

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: P533259

Luminaire Tested: **GALN-SA8C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29836 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 429
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

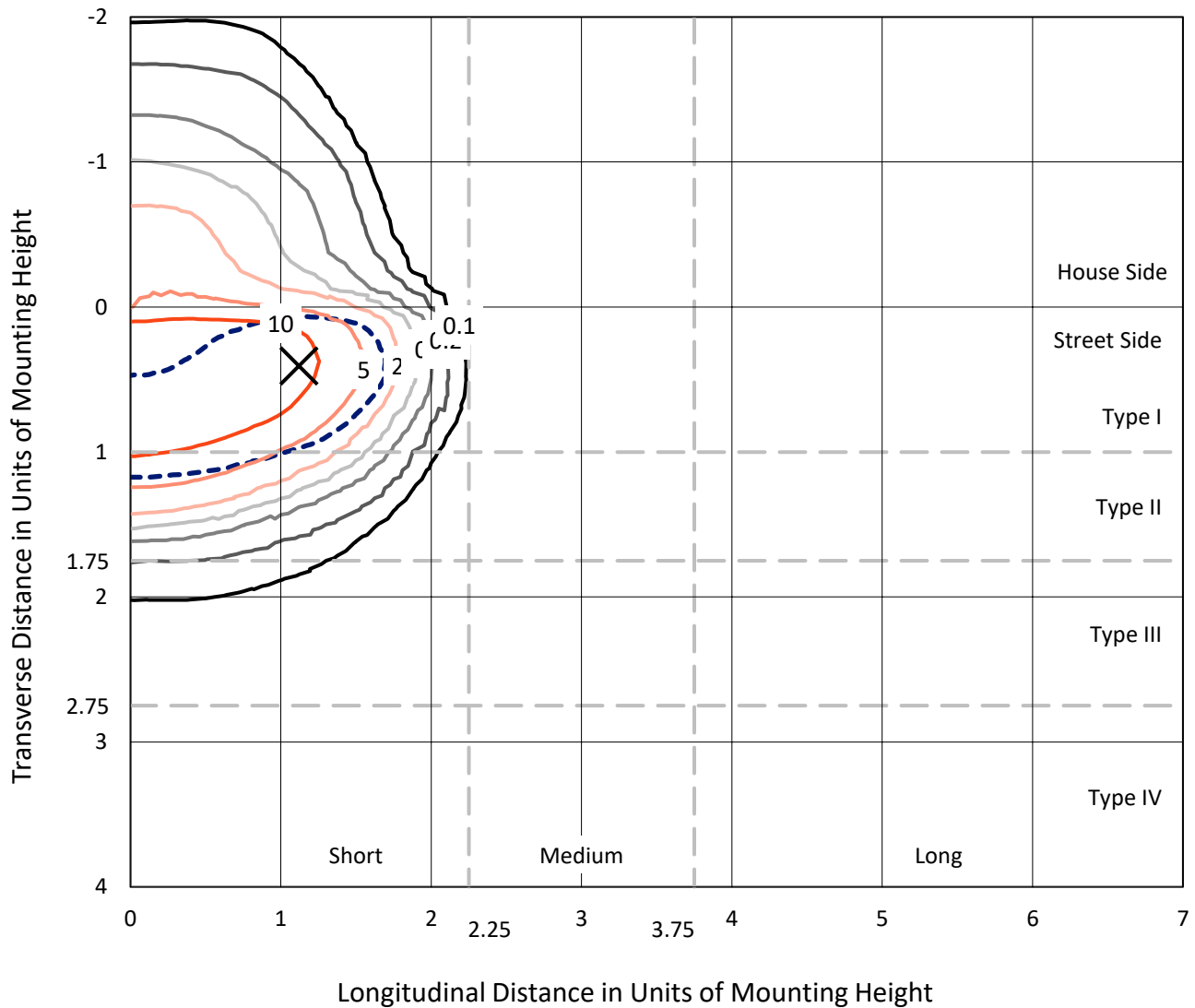


REPORT NUMBER: P533259

CATALOG NUMBER: GALN-SA8C-830-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

