

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: P531154

Luminaire Tested: **GALN-SA6B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23562 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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



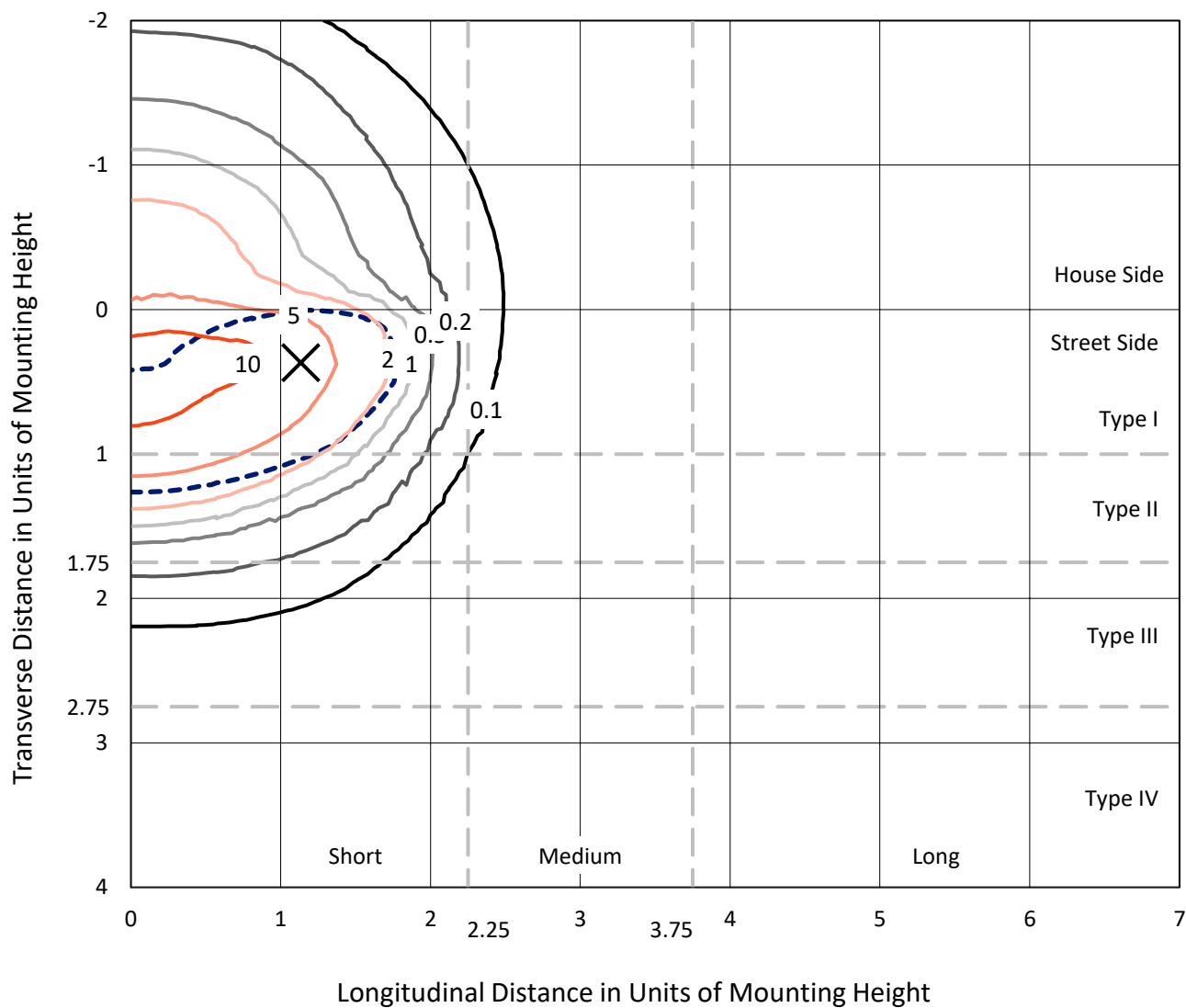
REPORT NUMBER: P531154

CATALOG NUMBER: GALN-SA6B-830-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

