

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: P531152

Luminaire Tested: **GALN-SA6B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22491 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

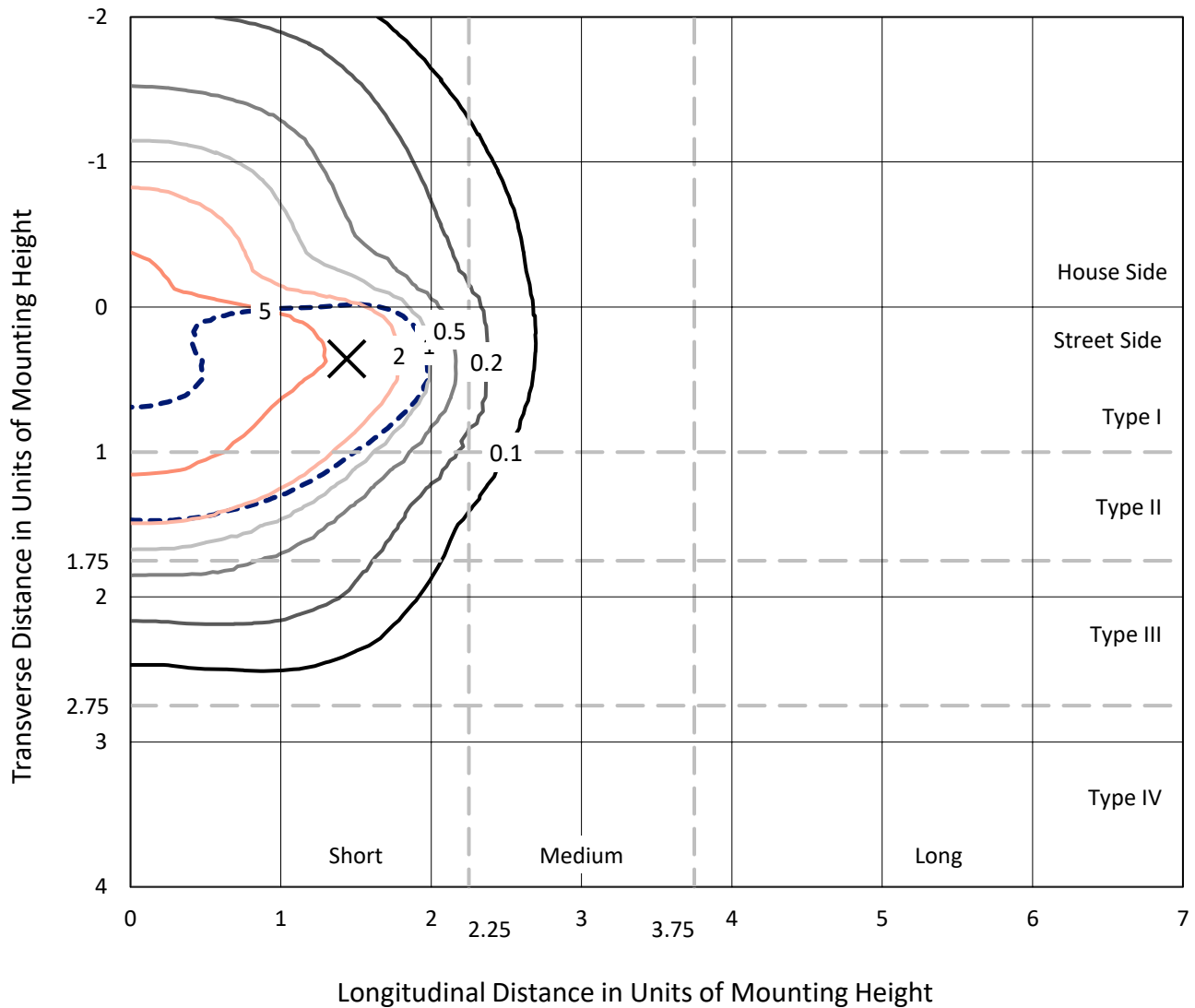
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

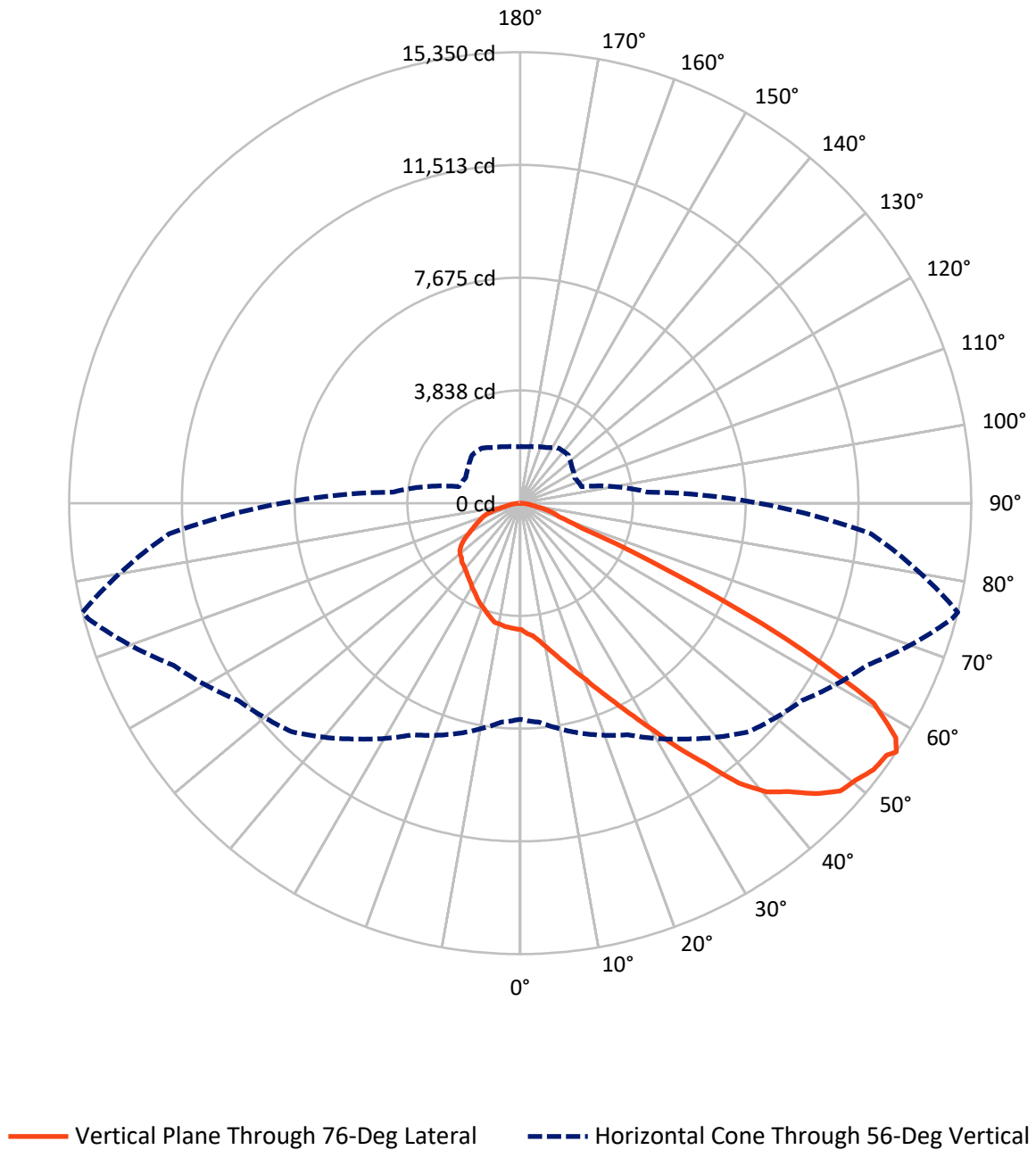
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6047.2	0.0	6047.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	16443.8	0.0	16443.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	22491.0	0.0	22491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.8	1.9
10°-20°	1340.6	6.0
20°-30°	2344.5	10.4
30°-40°	3670.9	16.3
40°-50°	5340.1	23.7
50°-60°	5869.1	26.1
60°-70°	2619.7	11.6
70°-80°	756.7	3.4
80°-90°	122.7	0.5
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°	22491.0	100.0
0°-180°	22491.0	100.0

Coefficient of Utilization



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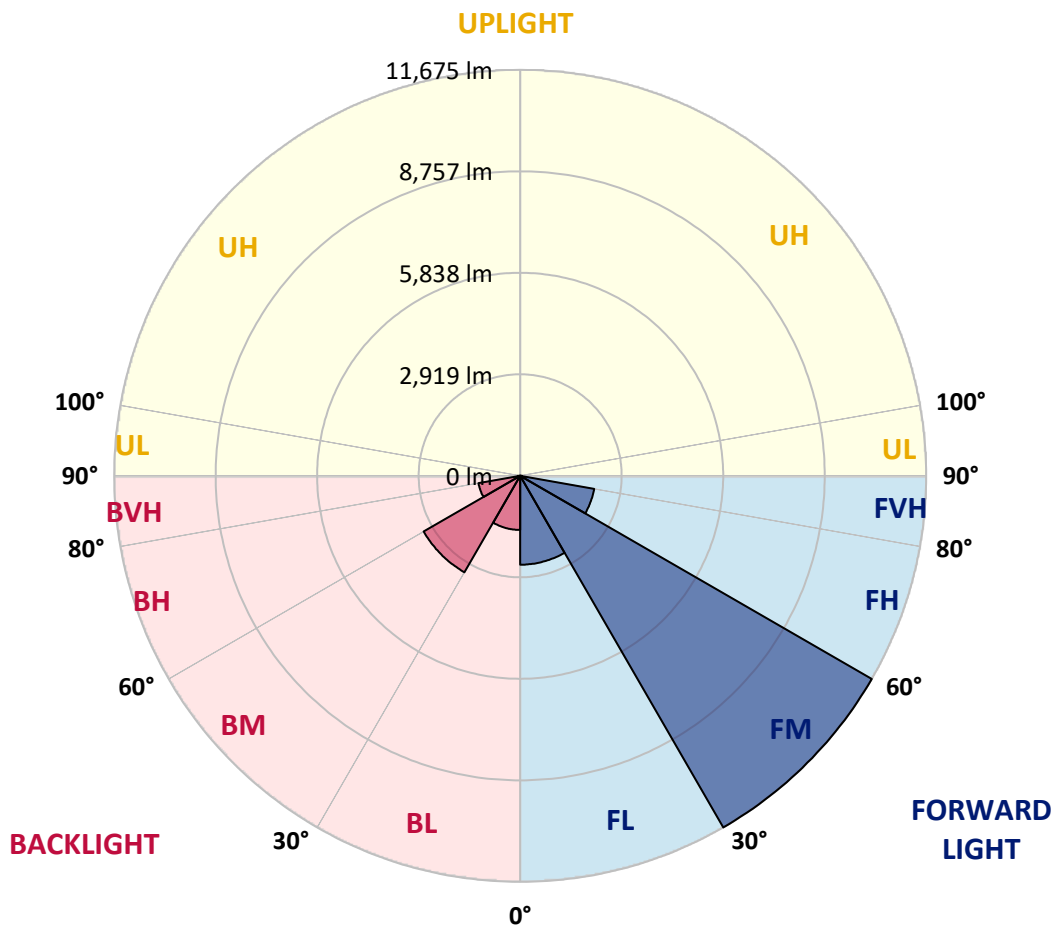
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2555.9	11.4			
FM	(30°-60°)	11675.5	51.9			
FH	(60°-80°)	2159.7	9.6			G2/5000
FVH	(80°-90°)	52.8	0.2			G1/100
BL	(0°-30°)	1556.0	6.9	B3/2500		
BM	(30°-60°)	3204.5	14.2	B3/5000		
BH	(60°-80°)	1216.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	69.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4
2.5°	4740.7	4664.9	4659.1	4638.7	4650.3	4597.8	4542.4	4469.6	4393.7	4440.4	4329.6