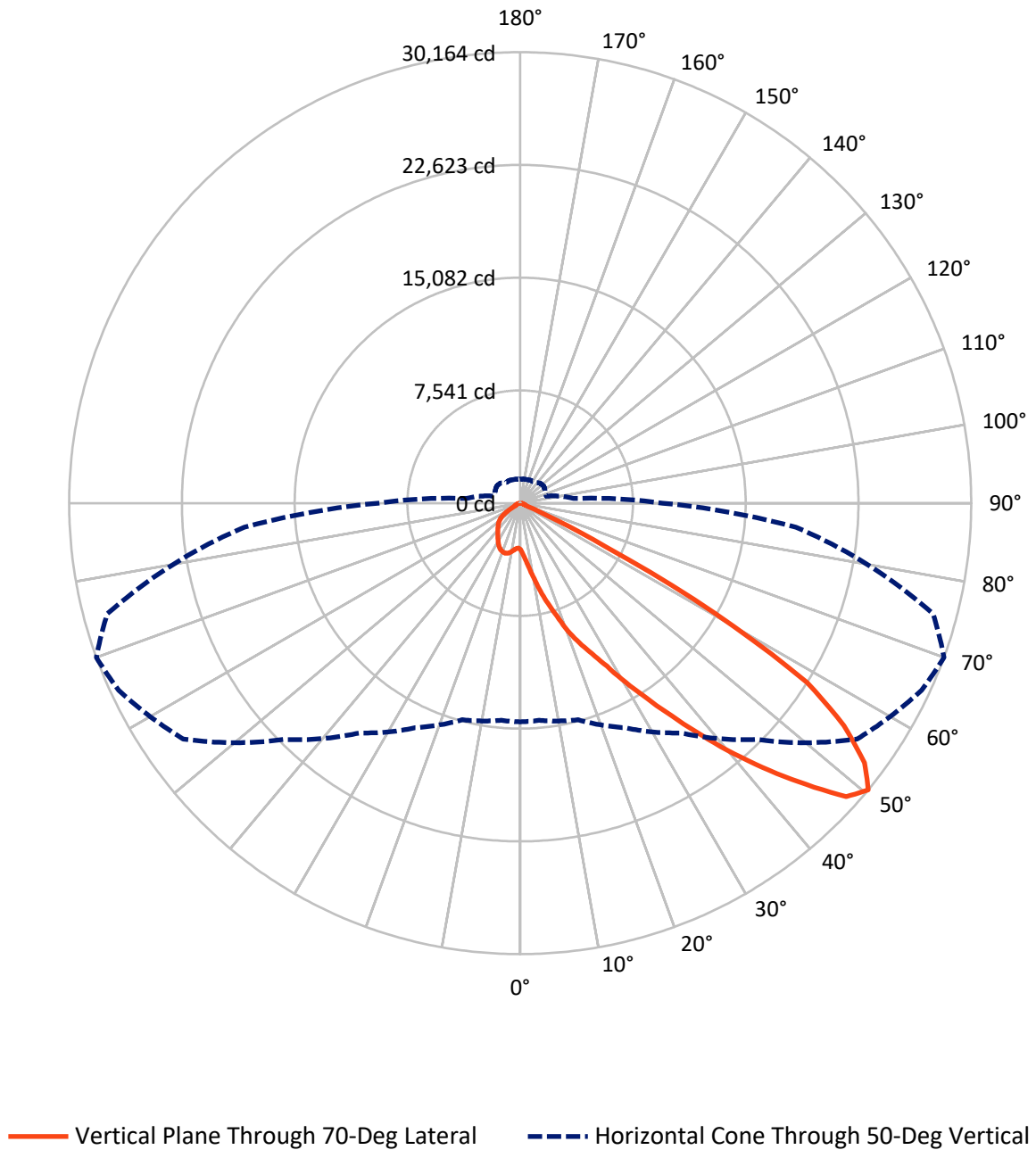


Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type I - Short - N/A

REPORT NUMBER: P533259

CATALOG NUMBER: GALN-SA8C-830-U-T2R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P533259

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4166.8	0.0	4166.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25669.2	0.0	25669.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	29836.0	0.0	29836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	1.3
10°-20°	1738.3	5.8
20°-30°	3646.7	12.2
30°-40°	6285.8	21.1
40°-50°	9186.6	30.8
50°-60°	7154.8	24.0
60°-70°	1212.2	4.1
70°-80°	166.5	0.6
80°-90°	43.1	0.1
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°	29836.0	100.0
0°-180°	29836.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533259