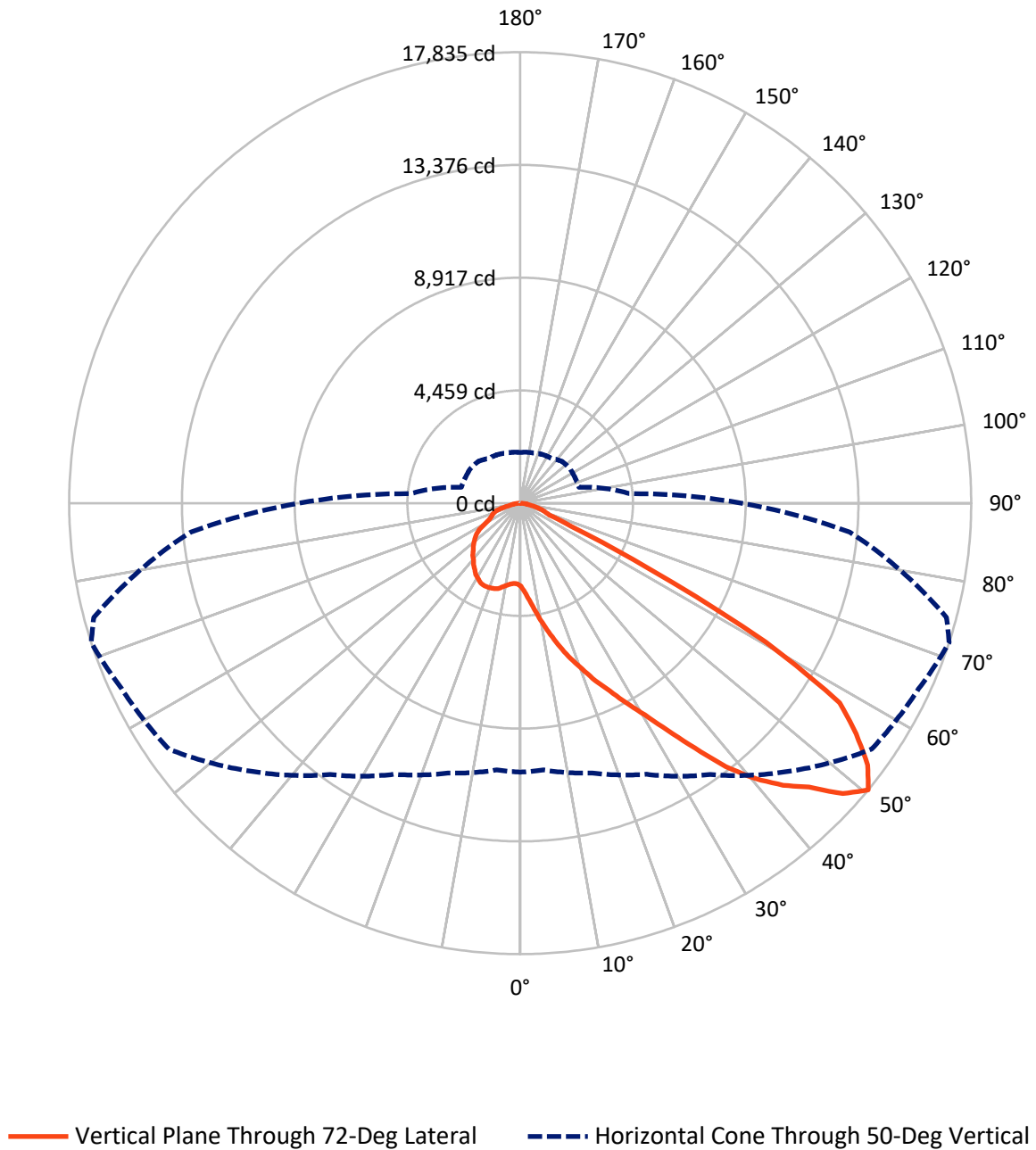
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

