

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: P456940

Luminaire Tested: **GALN-SA8B-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38107 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

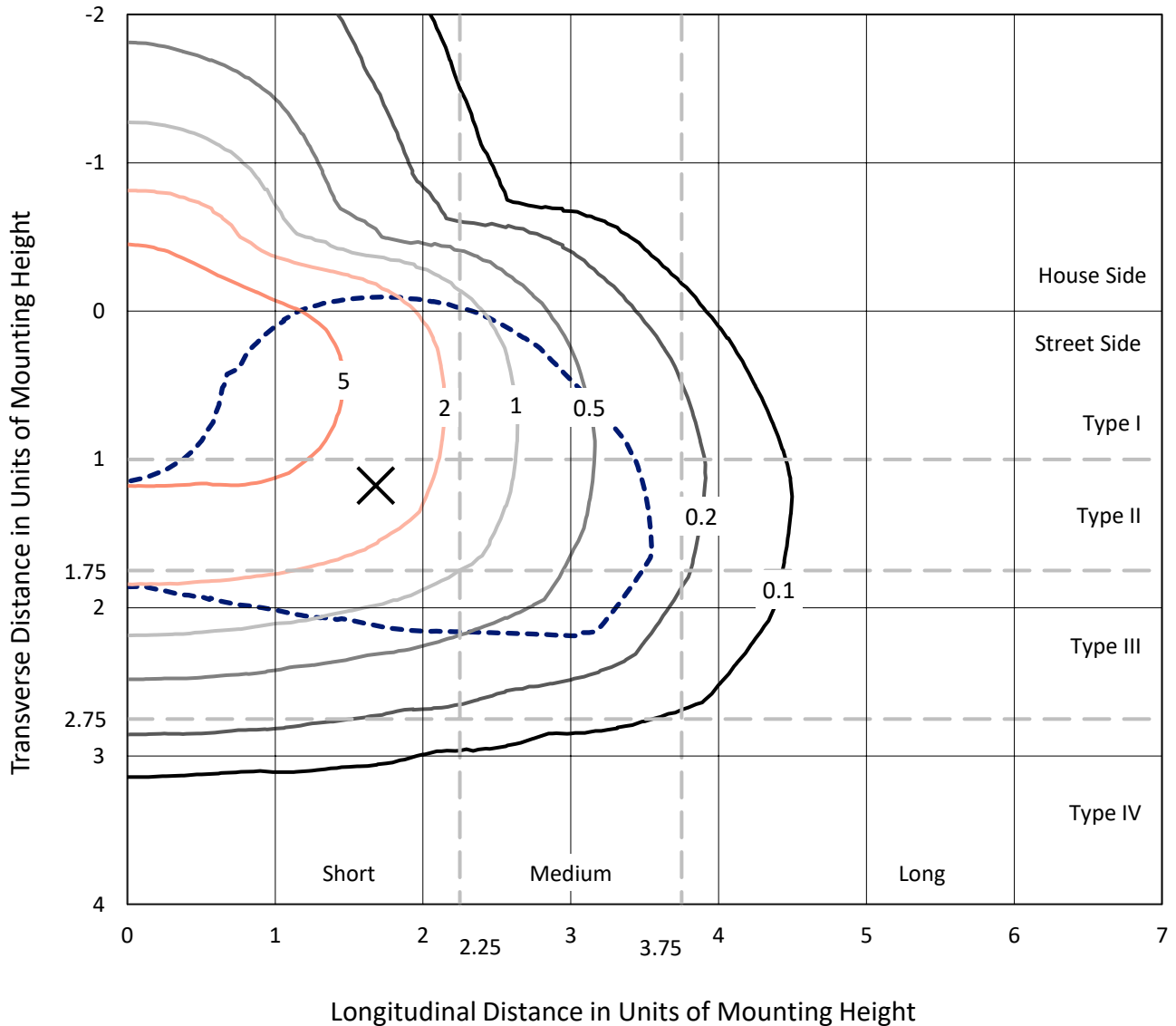
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456940
 CATALOG NUMBER: GALN-SA8B-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