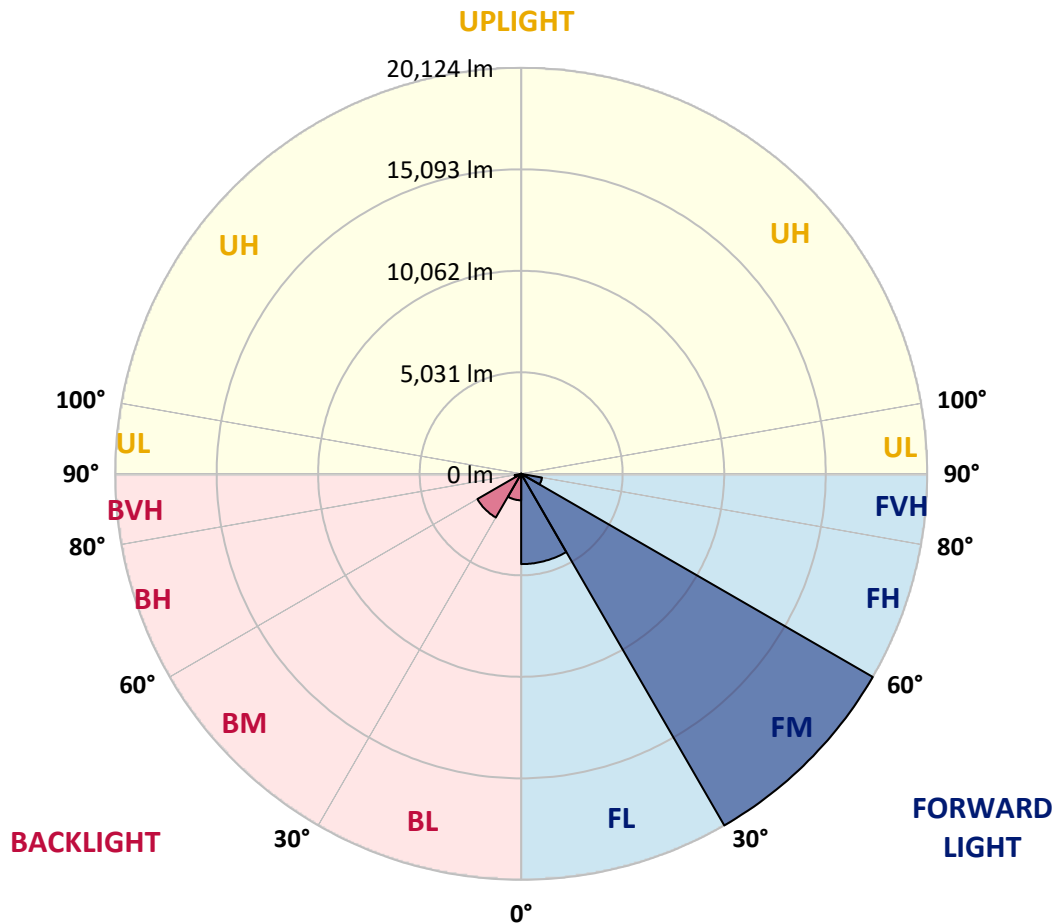
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4475.8	15.0			
FM	(30°-60°)	20123.9	67.4			
FH	(60°-80°)	1049.6	3.5			G1/1800
FVH	(80°-90°)	19.9	0.1			G1/100
BL	(0°-30°)	1311.2	4.4	B3/2500		
BM	(30°-60°)	2503.3	8.4	B3/5000		
BH	(60°-80°)	329.1	1.1	B1/500		G1/500
BVH	(80°-90°)	23.2	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 I Short