REPORT NUMBER: P531154
CATALOG NUMBER: GALN-SA6B-830-U-T2R-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P531154

CATALOG NUMBER: GALN-SA6B-830-U-T2R-GRSWH

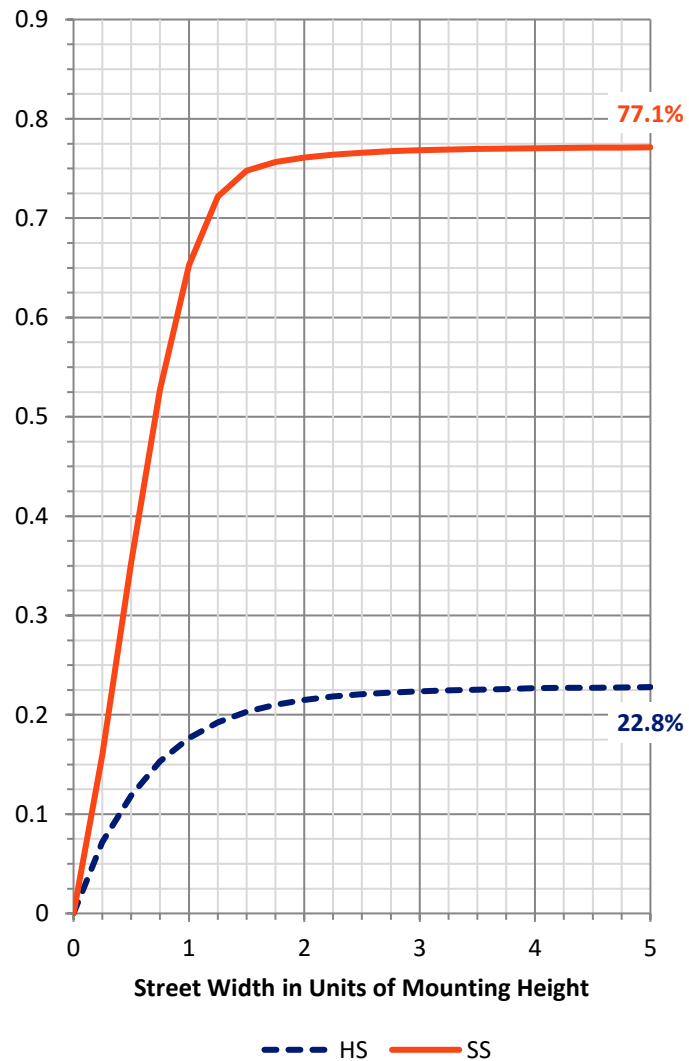
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5398.2	0.0	5398.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18163.8	0.0	18163.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	23562.0	0.0	23562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.8	1.6
10°-20°	1442.3	6.1
20°-30°	2796.5	11.9
30°-40°	4632.9	19.7
40°-50°	6482.4	27.5
50°-60°	5468.7	23.2
60°-70°	1666.9	7.1
70°-80°	584.8	2.5
80°-90°	101.7	0.4
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°	23562.0	100.0
0°-180°	23562.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531154