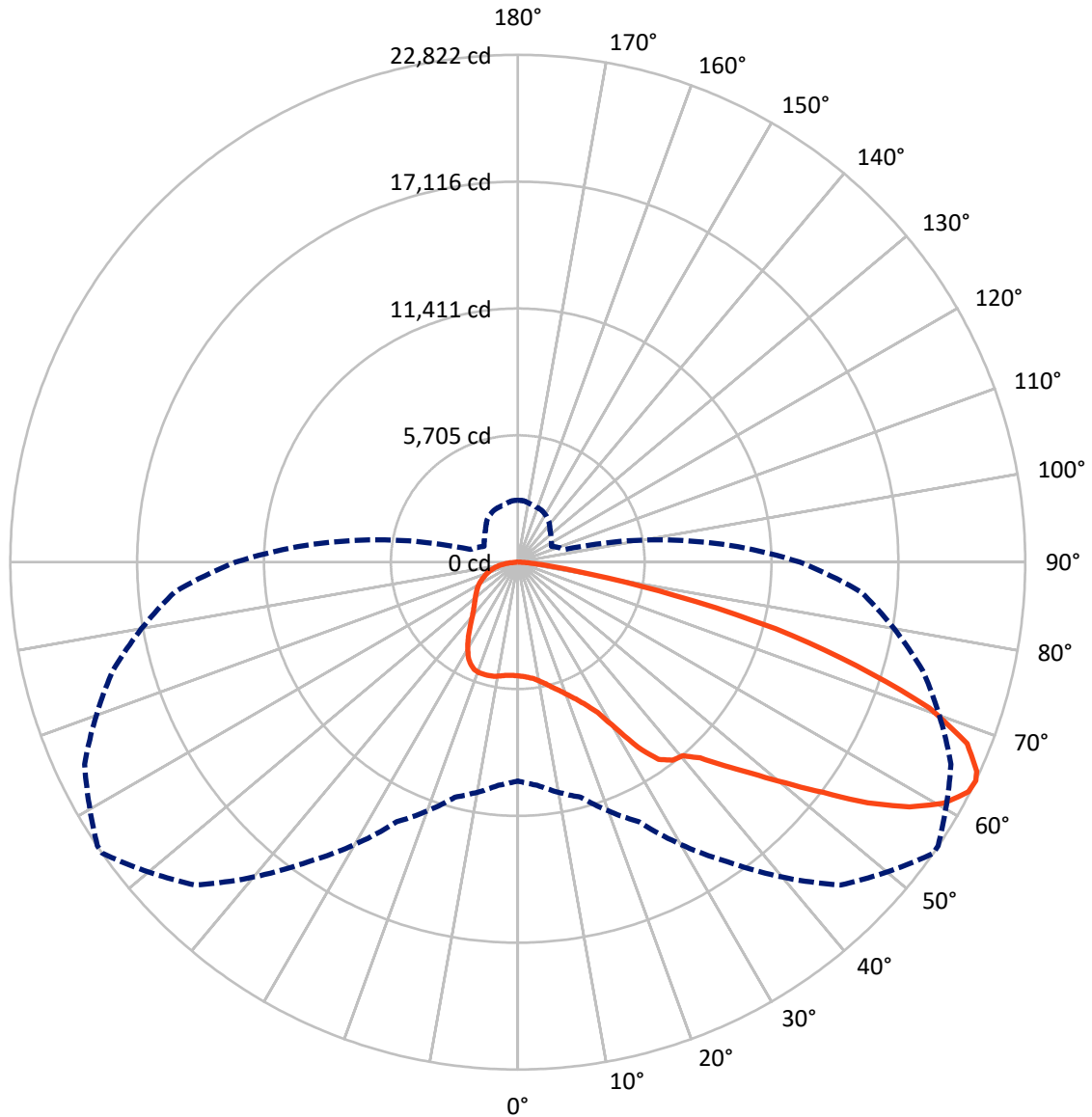
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

REPORT NUMBER: P456940
CATALOG NUMBER: GALN-SA8B-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P456940

CATALOG NUMBER: GALN-SA8B-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9256.9	0.0	9256.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	28850.1	0.0	28850.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	38107.0	0.0	38107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.3	1.3
10°-20°	1569.3	4.1
20°-30°	2793.7	7.3
30°-40°	4298.4	11.3
40°-50°	6093.3	16.0
50°-60°	8819.9	23.1
60°-70°	9127.7	24.0
70°-80°	4274.5	11.2
80°-90°	632.8	1.7
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°	38107.0	100.0
0°-180°	38107.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456940