REPORT NUMBER: P533259

CATALOG NUMBER: GALN-SA8C-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4
2.5°	4047.0	4017.5	3953.8	3836.0	3787.0	3669.3	3600.6	3468.1	3384.7	3291.5	3188.5
5°	5700.1	5548.0	5454.8	5322.4	4934.9	4694.5	4297.2	3958.7	3801.7	3630.0	3394.6
7.5°	7407.2	7309.1	7181.6	6897.0	6632.1	6131.8	5449.9	4704.3	4385.5	4091.1	3625.1
10°	8820.0	8545.3	8530.5	8319.6	8030.2	7431.7	6612.5	5685.4	5116.4	4684.7	3953.8
12.5°	9806.0	9555.8	9668.6	9644.1	9374.3	8824.9	7878.1	6651.8	6058.2	5386.2	4292.3
15°	10703.7	10600.6	10566.3	10536.9	10428.9	10021.8	9173.2	7829.1	6970.6	6161.2	4674.9
17.5°	11581.7	11316.8	11444.4	11468.9	11459.1	11091.2	10296.5	8947.5	7937.0	6980.4	5077.1
20°	12361.7	12386.2	12214.5	12180.2	12150.8	12136.0	11361.0	10056.1	9124.1	7838.9	5602.0
22.5°	13362.4	13190.7	13342.8	13244.7	13053.4	12935.6	12342.1	11037.2	10154.2	8873.9	6136.7
25°	14544.6	14682.0	14323.9	14284.6	14073.7	13666.5	13131.8	12136.0	11145.1	9835.4	6715.5
27.5°	16001.5	15761.2	15667.9	15452.1	15069.5	14897.8	14269.9	13269.2	12342.1	10845.9	7274.8
30°	17252.4	17188.6	16722.6	16467.5	16134.0	16129.1	15251.0	14804.6	13902.0	12430.4	8044.9
32.5°	18272.7	17993.1	17821.4	17644.8	17375.0	17448.6	16707.9	16472.4	15564.9	13902.0	8952.4
35°	18954.6	18753.5	18650.5	18380.7	18302.2	18630.8	18321.8	18223.7	17478.1	15972.1	10016.9
37.5°	19170.4	19234.2	19214.6	18876.1	19042.9	19930.8	20328.1	20073.0	19680.6	18155.0	11169.7
40°	19361.7	19405.9	19307.8	19705.1	20180.9	21191.5	22628.8	22206.9	22059.7	20367.4	12773.7
42.5°	19469.7	19435.3	19435.3	20122.1	20843.2	22874.0	24850.9	24571.3	24458.5	22722.0	14628.0
45°	19003.6	18670.1	19028.2	19960.2	21412.2	23703.0	26626.7	27014.2	26852.3	25523.0	16796.2
47.5°	17262.2	17468.2	17669.4	18915.3	20720.5	23448.0	27715.7	29035.3	29334.5	27877.6	18218.8
50°	14628.0	14583.8	15000.8	16570.5	18763.3	22349.1	27504.8	29619.0	30163.5	28584.0	18518.0
52.5°	10639.9	10963.6	11414.9	12974.9	15574.7	19504.0	24782.2	28113.0	28839.0	27715.7	18321.8
55°	6195.6	5837.5	6852.9	8172.4	10625.2	14711.4	20951.1	24919.6	26263.7	26136.1	17330.9
57.5°	2482.1	2403.7	2751.9	3708.5	5543.1	9119.2	15236.3	20475.3	22628.8	23938.5	15231.4
60°	1089.0	1064.5	1250.9	1510.9	2266.3	4204.0	8334.3	12734.5	14981.2	16727.5	10482.9
62.5°	784.9	775.1	868.3	961.5	1196.9	1829.7	3502.5	5131.1	6396.7	7726.1	4694.5
65°	632.8	657.3	721.1	770.2	883.0	1015.4	1236.2	1427.5	1751.2	1815.0	1035.0
67.5°	515.1	534.7	593.6	647.5	667.1	549.4	569.0	500.4	500.4	446.4	358.1
70°	377.7	382.6	451.3	515.1	412.1	220.7	387.5	387.5	348.3	333.6	304.1
72.5°	279.6	284.5	338.5	318.9	161.9	137.4	284.5	313.9	284.5	269.8	245.3
75°	206.0	210.9	176.6	73.6	68.7	88.3	166.8	215.8	206.0	201.1	186.4
77.5°	39.2	29.4	24.5	34.3	49.1	73.6	107.9	132.4	137.4	147.2	137.4
80°	4.9	4.9	14.7	29.4	54.0	78.5	112.8	127.5	132.4	137.4	127.5
82.5°	0.0	4.9	14.7	29.4	54.0	73.6	98.1	112.8	122.6	127.5	122.6
85°	0.0	4.9	9.8	24.5	44.1	54.0	49.1	34.3	29.4	34.3	24.5
87.5°	0.0	0.0	4.9	4.9	9.8	9.8	9.8	9.8	9.8	9.8	9.8
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: P533259