5°	5073.1	4971.0	5011.8	4941.9	4950.6	4880.6	4766.9	4682.4	4589.1	4533.7	4455.0
7.5°	5189.7	5198.4	5227.6	5215.9	5157.6	5157.6	5081.8	4933.1	4769.9	4737.8	4606.6
10°	5347.1	5350.0	5318.0	5326.7	5408.4	5370.5	5303.4	5239.3	5029.3	4991.4	4758.2
12.5°	5402.5	5350.0	5402.5	5449.2	5545.4	5597.9	5583.3	5536.6	5312.1	5285.9	4944.8
15°	5411.3	5379.2	5422.9	5527.9	5612.4	5834.0	5944.8	5912.8	5615.4	5618.3	5154.7
17.5°	5370.5	5414.2	5431.7	5522.1	5717.4	5924.4	6245.1	6288.9	6044.0	6006.1	5420.0
20°	5425.9	5393.8	5417.1	5498.7	5758.2	6081.9	6501.7	6790.3	6446.3	6420.1	5694.1
22.5°	5638.7	5595.0	5589.1	5641.6	5828.2	6163.5	6772.8	7291.8	6936.1	6950.7	6035.2
25°	5804.9	5828.2	5807.8	5804.9	5921.5	6285.9	7131.5	7889.5	7600.9	7516.3	6437.6
27.5°	6090.6	6146.0	6105.2	6160.6	6134.3	6469.6	7388.0	8551.3	8318.1	8204.4	6802.0
30°	6487.1	6516.3	6478.4	6478.4	6399.7	6726.2	7621.3	9242.3	9146.1	8991.6	7230.6
32.5°	7009.0	7052.7	6976.9	6933.2	6921.5	7108.1	8041.1	9924.6	10087.8	9956.6	7799.1
35°	7700.0	7673.7	7583.4	7542.5	7385.1	7694.2	8665.0	10708.8	11137.4	10904.2	8487.2
37.5°	8309.3	8268.5	8262.7	8035.3	8073.2	8326.8	9195.7	11303.6	12155.0	12087.9	9213.2
40°	8877.9	8915.8	8977.0	8848.7	8790.4	9070.3	9813.8	11758.4	12945.1	12918.8	9773.0
42.5°	9487.2	9452.2	9560.1	9452.2	9364.8	9761.3	10484.3	12073.3	13639.0	13423.2	10359.0
45°	10370.6	10259.8	10297.8	10306.5	10242.4	10388.1	10761.3	12300.7	14125.9	14102.6	10787.6
47.5°	11108.3	11111.2	11047.1	10997.5	10802.1	10947.9	11070.4	12443.6	14685.7	14647.8	10953.8
