

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: P531155

Luminaire Tested: **GALN-SA6B-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16012 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

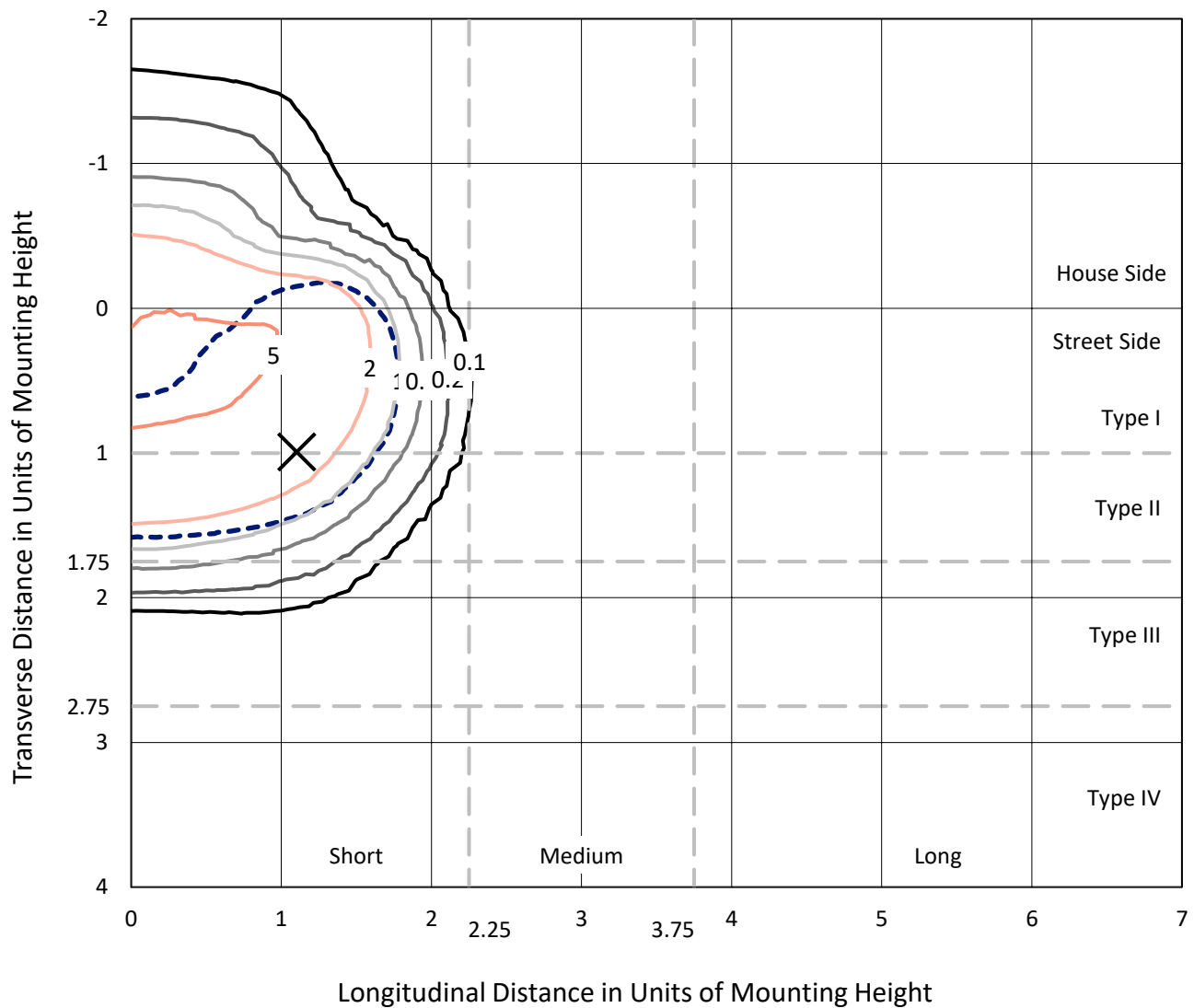
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531155
 CATALOG NUMBER: GALN-SA6B-830-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

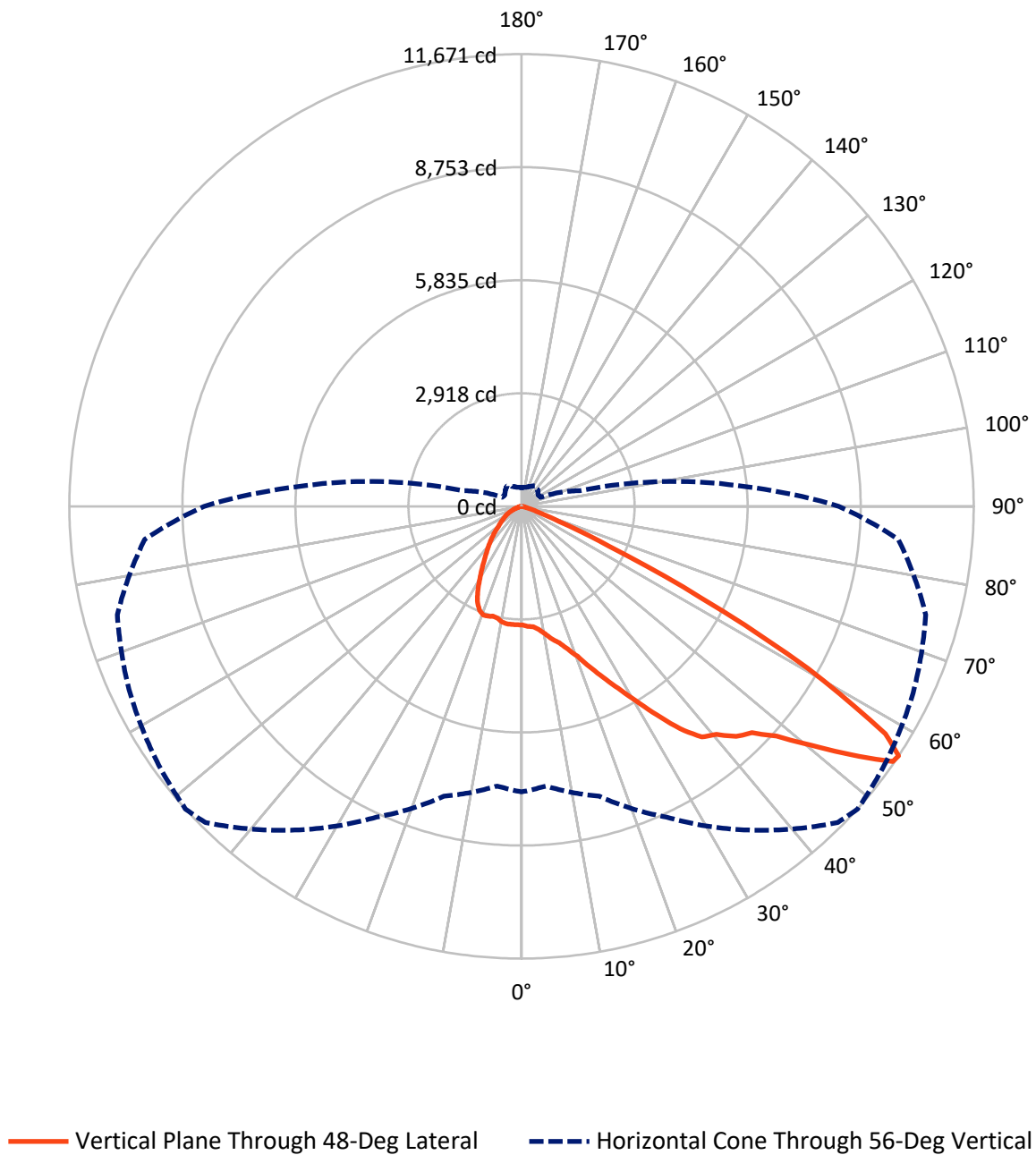
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P531155
CATALOG NUMBER: GALN-SA6B-830-U-T3-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3482.3	0.0	3482.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12529.7	0.0	12529.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	16012.0	0.0	16012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.9	1.9
10°-20°	952.1	5.9
20°-30°	1726.9	10.8
30°-40°	2712.6	16.9
40°-50°	3957.1	24.7
50°-60°	4767.6	29.8
60°-70°	1395.9	8.7
70°-80°	177.1	1.1
80°-90°	24.8	0.2
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°	16012.0	100.0
0°-180°	16012.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531155

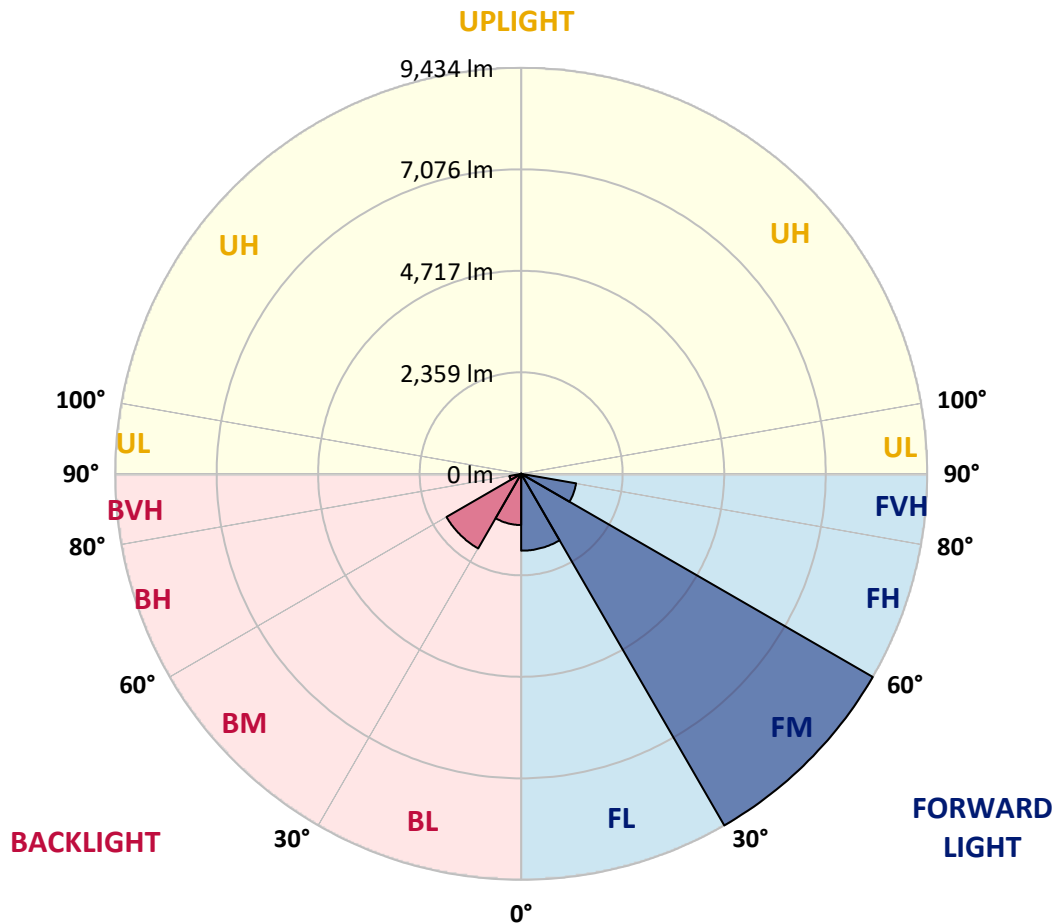
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1786.6	11.2			
FM	(30°-60°)	9434.3	58.9			
FH	(60°-80°)	1296.3	8.1			G1/1800
FVH	(80°-90°)	12.5	0.1			G1/100
BL	(0°-30°)	1190.2	7.4	B3/2500		
BM	(30°-60°)	2003.0	12.5	B2/2500		
BH	(60°-80°)	276.7	1.7	B1/500		G1/500
BVH	(80°-90°)	12.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