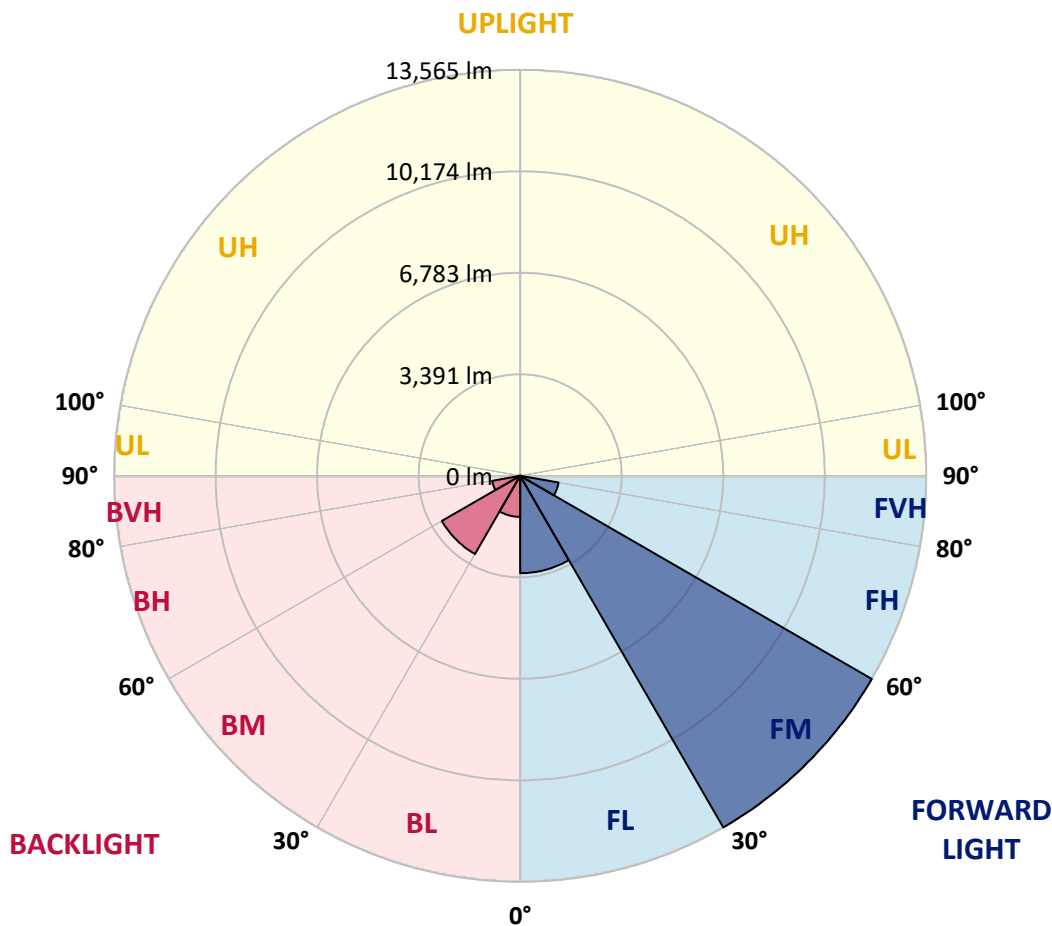
CATALOG NUMBER: GALN-SA6B-830-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3252.4	13.8			
FM	(30°-60°)	13565.3	57.6			
FH	(60°-80°)	1300.6	5.5			G1/1800
FVH	(80°-90°)	45.5	0.2			G1/100
BL	(0°-30°)	1372.2	5.8	B3/2500		
BM	(30°-60°)	3018.8	12.8	B3/5000		
BH	(60°-80°)	951.1	4.0	B2/1000		G2/1000
BVH	(80°-90°)	56.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P531154

