.0	5806.2	5665.4	5632.8	5485.8	5418.5	5524.6	6347.0	7222.6
32.5°	6902.2	6873.6	6628.7	6322.6	6114.4	6108.3	5894.0	5838.9	5865.4	6685.8	7679.7
35°	7224.6	7234.8	7110.3	6845.0	6606.2	6571.5	6428.7	6359.3	6281.7	7175.6	8255.2
37.5°	7665.4	7687.9	7679.7	7451.1	7159.3	7167.5	7134.8	7020.5	6814.4	7722.6	8894.0
40°	8151.2	8167.5	8165.4	8077.7	7924.6	7932.8	7920.5	7789.9	7481.8	8418.5	9604.2
42.5°	8822.6	8745.0	8543.0	8630.8	8720.6	8759.3	8843.0	8718.5	8296.1	9161.4	10271.6
45°	9573.6	9426.7	8969.5	9010.4	9343.0	9416.5	9877.7	9706.3	9179.8	10014.5	11057.3
47.5°	10047.1	9902.2	9516.5	9508.3	9949.2	10020.6	10836.9	10773.7	9983.8	10934.9	12016.5
50°	10469.6	10449.2	10014.5	10118.5	10549.2	10655.3	11881.8	11822.7	10785.9	12020.6	13061.4
52.5°	11096.1	10930.8	10583.9	10798.1	11367.5	11506.3	12918.6	12745.1	11522.6	12979.8	14075.8
55°	11377.7	11339.0	11318.6	11504.3	12285.9	12385.9	13926.8	13528.8	12151.2	13792.1	14847.2
57.5°	12130.8	12059.4	12261.4	12388.0	13367.6	13520.6	14979.8	14347.2	12702.3	14437.0	15222.7
60°	13106.3	13067.6	13253.3	13481.9	14575.8	14808.4	16179.9	15045.2	13145.1	14761.5	15016.6
62.5°	14563.5	14559.4	14524.7	15014.5	16288.0	16502.3	17557.4	15724.8	13214.5	14518.6	13951.3
65°	16653.3	16579.9	16277.8	16812.5	18418.7	18669.7	18992.2	16104.4	12796.1	13271.7	11747.1
67.5°	18839.1	18835.0	18590.1	19284.0	21477.9	21737.1	20786.1	16020.7	11634.9	10751.2	8343.0
70°	20651.4	20563.6	20875.9	22724.9	25386.2	25686.2	22355.5	15035.0	9267.5	7100.1	4957.2
72.5°	21086.1	21090.2	21739.2	25378.0	29139.3	29186.2	22920.8	12185.9	6202.1	3916.4	2479.6
74°	19747.3	19782.0	20788.1	25510.6	29839.3	29627.0	21475.9	9577.7	4193.9	2557.2	1787.8
75°	18024.8	17806.4	19261.6	24627.0	29112.7	28884.2	19784.0	7685.8	3200.1	2042.9	1565.3
77.5°	9636.9	9859.4	12104.3	18377.9	23651.4	23388.2	13414.5	3685.8	1728.6	1422.5	1126.6
80°	3430.7	3783.7	5318.5	9616.5	15163.5	15245.2	6402.2	1689.8	1216.3	1049.0	795.9
82.5°	1400.0	1438.8	2283.7	4267.4	7700.1	7773.6	2614.3	1004.1	869.4	722.5	475.5
85°	546.9	563.3	1010.2	1918.4	3285.8	3500.1	904.1	530.6	534.7	414.3	242.9
87.5°	183.7	208.2	414.3	638.8	1116.3	1093.9	263.3	157.1	191.8	179.6	75.5
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: P459264

CATALOG NUMBER: GALN-SA7B-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6	5624.6
2.5°	5643.0	5681.7	5708.3	5736.8	5763.4	5771.5	5765.4	5783.8	5785.8	5787.9	5789.9
5°	5675.6	5728.7	5779.7	5808.3	5820.5	5810.3	5775.6	5757.2	5740.9	5728.7	5732.8
7.5°	5720.5	5796.0	5843.0	5855.2	5822.5	5775.6	5689.9	5622.5	5579.7	5551.1	5549.1
10°	5789.9	5863.4	5902.1	5867.4	5777.7	5663.4	5528.7	5402.1	5306.2	5277.6	5275.6