REPORT NUMBER: P531155

CATALOG NUMBER: GALN-SA6B-830-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3
2.5°	3113.7	3099.1	3099.1	3075.8	3102.0	3090.4	3099.1	3070.0	3099.1	3055.4	3090.4
5°	3128.3	3131.2	3119.5	3134.1	3134.1	3151.6	3122.4	3148.7	3163.3	3131.2	3116.6
7.5°	3204.1	3209.9	3207.0	3195.3	3218.6	3215.7	3212.8	3192.4	3198.2	3186.6	3169.1
10°	3352.8	3349.8	3364.4	3335.3	3317.8	3338.2	3344.0	3311.9	3288.6	3279.9	3224.5
12.5°	3568.5	3533.5	3513.1	3484.0	3492.7	3463.5	3516.0	3460.6	3449.0	3396.5	3341.1
15°	3743.4	3737.6	3740.5	3693.9	3641.4	3653.0	3653.0	3623.9	3606.4	3542.3	3463.5
17.5°	4102.0	3979.6	4005.8	3947.5	3903.8	3900.9	3874.6	3880.5	3833.8	3699.7	3580.2
20°	4381.9	4329.4	4288.6	4189.5	4122.4	4142.8	4131.2	4102.0	4087.5	3912.5	3743.4
22.5°	4632.6	4650.1	4583.1	4556.8	4463.5	4472.3	4495.6	4469.4	4358.6	4177.8	3927.1
25°	4985.4	4965.0	4874.6	4842.5	4755.1	4787.2	4877.5	4857.1	4787.2	4460.6	4070.0
27.5°	5402.3	5332.3	5349.8	5204.1	5119.5	5209.9	5317.8	5419.8	5221.6	4793.0	4239.1
30°	5696.8	5623.9	5618.1	5612.2	5591.8	5696.8	5822.1	5915.4	5755.1	5125.3	4518.9
32.5°	5842.5	5860.0	5909.6	5892.1	6070.0	6285.7	6416.9	6551.0	6349.8	5667.6	4889.2
35°	6230.3	6119.5	6230.3	6242.0	6425.6	6883.4	7049.5	7370.2	7320.7	6434.4	5341.1
37.5°	6457.7	6449.0	6463.5	6574.3	6752.2	7317.8	7553.9	7801.7	7708.4	6895.0	5903.8
40°	6833.8	6857.1	6854.2	6938.8	7134.1	7644.3	7740.5	7941.7	7950.4	7533.5	6731.8