50°	11382.3	11344.4	11531.0	11638.9	11650.6	11353.2	11312.4	12522.3	14980.1	14814.0	11119.9
52.5°	10396.9	10431.9	10726.3	11367.8	11738.0	11770.1	11595.2	12685.6	15099.7	15064.7	11254.1
55°	8367.7	8536.8	9020.7	9761.3	10638.9	11603.9	11901.3	12854.7	15163.8	15134.7	11848.8
56°	7356.0	7487.2	8116.9	8697.1	9799.2	11000.4	11708.9	13035.5	15213.4	15350.4	11988.8
57.5°	5921.5	6073.1	6525.0	7183.9	8484.3	9851.7	11178.3	12813.9	15021.0	15073.4	12090.8
60°	3702.8	3717.3	4259.6	4694.0	5609.5	6944.9	8530.9	11149.1	13901.4	13825.6	10860.5
62.5°	2428.7	2431.6	2924.3	3280.0	3696.9	4003.1	5020.6	7393.9	10256.9	10122.8	7732.1
65°	1705.6	1743.5	2125.4	2600.7	2769.8	2609.4	2577.4	3898.1	5729.1	5536.6	4154.7
67.5°	1247.9	1250.8	1589.0	2099.2	2344.1	1985.5	1612.3	1903.9	2268.3	2262.5	1924.3
70°	825.1	860.1	1119.6	1568.6	1848.5	1594.8	1317.8	1361.6	1443.2	1443.2	1431.5
72.5°	481.1	513.1	685.2	994.2	1037.9	997.1	1043.8	1166.2	1218.7	1215.8	1201.2
75°	274.1	288.6	326.5	414.0	516.1	609.4	766.8	883.4	935.9	968.0	930.1
77.5°	160.4	169.1	192.4	236.2	268.2	329.5	416.9	498.6	568.5	559.8	565.6
80°	84.6	84.6	107.9	139.9	186.6	233.2	277.0	323.6	361.5	370.3	379.0
82.5°	49.6	52.5	70.0	102.0	134.1	166.2	212.8	244.9	279.9	282.8	288.6
85°	26.2	29.2	43.7	67.1	90.4	102.0	105.0	99.1	107.9	102.0	116.6
87.5°	8.7	8.7	14.6	11.7	11.7	14.6	17.5	17.5	23.3	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4	4303.4