CATALOG NUMBER: GALN-SA6B-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0
2.5°	4218.8	4192.6	4113.9	4087.6	3994.3	3825.2	3766.9	3594.9	3522.0	3455.0	3376.2
5°	5335.5	5213.1	5204.3	5055.6	4839.9	4714.5	4341.3	4090.6	3860.2	3743.6	3527.9
7.5°	6046.9	6049.8	6049.8	5927.4	5755.4	5437.6	5102.3	4650.4	4303.4	4131.4	3764.0
10°	6723.3	6665.0	6633.0	6621.3	6504.7	6195.6	5837.0	5277.2	4802.0	4600.8	3941.9
12.5°	7201.5	7151.9	7224.8	7186.9	7102.4	6901.2	6563.0	5924.5	5329.7	5058.5	4227.6
15°	7428.9	7463.9	7522.2	7627.2	7589.3	7513.5	7140.3	6589.2	5898.2	5592.1	4481.3
17.5°	7778.8	7682.6	7752.5	7883.7	7988.7	7953.7	7740.9	7070.3	6460.9	6084.8	4822.4
20°	8023.7	7968.3	8003.3	8154.9	8233.6	8431.9	8321.1	7700.1	7000.3	6603.8	5224.7
22.5°	8723.4	8641.8	8528.1	8551.4	8580.6	8720.5	8746.8	8391.0	7627.2	7207.3	5606.7
25°	9586.4	9510.6	9376.5	9239.5	9154.9	9128.7	9219.1	8933.3	8227.8	7793.4	6017.8
27.5°	10536.9	10408.6	10324.1	10041.3	9813.9	9778.9	9735.1	9580.6	8939.2	8469.8	6481.3
30°	11461.2	11359.1	11245.4	10793.5	10557.3	10519.4	10303.7	10347.4	9711.8	9189.9	7006.1
32.5°	12160.9	12169.6	11910.2	11569.0	11347.5	11146.3	11067.6	11192.9	10703.1	10283.3	7592.2
35°	12726.5	12752.8	12504.9	12195.9	11956.8	12096.8	12061.8	12120.1	11886.8	11373.7	8274.4
37.5°	13277.6	13146.4	12881.0	12732.4	12607.0	12837.3	13134.7	13184.3	13228.0	12624.5	9067.5
40°	13367.9	13379.6	13225.1	13330.0	13172.6	13519.6	14210.6	14146.4	14324.3	13796.5	9927.6
42.5°	13239.7	13265.9	13327.1	13475.8	13854.9	14271.8	15298.1	15035.7	15251.4	14782.0	10764.3
45°	13029.7	12921.9	12997.7	13563.3	14219.3	15146.5	16292.3	16088.2	16018.2	15624.6	11761.5
47.5°	12026.8	12137.6	12373.7	13070.6	14056.0	15298.1	16997.9	16951.2	17161.1	16884.1	12668.2
50°	10636.0	10592.3	11047.1	11831.4	13102.6	15000.7	16959.9	17382.7	17834.6	17449.8	13073.5
52.5°	7965.4	8198.6	8589.3	9563.1	11376.6	13379.6	16131.9	16837.5	17204.9	17123.2	12746.9
55°	5035.2	5105.2	5341.3	6498.8	8131.6	10738.1	13828.6	15464.3	16120.3	16426.4	12446.6
57.5°	2446.2	2315.0	2603.6	3533.7	4697.0	7221.9	10665.2	13470.0	14895.7	15449.7	11793.5
60°	1277.0	1326.6	1440.3	1772.7	2428.7	3749.4	6647.5	8977.1	11155.0	12006.4	8939.2
62.5°	1058.4	1075.9	1151.7	1317.8	1615.2	2157.5	3393.7	4376.3	5688.3	6455.1	5084.8
65°	898.0	906.7	988.4	1099.2	1288.7	1519.0	1746.4	1828.1	2212.9	2271.2	1807.7
67.5°	749.3	758.1	845.5	950.5	1072.9	1134.2	1192.5	1186.6	1230.4	1212.9	1210.0
70°	577.3	586.0	676.4	787.2	848.4	813.4	994.2	1035.0	1052.5	1067.1	1090.4
72.5°	416.9	434.4	504.4	583.1	551.0	632.7	819.3	880.5	903.8	912.6	941.7
75°	303.2	309.1	326.5	303.2	349.9	440.3	577.3	653.1	682.2	691.0	734.7
77.5°	134.1	137.0	139.9	174.9	224.5	274.1	344.0	405.3	446.1	457.7	469.4
80°	70.0	72.9	90.4	119.5	160.4	201.2	250.7	285.7	312.0	314.9	326.5
82.5°	43.7	46.6	64.1	84.6	113.7	148.7	183.7	212.8	233.2	236.2	239.1
85°	20.4	26.2	37.9	52.5	75.8	96.2	99.1	84.6	90.4	93.3	87.5
87.5°	5.8	8.7	11.7	8.7	11.7	11.7	14.6	17.5	17.5	17.5	20.4
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: P531154