42.5°	7437.3	7344.0	7282.8	7370.2	7644.3	7927.1	8119.5	8078.7	8367.3	8309.0	7795.9
45°	7979.6	8035.0	7944.6	8090.4	8189.5	8341.1	8335.2	8422.7	8790.1	9067.0	8597.6
47.5°	8486.9	8521.8	8565.6	8664.7	8880.4	8903.8	8854.2	8816.3	9323.6	9609.3	9218.6
50°	8790.1	8822.1	9026.2	9204.1	9606.4	9658.9	9688.0	9591.8	9935.8	9967.9	9804.6
52.5°	8708.4	8743.4	9029.1	9615.1	10256.5	10737.6	10650.1	10486.8	10466.4	10591.8	10346.9
55°	7985.4	7953.3	8346.9	9259.4	10460.6	11615.1	11626.8	11454.8	11125.3	11040.8	10265.3
56°	7370.2	7244.9	7746.3	8848.4	10198.2	11539.3	11670.5	11486.8	11177.8	10798.8	9760.9
57.5°	6037.9	6157.4	6656.0	7568.5	9291.5	10994.1	11069.9	11026.2	10793.0	10157.4	8588.9
60°	3329.4	3539.3	3979.6	5096.2	6615.1	8437.3	8498.5	8854.2	8897.9	7778.4	5909.6
62.5°	1414.0	1390.7	1848.4	2670.5	3766.8	5093.3	5207.0	5571.4	5638.5	4484.0	2965.0
65°	574.3	606.4	836.7	1344.0	1991.2	2320.7	2481.0	2600.6	2822.1	1851.3	1093.3
67.5°	379.0	376.1	492.7	766.8	1072.9	1035.0	1035.0	1093.3	1011.7	755.1	472.3
70°	271.1	279.9	352.8	530.6	667.6	495.6	475.2	454.8	516.0	498.5	381.9
72.5°	177.8	189.5	236.2	317.8	346.9	271.1	271.1	326.5	425.7	402.3	312.0
75°	116.6	119.5	145.8	183.7	172.0	139.9	154.5	218.7	309.0	297.4	221.6
77.5°	78.7	81.6	99.1	119.5	96.2	78.7	84.5	110.8	151.6	151.6	116.6
80°	29.2	32.1	40.8	37.9	43.7	55.4	61.2	75.8	90.4	90.4	78.7
82.5°	0.0	2.9	8.7	20.4	32.1	43.7	49.6	58.3	67.1	75.8	72.9
85°	0.0	2.9	8.7	14.6	23.3	26.2	29.2	20.4	17.5	17.5	14.6
