

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: P459262

Luminaire Tested: **GALN-SA7B-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37782 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

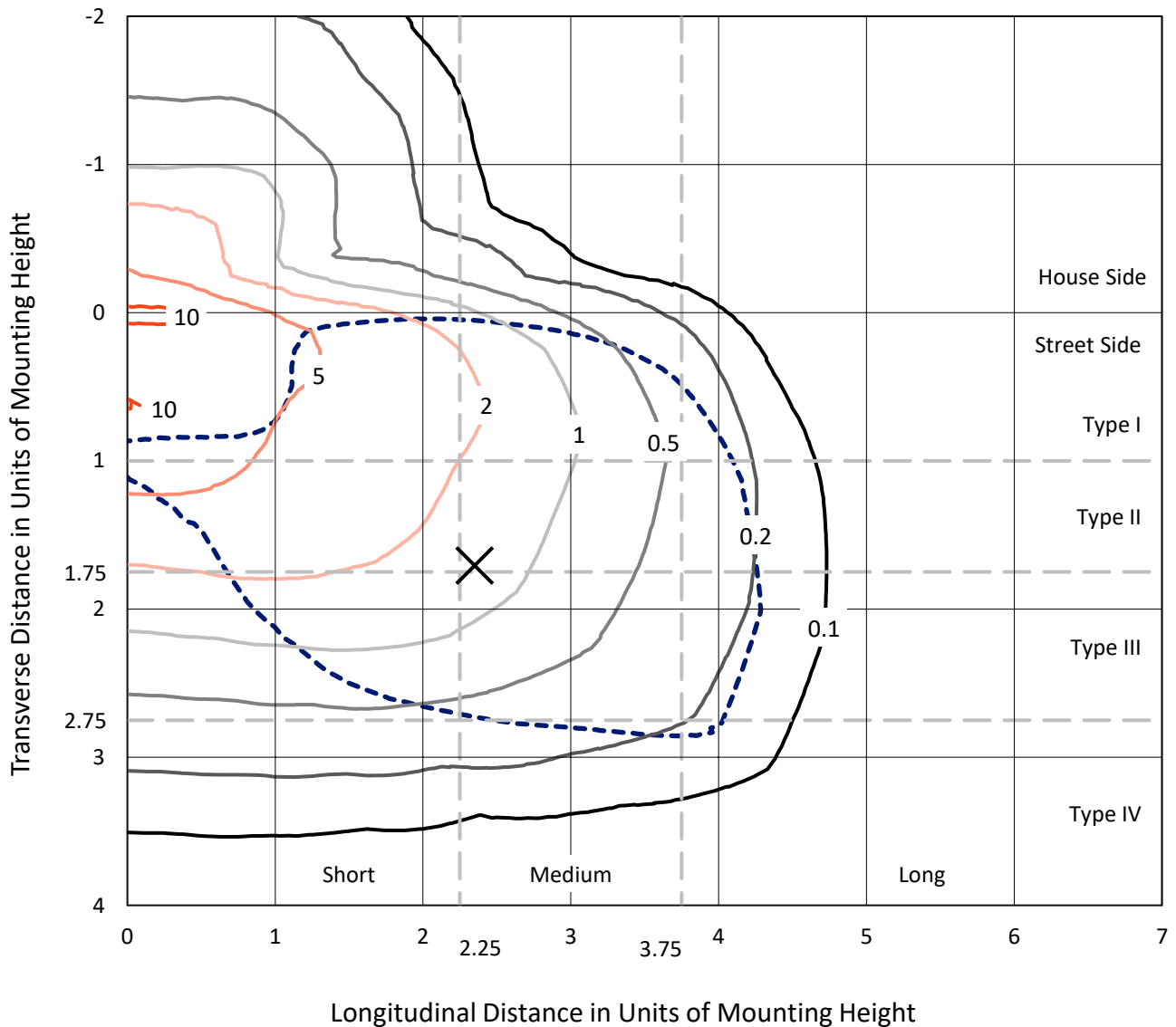
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459262
 CATALOG NUMBER: GALN-SA7B-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

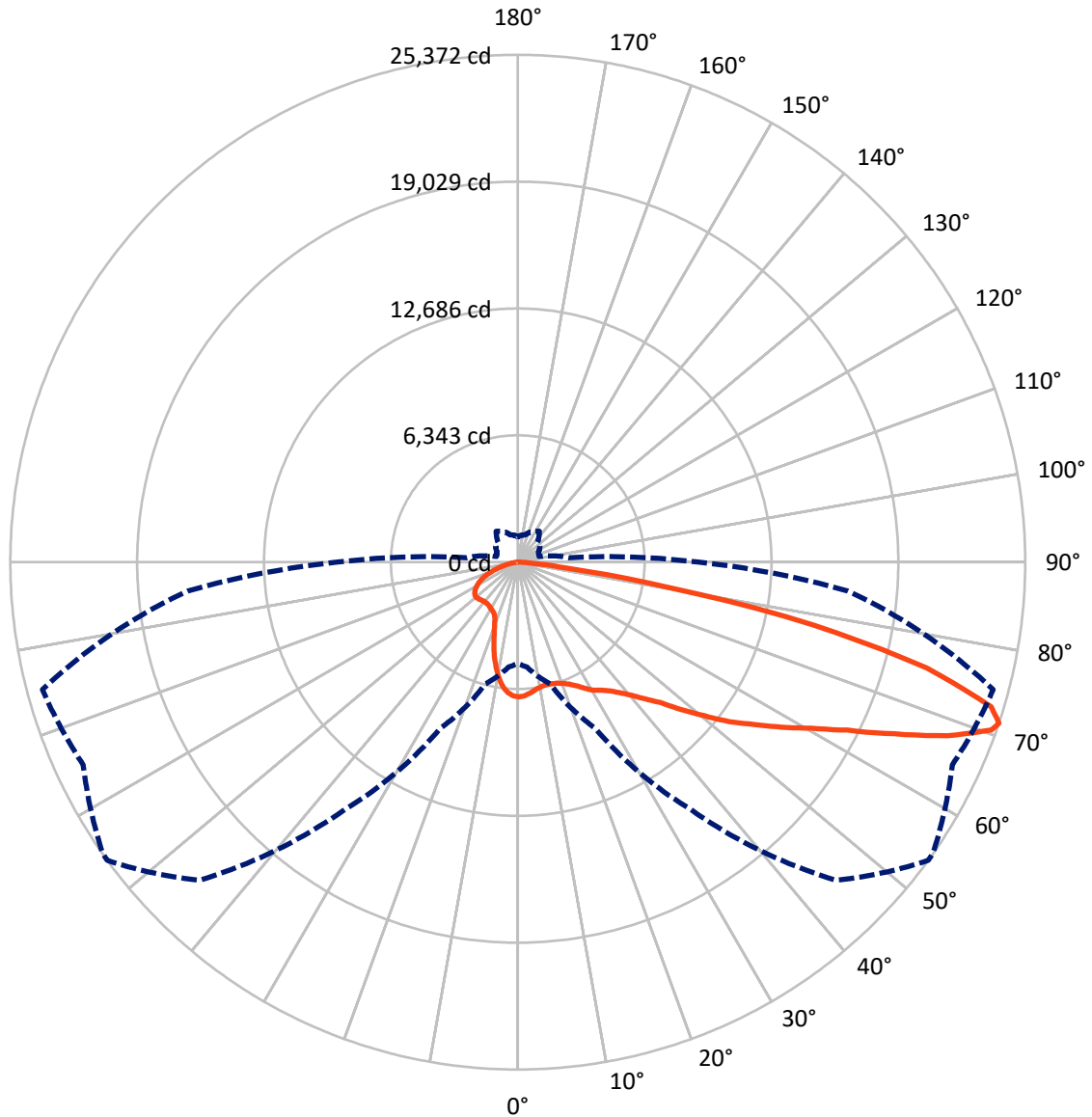
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P459262
CATALOG NUMBER: GALN-SA7B-735-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P459262

CATALOG NUMBER: GALN-SA7B-735-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6821.3	0.0	6821.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30960.7	0.0	30960.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	37782.0	0.0	37782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.7	1.6
10°-20°	1586.2	4.2
20°-30°	2641.1	7.0
30°-40°	3905.3	10.3
40°-50°	5500.7	14.6
50°-60°	7365.7	19.5
60°-70°	9283.9	24.6
70°-80°	6340.9	16.8
80°-90°	557.6	1.5
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°	37782.0	100.0
0°-180°	37782.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459262

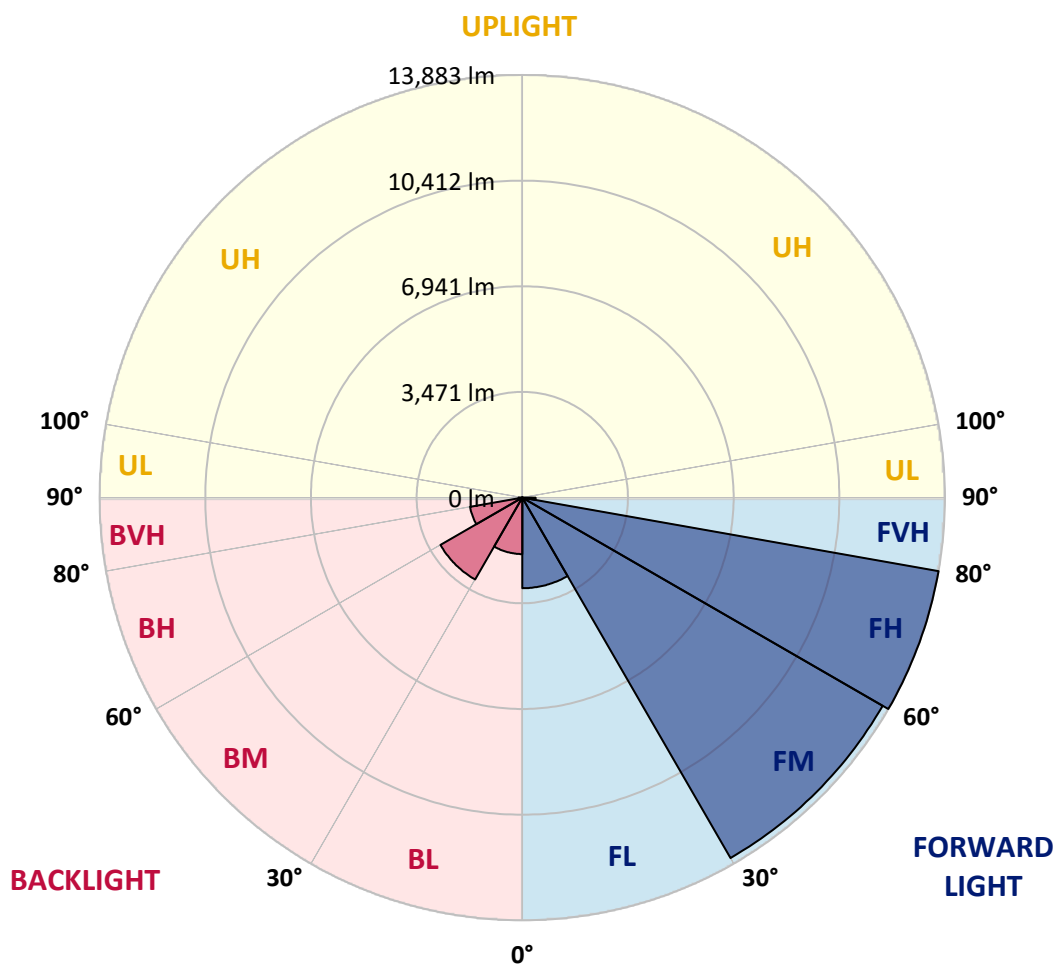
CATALOG NUMBER: GALN-SA7B-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2974.1	7.9			
FM	(30°-60°)	13668.2	36.2			
FH	(60°-80°)	13882.6	36.7			G5
FVH	(80°-90°)	435.9	1.2			G3/500
BL	(0°-30°)	1853.9	4.9	B3/2500		
BM	(30°-60°)	3103.5	8.2	B3/5000		
BH	(60°-80°)	1742.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	121.8	0.3			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 Medium