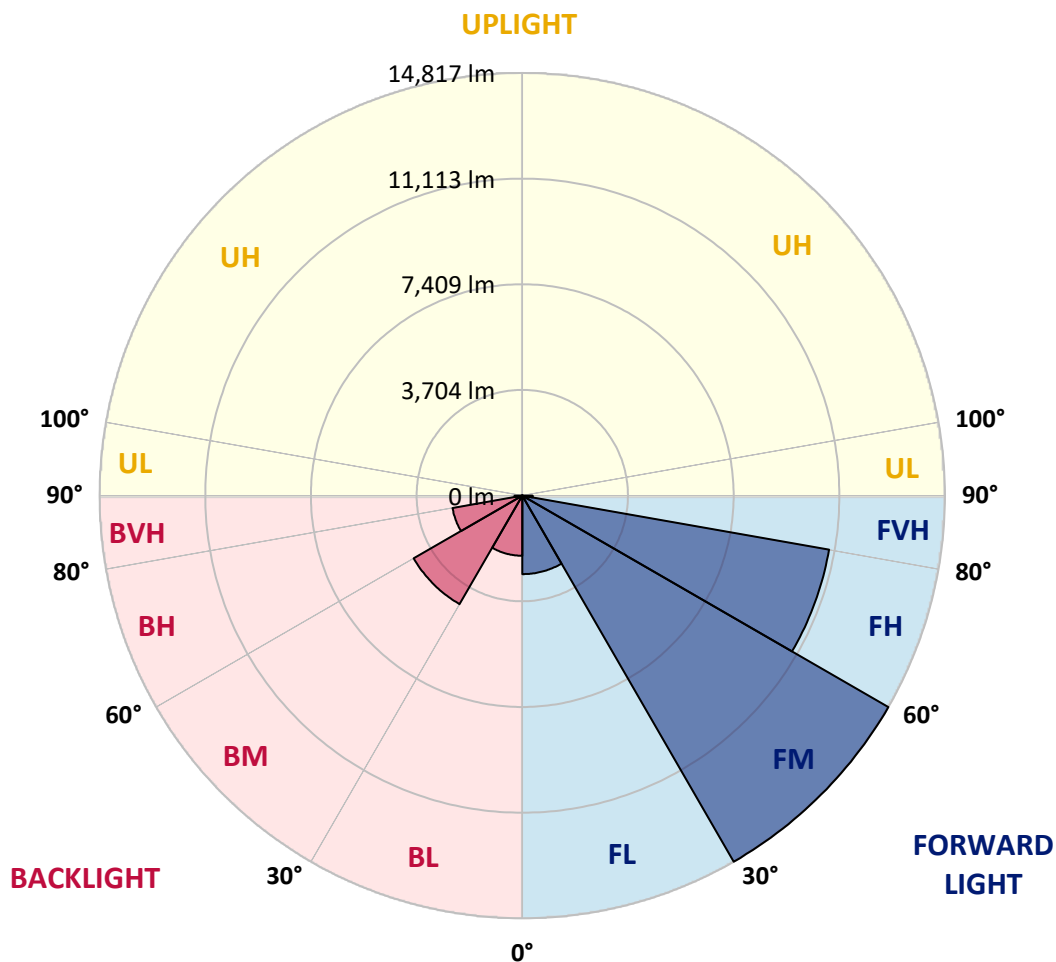
CATALOG NUMBER: GALN-SA8B-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2751.9	7.2			
FM	(30°-60°)	14817.0	38.9			
FH	(60°-80°)	10918.8	28.7			G4/12000
FVH	(80°-90°)	362.3	1.0			G3/500
BL	(0°-30°)	2108.4	5.5	B3/2500		
BM	(30°-60°)	4394.6	11.5	B3/5000		
BH	(60°-80°)	2483.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	270.5	0.7			G3/500
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 Short