87.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.8	2.9	2.9
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: P531155

CATALOG NUMBER: GALN-SA6B-830-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3	3058.3
2.5°	3058.3	3055.4	3055.4	3046.6	3064.1	3055.4	3061.2	3058.3	3020.4	3049.6	3029.1
5°	3090.4	3110.8	3078.7	3072.9	3049.6	3058.3	3058.3	3029.1	3055.4	3052.5	3046.6
7.5°	3172.0	3137.0	3102.0	3067.0	3061.2	3052.5	3020.4	3008.7	3029.1	3005.8	3040.8
10°	3207.0	3212.8	3160.3	3113.7	3070.0	3008.7	2965.0	2938.8	2906.7	2941.7	2962.1
12.5°	3367.3	3309.0	3218.6	3145.8	2997.1	2935.9	2892.1	2880.5	2935.9	2947.5	2927.1
15°	3422.7	3414.0	3297.4	3134.1	2979.6	2906.7	2915.4	2892.1	2897.9	2868.8	2874.6
17.5°	3536.4	3437.3	3300.3	3096.2	2976.7	2959.2	2906.7	2813.4	2760.9	2737.6	2758.0
20°	3661.8	3565.6	3367.3	3110.8	3002.9	2956.3	2784.2	2670.5	2562.7	2504.4	2507.3
22.5°	3772.6	3653.0	3338.2	3116.6	3026.2	2833.8	2626.8	2402.3	2268.2	2177.8	2180.8
25°	3906.7	3737.6	3349.8	3128.3	2965.0	2638.5	2341.1	2122.4	1962.1	1900.9	1921.3
27.5°	3982.5	3790.1	3414.0	3154.5	2804.7	2361.5	2040.8	1836.7	1743.4	1714.3	1711.4
30°	4209.9	3906.7	3492.7	3102.0	2536.4	2064.1	1766.8	1641.4	1551.0	1524.8	1530.6
32.5°	4548.1	4119.5	3594.7	2965.0	2262.4	1798.8	1588.9	1495.6	1411.1	1361.5	1355.7
35°	4830.9	4484.0	3702.6	2752.2	1944.6	1594.7	1463.6	1346.9	1218.7	1163.3	1148.7
37.5°	5370.2	4895.0	3679.3	2431.5	1641.4	1443.1	1329.4	1186.6	1075.8	1000.0	991.3
40°	6087.4	5376.1	3565.6	2040.8	1416.9	1309.0	1186.6	1049.6	912.5	848.4	842.6