REPORT NUMBER: P459262

CATALOG NUMBER: GALN-SA7B-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9
2.5°	6512.3	6542.9	6551.1	6571.5	6614.3	6649.0	6683.7	6679.6	6728.6	6749.0	6767.4
5°	6222.5	6230.7	6261.3	6302.1	6377.6	6473.5	6567.4	6569.4	6689.8	6785.8	6832.7
7.5°	6010.3	6036.8	6057.2	6100.0	6179.6	6283.7	6432.7	6444.9	6659.2	6849.0	6949.0
10°	5871.5	5902.1	5924.5	5977.6	6057.2	6173.5	6334.7	6357.2	6636.8	6949.0	7124.5
12.5°	5744.9	5775.6	5796.0	5865.4	5969.4	6112.3	6293.9	6320.5	6644.9	7065.4	7316.4
15°	5822.5	5847.0	5838.8	5859.2	5928.6	6091.9	6310.3	6336.8	6675.6	7177.6	7506.2
17.5°	6167.4	6187.8	6120.5	6042.9	6010.3	6130.7	6361.3	6389.8	6736.8	7293.9	7700.1
20°	6675.6	6730.7	6583.7	6410.3	6253.1	6269.4	6467.4	6498.0	6822.5	7410.3	7898.0
22.5°	7336.8	7377.6	7198.0	6912.3	6622.5	6473.5	6626.6	6644.9	6951.1	7561.3	8114.3
25°	8114.3	8138.8	7889.9	7522.5	7104.1	6822.5	6845.0	6877.6	7163.3	7732.7	8306.2
27.5°	8869.5	8947.0	8659.3	8210.3	7659.2	7189.9	7145.0	7165.4	7393.9	7828.6	8438.8
30°	9765.4	9759.3	9455.2	8934.8	8228.6	7589.9	7428.6	7424.5	7518.4	7875.6	8534.8
32.5°	10479.7	10563.3	10265.4	9698.0	8879.7	8004.1	7624.5	7616.4	7614.3	7957.2	8677.6
35°	11291.9	11304.2	11030.7	10459.3	9583.7	8524.6	7898.0	7857.2	7810.3	8132.7	8871.5
37.5°	12018.5	12075.6	11824.6	11183.8	10275.6	9065.4	8273.5	8247.0	8104.1	8436.8	9181.7
40°	12585.8	12628.7	12477.6	11867.4	10957.2	9649.1	8751.1	8702.1	8528.6	8934.8	9596.0
42.5°	12771.5	12859.3	12918.5	12618.5	11740.9	10340.9	9338.8	9277.6	9145.0	9689.9	10073.5