CATALOG NUMBER: GALN-SA6B-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0	3280.0
2.5°	3332.5	3306.3	3204.2	3166.3	3067.2	3084.7	3032.2	3029.3	3017.6	3014.7	3011.8
5°	3414.1	3332.5	3210.1	3116.8	3061.4	3055.5	3017.6	3017.6	3029.3	3038.0	3017.6
7.5°	3548.3	3455.0	3248.0	3160.5	3110.9	3102.2	3075.9	3055.5	3081.8	3073.0	3049.7
10°	3702.8	3539.5	3320.8	3245.0	3163.4	3143.0	3143.0	3151.7	3108.0	3122.6	3099.3
12.5°	3874.8	3656.1	3414.1	3326.7	3230.5	3218.8	3213.0	3148.8	3172.2	3160.5	3102.2
15°	4093.5	3790.3	3533.7	3385.0	3303.4	3250.9	3175.1	3163.4	3148.8	3119.7	3093.4
17.5°	4329.6	3936.0	3589.1	3402.5	3280.0	3242.1	3183.8	3122.6	3078.9	3084.7	3064.3
20°	4530.8	4070.2	3609.5	3420.0	3262.5	3189.6	3099.3	3061.4	3014.7	3011.8	3008.9
22.5°	4769.9	4250.9	3638.6	3373.3	3210.1	3134.3	3073.0	3006.0	2973.9	2933.1	2953.5
25°	5055.6	4320.9	3644.5	3347.1	3172.2	3038.0	3006.0	2933.1	2921.4	2863.1	2874.8
27.5°	5262.6	4358.8	3597.8	3265.5	3084.7	2982.6	2924.3	2871.8	2851.4	2807.7	2796.0
30°	5539.6	4417.1	3498.7	3163.4	2997.2	2883.5	2848.5	2836.9	2778.6	2731.9	2726.1
32.5°	5854.5	4455.0	3434.6	3058.4	2906.8	2819.4	2836.9	2781.5	2708.6	2667.8	2656.1
35°	6105.2	4469.6	3274.2	2938.9	2845.6	2790.2	2769.8	2758.1	2653.2	2615.3	2586.1
37.5°	6487.2	4437.5	3140.1	2854.4	2778.6	2758.1	2740.6	2661.9	2542.4	2487.0	2446.2
40°	6933.3	4428.8	2968.1	2734.8	2714.4	2737.7	2685.3	2562.8	2396.6	2335.4	2306.2
42.5°	7361.8	4490.0	2860.2	2670.7	2644.4	2653.2	2580.3	2396.6	2315.0	2280.0	2233.3
45°	8079.1	4618.3	2682.3	2571.5	2559.9	2554.1	2466.6	2274.2	2227.5	2183.8	2175.0
47.5°	8726.3	4533.7	2568.6	2469.5	2481.2	2449.1	2262.5	2201.3	2148.8	2105.1	2090.5
50°	8764.2	4332.6	2408.3	2390.8	2393.7	2338.3	2160.4	2119.6	2052.6	2023.4	2003.0
52.5°	8566.0	4003.1	2259.6	2265.4	2274.2	2183.8	2035.1	2005.9	1950.5	1909.7	1898.0
55°	8009.1	3490.0	2113.8	2137.1	2160.4	1988.4	1941.8	1868.9	1825.2	1766.8	1769.8
57.5°	7055.7	2810.6	1909.7	1947.6	1997.2	1807.7	1772.7	1682.3	1618.1	1571.5	1565.7
60°	4729.1	2000.1	1603.6	1618.1	1728.9	1653.1	1650.2	1559.8	1472.4	1431.6	1408.2
62.5°	2790.2	1527.8	1384.9	1370.3	1367.4	1411.1	1484.0	1452.0	1338.3	1259.5	1282.9
65°	1460.7	1320.8	1288.7	1239.1	1210.0	1198.3	1253.7	1268.3	1192.5	1107.9	1102.1
67.5°	1227.5	1227.5	1201.2	1183.7	1142.9	1093.3	1058.4	1011.7	1000.0	976.7	947.6
70°	1116.7	1145.8	1137.1	1096.3	1061.3	1005.9	915.5	839.7	766.8	740.6	758.1
72.5°	973.8	1003.0	1003.0	982.6	935.9	851.4	763.9	676.4	615.2	568.5	562.7
75°	749.3	763.9	798.9	775.5	714.3	661.8	571.5	481.1	422.8	379.0	370.3
77.5°	478.2	501.5	501.5	498.6	454.8	405.3	347.0	282.8	239.1	207.0	198.3
80°	317.8	332.4	344.0	332.4	303.2	265.3	221.6	177.9	145.8	119.5	113.7
82.5°	233.2	250.7	259.5	247.8	218.7	189.5	157.4	125.4	93.3	72.9	67.1
85°	90.4	93.3	105.0	125.4	122.5	119.5	96.2	70.0	52.5	37.9	35.0
87.5°	23.3	20.4	23.3	23.3	20.4	17.5	17.5	17.5	17.5	8.7	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)