CATALOG NUMBER: GALN-SA8C-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4	3090.4
2.5°	3129.7	3110.0	3041.4	2967.8	2904.0	2933.4	2904.0	2879.5	2889.3	2879.5	2869.7
5°	3301.4	3213.1	3065.9	3002.1	2948.2	2943.3	2928.5	2923.6	2928.5	2928.5	2884.4
7.5°	3463.2	3321.0	3164.0	3095.3	3031.6	3036.5	3002.1	3002.1	2997.2	2972.7	2962.9
10°	3708.5	3517.2	3316.1	3193.4	3114.9	3100.2	3065.9	3031.6	3031.6	3031.6	2982.5
12.5°	3978.3	3737.9	3463.2	3321.0	3227.8	3154.2	3100.2	3090.4	3036.5	3026.7	3002.1
15°	4213.8	3909.6	3561.3	3365.1	3247.4	3149.3	3065.9	3011.9	2987.4	2972.7	2953.1
17.5°	4444.3	4056.8	3615.3	3365.1	3237.6	3124.8	3036.5	2987.4	2928.5	2938.4	2899.1
20°	4753.4	4213.8	3630.0	3301.4	3144.4	3036.5	2918.7	2894.2	2859.9	2830.4	2840.2
22.5°	5052.6	4326.6	3585.9	3222.9	2997.2	2869.7	2810.8	2781.4	2766.7	2742.1	2707.8
25°	5322.4	4449.2	3517.2	3080.6	2840.2	2747.0	2693.1	2688.2	2653.8	2653.8	2590.1
27.5°	5597.1	4493.4	3399.5	2913.8	2702.9	2648.9	2624.4	2614.6	2599.9	2565.5	2521.4
30°	5911.0	4508.1	3227.8	2742.1	2580.3	2521.4	2555.7	2580.3	2516.5	2452.7	2472.3
32.5°	6171.0	4473.8	3021.7	2580.3	2492.0	2462.5	2531.2	2555.7	2482.1	2413.5	2379.1
35°	6485.0	4390.4	2820.6	2452.7	2403.7	2462.5	2521.4	2521.4	2374.2	2290.8	2271.2
37.5°	6960.8	4297.2	2634.2	2344.8	2310.5	2433.1	2511.6	2457.6	2227.1	2124.1	2099.5
40°	7471.0	4238.3	2452.7	2236.9	2261.4	2384.0	2428.2	2261.4	2025.9	1962.2	1942.6
42.5°	8211.7	4120.6	2290.8	2143.7	2217.3	2315.4	2315.4	2016.1	1927.8	1893.5	1888.6
45°	9133.9	4037.2	2148.6	2065.2	2153.5	2178.0	2099.5	1888.6	1824.8	1815.0	1819.9
47.5°	9585.2	3875.3	2001.4	1972.0	2035.8	2040.7	1834.6	1785.6	1731.6	1716.9	1707.1
50°	9516.5	3585.9	1810.1	1849.3	1937.6	1888.6	1672.8	1682.6	1633.5	1628.6	1604.1
52.5°	9035.8	3129.7	1618.8	1712.0	1810.1	1667.8	1540.3	1530.5	1530.5	1466.7	1442.2
55°	8010.6	2521.4	1388.2	1506.0	1623.7	1403.0	1368.6	1358.8	1334.3	1275.4	1260.7
57.5°	6342.7	1849.3	1044.9	1172.4	1378.4	1192.0	1187.1	1143.0	1079.2	1035.0	1035.0
60°	3772.3	1064.5	657.3	716.2	912.4	966.4	1074.3	1054.7	946.7	878.1	858.5
62.5°	1721.8	549.4	417.0	426.8	490.5	627.9	843.7	976.2	824.1	706.4	696.6
65°	578.8	407.2	343.4	328.7	338.5	377.7	505.3	691.7	657.3	544.5	524.9
67.5°	353.2	363.0	323.8	299.2	299.2	294.3	289.4	313.9	387.5	377.7	382.6
70°	304.1	333.6	299.2	269.8	260.0	245.3	206.0	171.7	147.2	171.7	181.5
72.5°	245.3	264.9	255.1	230.6	206.0	186.4	147.2	112.8	83.4	73.6	73.6
75°	181.5	196.2	206.0	176.6	157.0	132.4	107.9	73.6	44.1	29.4	29.4
77.5°	132.4	147.2	152.1	137.4	117.7	93.2	68.7	49.1	24.5	9.8	9.8
80°	112.8	132.4	147.2	137.4	122.6	88.3	63.8	34.3	19.6	4.9	4.9
82.5°	107.9	132.4	147.2	132.4	117.7	83.4	63.8	39.2	14.7	4.9	4.9
85°	24.5	34.3	44.1	54.0	63.8	63.8	49.1	29.4	14.7	4.9	4.9
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	4.9	4.9	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)