45°	12785.8	12924.6	13236.8	13251.1	12528.7	11169.5	10024.6	9981.7	9971.5	10657.2	10745.0
47.5°	12677.6	12818.5	13343.0	13626.6	13230.7	12006.2	11014.4	10947.0	10953.1	11853.2	11498.0
50°	12416.4	12583.8	13220.5	13867.5	13779.7	12875.6	12059.3	12036.8	12163.4	13218.5	12279.7
52.5°	11924.6	12126.6	13094.0	14018.5	14187.9	13624.6	13247.0	13183.8	13504.2	14700.1	13134.8
55°	10563.3	10867.4	12630.7	14102.1	14575.6	14340.9	14316.4	14430.7	14855.2	16316.5	14075.6
57.5°	9853.1	10081.7	11624.6	14116.4	15065.4	15173.6	15565.4	15594.0	16336.9	18032.8	15138.9
60°	9465.4	9667.4	11073.6	14022.6	15749.1	16204.2	16843.0	16945.0	17783.8	19892.0	16240.9
62.5°	9126.6	9300.1	10742.9	13698.1	16520.5	17732.8	18498.1	18547.1	19426.7	21945.1	17328.7
65°	8328.6	8526.6	10077.6	13373.6	17185.8	19643.0	20694.0	20636.9	21175.7	23716.5	18010.3
67.5°	7253.1	7504.1	8834.8	12253.2	17514.4	21730.8	23167.5	23096.1	22902.2	24877.7	18206.3
70°	5879.6	6014.3	7245.0	10316.4	16202.2	22826.7	25120.6	25045.1	23971.6	25030.8	17279.7
71°	5059.2	5269.4	6308.2	9163.3	15110.3	22492.0	25371.6	25351.2	23973.7	24608.4	16581.8
72.5°	3949.0	4077.6	4996.0	7100.1	12843.0	20590.0	24751.2	24828.8	23453.2	23434.9	15143.0
75°	2498.0	2555.1	3134.7	4179.6	7047.0	14581.7	21128.7	21338.9	20824.7	19181.8	11261.3
77.5°	1451.0	1524.5	1877.6	2463.3	3044.9	7914.3	15118.5	15347.1	14469.5	10561.3	4610.2
80°	844.9	926.5	1236.7	1430.6	1398.0	2936.8	7698.0	8087.8	6265.4	2667.4	1293.9
82.5°	469.4	524.5	869.4	871.4	744.9	959.2	2422.5	2534.7	1787.8	1075.5	528.6
85°	340.8	385.7	561.2	508.2	357.1	412.2	842.9	883.7	722.5	453.1	171.4