2.5°	4326.7	4326.7	4277.1	4183.8	4169.2	4131.3	4096.4	4093.4	4067.2	4043.9	4032.2
5°	4408.3	4317.9	4245.1	4160.5	4061.4	4014.7	3962.2	3903.9	3880.6	3903.9	3901.0
7.5°	4501.6	4425.8	4207.2	4049.7	3936.0	3889.4	3831.0	3769.8	3775.6	3775.6	3734.8
10°	4592.0	4490.0	4140.1	3938.9	3772.7	3737.7	3705.7	3729.0	3758.2	3764.0	3737.7
12.5°	4743.6	4513.3	4108.0	3828.1	3723.2	3647.4	3667.8	3731.9	3793.1	3775.6	3796.1
15°	4857.3	4533.7	3962.2	3714.4	3583.2	3618.2	3691.1	3734.8	3836.9	3825.2	3845.6
17.5°	4968.1	4545.4	3819.4	3562.8	3507.4	3603.6	3659.0	3784.4	3816.5	3886.4	3912.7
20°	5195.5	4568.7	3673.6	3469.5	3452.0	3562.8	3659.0	3717.3	3787.3	3848.5	3848.5
22.5°	5312.1	4557.0	3577.4	3347.1	3402.5	3472.4	3559.9	3659.0	3659.0	3717.3	3720.3
25°	5457.9	4510.4	3425.8	3288.7	3329.6	3396.6	3495.8	3460.8	3498.7	3498.7	3545.3
27.5°	5624.1	4411.2	3294.6	3183.8	3265.4	3338.3	3352.9	3329.6	3285.8	3280.0	3262.5
30°	5758.2	4288.8	3198.4	3148.8	3215.9	3256.7	3210.0	3160.5	3084.7	3078.8	3038.0
32.5°	5941.9	4137.2	3078.8	3061.3	3137.1	3140.1	3125.5	3049.7	2938.9	2892.2	2845.6
35°	6251.0	4049.7	2988.4	3014.7	3038.0	3029.3	3003.0	2921.4	2810.6	2790.2	2772.7
37.5°	6478.4	3985.6	2895.1	2927.2	2947.6	2959.3	2880.6	2790.2	2793.1	2752.3	2740.6
40°	6734.9	3944.8	2819.3	2833.9	2836.8	2874.7	2778.5	2734.8	2755.2	2729.0	2746.5
42.5°	7064.4	3956.4	2740.6	2729.0	2784.4	2769.8	2723.1	2664.8	2676.5	2597.8	2609.4
45°	7239.3	4035.1	2694.0	2641.5	2702.7	2699.8	2638.6	2583.2	2513.2	2361.6	2367.4