42.5°	6959.2	5965.0	3358.6	1644.3	1192.4	1174.9	1064.1	906.7	784.3	737.6	740.5
45°	7667.6	6469.4	3148.7	1320.7	1026.2	1043.7	947.5	798.8	714.3	676.4	676.4
47.5°	8297.3	6810.5	2921.3	1090.4	871.7	912.5	828.0	740.5	667.6	638.5	632.7
50°	8903.8	7157.4	2693.9	883.4	743.4	784.3	775.5	705.5	647.2	612.2	615.2
52.5°	9282.8	7212.8	2405.2	723.0	650.1	696.8	725.9	661.8	597.7	577.3	571.4
55°	8819.2	6498.5	1865.9	594.8	551.0	612.2	667.6	594.8	545.2	510.2	507.3
56°	8195.3	5810.5	1559.8	548.1	521.9	588.9	647.2	568.5	513.1	492.7	478.1
57.5°	6938.8	4755.1	1151.6	486.9	484.0	548.1	615.2	542.3	478.1	460.6	460.6
60°	4326.5	2676.4	696.8	408.2	419.8	486.9	553.9	484.0	425.7	425.7	434.4
62.5°	1970.8	1113.7	422.7	346.9	361.5	419.8	492.7	437.3	405.2	437.3	443.1
65°	670.6	481.0	306.1	277.0	285.7	346.9	422.7	443.1	440.2	460.6	472.3
67.5°	376.1	309.0	256.6	230.3	224.5	256.6	346.9	443.1	425.7	416.9	422.7
70°	317.8	262.4	227.4	204.1	195.3	207.0	268.2	335.3	300.3	291.5	285.7
72.5°	256.6	218.7	198.3	183.7	157.4	134.1	122.4	128.3	142.9	151.6	166.2
75°	180.8	166.2	166.2	148.7	113.7	84.5	67.1	55.4	37.9	26.2	29.2
77.5°	102.0	102.0	105.0	90.4	72.9	55.4	40.8	29.2	14.6	5.8	2.9
80°	70.0	75.8	81.6	72.9	61.2	49.6	35.0	20.4	8.7	0.0	0.0
82.5°	70.0	78.7	84.5	72.9	61.2	46.6	35.0	20.4	8.7	2.9	0.0
85°	14.6	17.5	20.4	23.3	35.0	35.0	26.2	17.5	8.7	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	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)