87.5°	120.4	171.4	308.2	244.9	98.0	85.7	242.9	198.0	183.7	126.5	38.8
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: P459262
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9	6740.9
2.5°	6777.6	6781.7	6761.3	6724.5	6687.8	6640.9	6587.8	6547.0	6528.6	6526.6	6524.5
5°	6851.1	6861.3	6783.7	6669.4	6542.9	6387.8	6255.2	6104.1	6065.4	6004.1	6022.5
7.5°	6969.4	6963.3	6810.3	6567.4	6271.5	5942.9	5665.3	5504.1	5336.8	5289.8	5291.9
10°	7138.8	7100.1	6810.3	6359.2	5865.4	5377.6	4989.8	4744.9	4612.3	4502.1	4461.3
12.5°	7318.4	7220.5	6744.9	6067.4	5342.9	4744.9	4328.6	3998.0	3912.3	3822.5	3824.5
15°	7489.9	7326.6	6616.4	5657.2	4779.6	4069.4	3665.3	3467.4	3440.8	3451.0	3449.0
17.5°	7645.0	7402.1	6420.5	5200.0	4122.5	3489.8	3275.5	3289.8	3361.3	3412.3	3418.4
20°	7802.1	7447.0	6128.6	4587.8	3502.1	3138.8	3147.0	3259.2	3367.4	3436.8	3447.0
22.5°	7951.1	7467.4	5785.8	3995.9	3053.1	2989.8	3110.2	3230.6	3336.8	3404.1	3414.3
25°	8049.0	7420.5	5300.0	3377.6	2832.7	2936.8	3063.3	3165.3	3255.1	3324.5	3340.8
27.5°	8075.6	7269.4	4698.0	2877.6	2730.6	2885.7	3002.1	3077.6	3147.0	3212.3	3224.5
30°	8061.3	7047.0	4036.8	2583.7	2671.4	2826.6	2916.3	2971.5	3055.1	3106.1	3116.4
32.5°	8038.8	6787.8	3347.0	2426.5	2622.5	2771.4	2824.5	2873.5	2871.5	2851.0	2865.3
35°	8047.0	6477.6	2787.8	2332.7	2579.6	2730.6	2775.5	2714.3	2538.8	2530.6	2522.5
37.5°	8089.9	6171.5	2381.7	2267.4	2557.2	2724.5	2749.0	2467.4	2312.3	2240.8	2222.5
40°	8200.1	5814.3	2114.3	2218.4	2555.1	2771.4	2628.6	2342.9	2044.9	1906.1	1895.9
42.5°	8347.0	5463.3	1951.0	2187.8	2579.6	2842.9	2579.6	2167.4	1842.9	1761.2	1749.0