12.5°	5877.7	5961.3	5959.3	5857.2	5700.1	5496.0	5277.6	5130.7	5000.1	4934.8	4961.3
15°	5991.9	6055.2	5996.0	5812.3	5563.4	5283.8	5014.4	4814.4	4667.4	4598.0	4602.1
17.5°	6124.6	6179.7	6022.6	5732.8	5371.5	5012.3	4700.1	4510.3	4394.0	4342.9	4338.9
20°	6289.9	6306.2	6022.6	5594.0	5124.6	4696.0	4398.0	4265.4	4200.1	4173.5	4181.7
22.5°	6467.5	6434.8	5989.9	5398.1	4800.1	4365.4	4165.4	4106.2	4073.5	4069.5	4073.5
25°	6667.5	6575.6	5922.6	5132.7	4461.3	4079.7	3963.3	3973.5	3979.7	3979.7	3993.9
27.5°	6912.4	6728.7	5810.3	4798.0	4065.4	3814.4	3781.7	3853.1	3885.8	3891.9	3902.1
30°	7234.8	6896.0	5624.6	4379.7	3728.6	3575.6	3632.7	3728.6	3765.4	3787.8	3783.7
32.5°	7618.5	7079.7	5373.6	3961.3	3457.2	3408.2	3477.6	3575.6	3616.4	3628.6	3612.3
35°	8069.5	7287.9	5042.9	3569.4	3220.5	3249.0	3330.7	3361.3	3398.0	3398.0	3406.2
37.5°	8555.2	7455.2	4638.9	3210.3	3036.8	3140.9	3200.1	3171.5	3155.2	3134.7	3145.0
40°	9049.1	7579.7	4114.4	2855.2	2853.1	3028.6	3045.0	2963.3	2898.0	2877.6	2867.4
42.5°	9479.8	7657.3	3640.9	2579.6	2679.6	2918.4	2930.7	2800.0	2696.0	2634.7	2614.3
45°	9987.9	7747.1	3177.6	2351.1	2518.4	2830.7	2861.3	2685.8	2532.7	2404.1	2371.5
47.5°	10683.9	7951.2	2812.3	2173.5	2402.1	2775.6	2818.4	2591.9	2389.8	2222.5	2196.0
50°	11469.6	8230.8	2528.6	2053.1	2312.3	2726.6	2779.6	2496.0	2257.2	2071.5	2051.1
52.5°	12190.0	8381.8	2283.7	1944.9	2224.5	2636.8	2728.6	2426.6	2126.6	1920.4	1902.1
55°	12583.9	8136.9	2042.9	1838.8	2104.1	2520.5	2657.2	2330.7	2000.0	1840.8	1814.3
57.5°	12637.0	7630.7	1824.5	1724.5	1977.6	2377.6	2524.5	2214.3	1918.4	1785.7	1763.3
60°	12226.7	6875.6	1655.1	1630.6	1849.0	2216.4	2375.6	2112.3	1834.7	1724.5	1702.1
62.5°	11206.3	6055.2	1536.8	1544.9	1718.4	2047.0	2265.3	2014.3	1755.1	1657.2	1636.8
65°	9451.2	4998.0	1422.5	1457.2	1602.1	1914.3	2165.3	1932.7	1675.5	1606.2	1587.8
67.5°	6565.4	3608.2	1328.6	1365.3	1491.9	1779.6	2049.0	1844.9	1585.7	1549.0	1520.4
70°	3634.8	2220.4	1218.4	1261.2	1377.6	1628.6	1918.4	1712.3	1455.1	1438.8	1398.0
72.5°	1910.2	1414.3	1093.9	1140.8	1222.5	1434.7	1718.4	1567.4	1326.6	1257.2	1204.1
74°	1491.9	1159.2	1010.2	1059.2	1114.3	1320.4	1600.0	1463.3	1234.7	1153.1	1112.3
75°	1300.0	1032.7	938.8	1002.1	1051.0	1242.9	1508.2	1389.8	1183.7	1106.1	1069.4
77.5°	918.4	773.5	767.4	842.9	869.4	1089.8	1359.2	1265.3	1055.1	973.5	938.8
80°	644.9	579.6	608.2	655.1	691.8	963.3	1261.2	1093.9	865.3	769.4	757.2
82.5°	420.4	379.6	434.7	477.6	489.8	710.2	1018.4	830.6	630.6	512.3	475.5
85°	193.9	189.8	249.0	242.9	240.8	346.9	604.1	485.7	363.3	271.4	255.1
87.5°	49.0	46.9	61.2	51.0	61.2	53.1	55.1	14.3	2.0	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)