REPORT NUMBER: P456940

CATALOG NUMBER: GALN-SA8B-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8
2.5°	5170.2	5168.0	5174.4	5168.0	5172.3	5157.4	5151.0	5155.3	5148.9	5138.3	5119.2
5°	5233.9	5231.8	5233.9	5225.4	5229.6	5221.1	5206.3	5210.5	5199.9	5176.5	5148.9
7.5°	5342.2	5333.7	5333.7	5331.6	5323.1	5310.4	5299.7	5295.5	5284.9	5255.1	5212.6
10°	5482.4	5482.4	5484.5	5467.5	5478.2	5454.8	5444.2	5442.1	5405.9	5367.7	5308.2
12.5°	5667.2	5677.8	5671.5	5663.0	5658.7	5650.2	5614.1	5622.6	5582.2	5516.4	5444.2
15°	5896.6	5913.6	5903.0	5898.7	5888.1	5856.3	5841.4	5835.0	5781.9	5686.3	5590.7
17.5°	6200.4	6179.1	6170.6	6160.0	6115.4	6092.0	6066.5	6062.3	6015.6	5903.0	5754.3
20°	6465.9	6495.6	6478.6	6468.0	6423.4	6378.8	6359.7	6353.3	6312.9	6189.7	5951.8
22.5°	6782.4	6788.8	6795.1	6769.6	6748.4	6714.4	6680.4	6669.8	6654.9	6527.5	6236.5
25°	7120.1	7145.6	7124.4	7098.9	7073.4	7071.3	7103.1	7098.9	7092.5	6969.3	6614.6
27.5°	7670.3	7693.6	7700.0	7672.4	7574.7	7583.2	7655.4	7678.8	7776.5	7572.6	7101.0
30°	7980.4	8003.8	8056.9	8161.0	8316.0	8452.0	8626.1	8679.2	8772.7	8388.2	7678.8
32.5°	8171.6	8180.1	8275.7	8469.0	8934.1	9441.8	9915.5	9934.6	9994.1	9454.6	8207.7
35°	8473.2	8479.6	8556.0	8768.5	9314.4	10159.8	10892.6	10916.0	10867.1	9785.9	8454.1
37.5°	8844.9	8861.9	8910.8	9087.1	9739.2	10760.9	11298.3	11281.3	10848.0	10049.3	8889.5
40°	9386.6	9386.6	9329.2	9567.1	10187.4	11105.0	11440.6	11410.9	11296.2	10811.9	9552.3
42.5°	9864.5	9856.0	9992.0	10153.4	10748.2	11636.0	12037.5	12086.4	12275.4	11769.9	10306.3
45°	10486.9	10525.1	10601.6	10894.7	11701.9	12543.1	13061.3	13108.1	13375.7	12897.8	11187.9
47.5°	11115.6	11128.4	11368.4	11759.2	12882.9	13772.9	14197.8	14274.2	14518.5	14216.9	12137.3
50°	11561.7	11682.8	12067.2	12683.3	14100.1	15272.6	15603.9	15695.3	16126.5	15652.8	13244.0
52.5°	12033.3	12152.2	12621.7	13560.5	15497.7	16806.2	17214.0	17275.6	17723.8	17105.7	14376.2
55°	12436.8	12547.3	13080.5	14338.0	16610.8	18371.7	19110.9	19038.7	19253.2	18225.1	15249.2
57.5°	12502.7	12591.9	13263.1	14835.0	17447.7	19714.2	20774.1	20816.6	20568.1	19062.0	15969.3
60°	11992.9	12175.6	12946.6	14781.9	17823.7	20648.8	22014.6	22044.3	21339.1	19491.1	16256.1
62.5°	11090.1	11071.0	12003.5	13928.0	17296.9	20861.2	22745.3	22713.4	21640.8	19285.1	15977.8
64°	9843.3	10072.7	10943.6	12878.7	16447.2	20534.1	22821.8	22804.8	21496.3	18856.0	15504.1
65°	9082.8	9070.1	9930.4	12020.5	15601.8	20041.3	22685.8	22662.5	21194.7	18471.5	15136.6
67.5°	6557.2	6587.0	7436.6	9276.1	12683.3	18114.7	21800.1	21713.0	20005.2	17197.1	13738.9
70°	3972.1	3989.1	4656.1	6153.6	9104.1	14643.8	19650.4	19654.7	18184.8	15293.8	11693.4
72.5°	2092.3	2136.9	2404.5	3494.2	5529.1	10274.5	15941.7	16319.8	15612.4	13052.9	9237.9
75°	1164.0	1170.4	1359.5	1722.7	2820.9	5750.1	11982.3	12090.6	12360.4	10506.0	6831.2
77.5°	887.9	900.6	960.1	1113.1	1535.8	2665.8	7251.8	7795.6	8711.1	7406.9	3897.8
80°	720.1	732.8	783.8	875.1	1021.7	1263.9	3368.9	3662.0	4662.5	3288.2	1520.9
82.5°	560.8	552.3	618.1	677.6	743.4	747.7	1382.8	1529.4	1899.0	1414.7	658.5
85°	416.3	416.3	469.4	456.7	480.1	437.6	609.6	673.4	760.4	601.1	305.9
87.5°	165.7	182.7	308.0	276.1	214.5	172.1	225.2	237.9	263.4	235.8	127.4
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: P456940