45°	8565.4	5061.3	1861.2	2173.5	2616.3	2869.4	2563.3	2038.8	1761.2	1695.9	1695.9
47.5°	8812.3	4677.6	1812.3	2163.3	2663.3	2851.0	2418.4	1998.0	1722.5	1730.6	1769.4
50°	9057.2	4344.9	1775.5	2140.8	2704.1	2840.8	2359.2	1995.9	1732.7	1836.7	1906.1
52.5°	9340.9	4110.2	1730.6	2104.1	2704.1	2775.5	2340.8	2036.8	1761.2	1791.9	1822.5
55°	9683.7	4036.8	1673.5	2024.5	2655.1	2612.3	2330.6	2095.9	1781.6	1710.2	1722.5
57.5°	10136.8	4155.1	1618.4	1924.5	2542.9	2442.9	2326.5	2112.3	1734.7	1675.5	1663.3
60°	10663.3	4389.8	1602.1	1822.5	2389.8	2298.0	2302.1	2065.3	1669.4	1608.2	1618.4
62.5°	11032.7	4530.6	1591.8	1744.9	2222.5	2138.8	2242.9	2008.2	1640.8	1587.8	1598.0
65°	11032.7	4359.2	1498.0	1626.5	2006.1	1947.0	2171.4	1936.7	1604.1	1542.9	1532.7
67.5°	10614.4	3859.2	1355.1	1449.0	1767.4	1728.6	2071.4	1851.0	1549.0	1502.1	1477.6
70°	9524.6	2926.6	1175.5	1240.8	1465.3	1500.0	1942.9	1734.7	1457.2	1400.0	1363.3
71°	9045.0	2549.0	1100.0	1134.7	1349.0	1400.0	1881.6	1685.7	1416.3	1334.7	1269.4
72.5°	8120.5	2147.0	985.7	1000.0	1153.1	1244.9	1753.1	1591.8	1338.8	1222.5	1149.0
75°	6169.4	1567.4	793.9	785.7	853.1	987.8	1483.7	1418.4	1173.5	1016.3	973.5
77.5°	2665.3	853.1	593.9	600.0	579.6	749.0	1167.4	1218.4	1006.1	826.5	787.8
80°	808.2	491.8	406.1	414.3	387.8	502.0	822.5	955.1	808.2	642.9	589.8
82.5°	414.3	293.9	277.6	273.5	246.9	283.7	498.0	653.1	577.6	402.0	355.1
85°	179.6	157.1	136.7	132.7	116.3	102.0	177.6	326.5	306.1	224.5	214.3
87.5°	44.9	40.8	26.5	24.5	14.3	2.0	0.0	0.0	0.0	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)