47.5°	7356.0	4055.5	2583.2	2548.2	2612.3	2650.2	2580.3	2452.0	2352.9	2245.0	2218.7
50°	7475.5	4093.4	2530.7	2457.8	2484.1	2574.4	2487.0	2364.5	2268.3	2172.1	2186.7
52.5°	7580.5	4166.3	2428.7	2320.8	2367.4	2466.6	2419.9	2271.2	2166.3	2087.5	2064.2
55°	8046.9	4329.6	2256.6	2116.7	2227.5	2352.9	2326.6	2145.9	2032.1	1991.3	1985.5
56°	8119.8	4335.4	2166.3	2046.7	2148.8	2315.0	2282.9	2090.5	1988.4	1924.3	1927.2
57.5°	8131.5	4265.5	2038.0	1982.6	2070.0	2259.6	2218.7	2046.7	1906.8	1848.5	1831.0
60°	7154.8	3329.6	1877.6	1842.6	1944.7	2090.5	2075.9	1927.2	1769.7	1702.7	1734.8
62.5°	4877.7	2440.3	1752.3	1746.4	1798.9	1941.8	1903.9	1769.7	1638.5	1594.8	1574.4
65°	2839.8	1851.4	1629.8	1606.5	1650.2	1726.0	1752.3	1612.3	1475.3	1446.1	1437.4
67.5°	1676.4	1530.7	1472.4	1434.5	1419.9	1466.5	1486.9	1405.3	1268.3	1227.5	1262.4
70°	1402.4	1361.6	1364.5	1300.3	1265.4	1233.3	1215.8	1142.9	1029.2	976.7	962.1
72.5°	1210.0	1192.5	1180.8	1122.5	1090.4	1017.5	941.7	868.8	784.3	740.6	743.5
75°	924.2	918.4	924.2	895.1	839.7	781.4	711.4	618.1	554.0	498.6	510.2
77.5°	551.0	568.5	577.3	565.6	542.3	489.8	446.1	384.9	323.6	279.9	274.1
80°	379.0	393.6	408.2	393.6	370.3	332.4	285.7	239.1	195.3	172.0	166.2
82.5°	288.6	303.2	312.0	297.4	268.2	227.4	195.3	163.3	128.3	105.0	99.1
85°	105.0	119.5	116.6	139.9	151.6	145.8	125.4	96.2	72.9	52.5	49.6
87.5°	29.2	26.2	29.2	29.2	29.2	26.2	23.3	23.3	23.3	14.6	11.7
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)