CATALOG NUMBER: GALN-SA8B-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8	5112.8
2.5°	5121.3	5127.7	5112.8	5102.2	5097.9	5091.6	5085.2	5087.3	5095.8	5104.3	5102.2
5°	5146.8	5148.9	5123.4	5110.7	5102.2	5093.7	5093.7	5100.1	5117.1	5129.8	5129.8
7.5°	5210.5	5210.5	5174.4	5151.0	5138.3	5123.4	5119.2	5121.3	5134.1	5151.0	5153.2
10°	5310.4	5301.9	5255.1	5219.0	5195.7	5159.5	5127.7	5110.7	5117.1	5127.7	5127.7
12.5°	5431.4	5408.1	5348.6	5299.7	5242.4	5174.4	5108.6	5074.6	5072.5	5083.1	5078.8
15°	5561.0	5535.5	5452.7	5363.5	5263.6	5163.8	5085.2	5036.3	4998.1	4987.5	5010.9
17.5°	5711.8	5658.7	5544.0	5420.8	5272.1	5142.5	5019.3	4919.5	4851.5	4832.4	4838.8
20°	5894.5	5824.4	5669.3	5476.0	5265.7	5066.1	4874.9	4741.1	4630.6	4596.6	4600.9
22.5°	6147.3	6026.2	5798.9	5503.7	5212.6	4921.6	4656.1	4481.9	4348.1	4295.0	4326.9
25°	6434.0	6302.3	5922.1	5497.3	5074.6	4690.1	4397.0	4169.7	4048.6	3970.0	3987.0
27.5°	6829.1	6595.5	6053.8	5439.9	4877.0	4407.6	4067.7	3853.2	3742.7	3702.4	3721.5
30°	7334.7	6975.7	6196.1	5284.9	4564.8	4050.7	3736.4	3596.2	3530.3	3479.3	3496.3
32.5°	7700.0	7243.3	6228.0	5023.6	4227.0	3725.7	3511.2	3407.1	3334.9	3286.0	3296.7
35°	7961.3	7470.6	6213.1	4702.8	3874.4	3458.1	3332.8	3247.8	3131.0	3024.8	3005.7
37.5°	8311.8	7755.2	6104.8	4352.4	3526.1	3277.6	3188.3	3031.2	2863.3	2721.0	2714.7
40°	8849.2	8088.7	5873.3	3940.3	3228.7	3143.7	3035.4	2831.5	2650.9	2536.2	2527.7
42.5°	9403.6	8396.7	5558.9	3507.0	2984.4	3003.5	2871.8	2670.0	2559.6	2485.2	2476.7
45°	10081.2	8730.2	5219.0	3131.0	2803.9	2871.8	2729.5	2612.7	2546.8	2498.0	2485.2
47.5°	10814.0	9072.2	4836.7	2793.2	2650.9	2750.8	2670.0	2616.9	2580.8	2546.8	2532.0
50°	11604.2	9454.6	4477.7	2521.4	2512.9	2625.4	2663.7	2644.6	2623.3	2612.7	2599.9
52.5°	12470.8	9845.4	4176.1	2330.2	2391.8	2536.2	2665.8	2680.7	2680.7	2674.3	2665.8
55°	13057.1	10117.3	3870.2	2175.1	2268.6	2464.0	2661.5	2718.9	2740.1	2731.6	2723.1
57.5°	13490.4	10266.0	3485.7	2041.3	2164.5	2393.9	2638.2	2723.1	2744.4	2755.0	2750.8
60°	13579.6	10127.9	2982.3	1901.1	2051.9	2291.9	2553.2	2659.4	2687.0	2752.9	2759.3
62.5°	13178.2	9703.1	2481.0	1763.0	1913.9	2136.9	2438.5	2587.2	2642.4	2744.4	2755.0
64°	12685.4	9227.3	2202.7	1675.9	1824.6	2049.8	2381.2	2568.1	2640.3	2776.3	2784.7
65°	12324.3	8881.0	2028.6	1620.7	1767.3	1992.4	2349.3	2574.5	2659.4	2825.1	2837.9
67.5°	10994.6	7689.4	1678.1	1491.1	1631.3	1894.7	2355.7	2627.6	2655.2	2844.2	2842.1
70°	9097.7	6121.8	1406.2	1372.2	1499.6	1816.1	2330.2	2542.6	2544.7	2670.0	2640.3
72.5°	6812.1	4524.4	1219.3	1249.0	1353.1	1629.2	2200.6	2427.9	2391.8	2408.8	2379.0
75°	4679.5	2992.9	1049.3	1117.3	1200.1	1440.2	2017.9	2204.9	2147.5	2126.3	2105.0
77.5°	2498.0	1654.7	873.0	987.7	1043.0	1244.7	1760.9	1941.5	1882.0	1799.1	1771.5
80°	1011.1	779.6	703.1	817.8	849.7	1002.6	1465.7	1578.2	1533.6	1389.2	1342.5
82.5°	507.7	467.3	552.3	643.6	645.7	715.8	1089.7	1195.9	1096.1	919.8	879.4
85°	265.5	274.0	380.2	452.4	399.3	386.6	654.2	724.3	664.9	577.8	520.4
87.5°	95.6	110.5	199.7	197.5	140.2	74.3	144.4	70.1	38.2	23.4	29.7
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)