

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: P648114

Luminaire Tested: **GALN-SA8A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648114
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-SA8A-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA 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: 24252.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

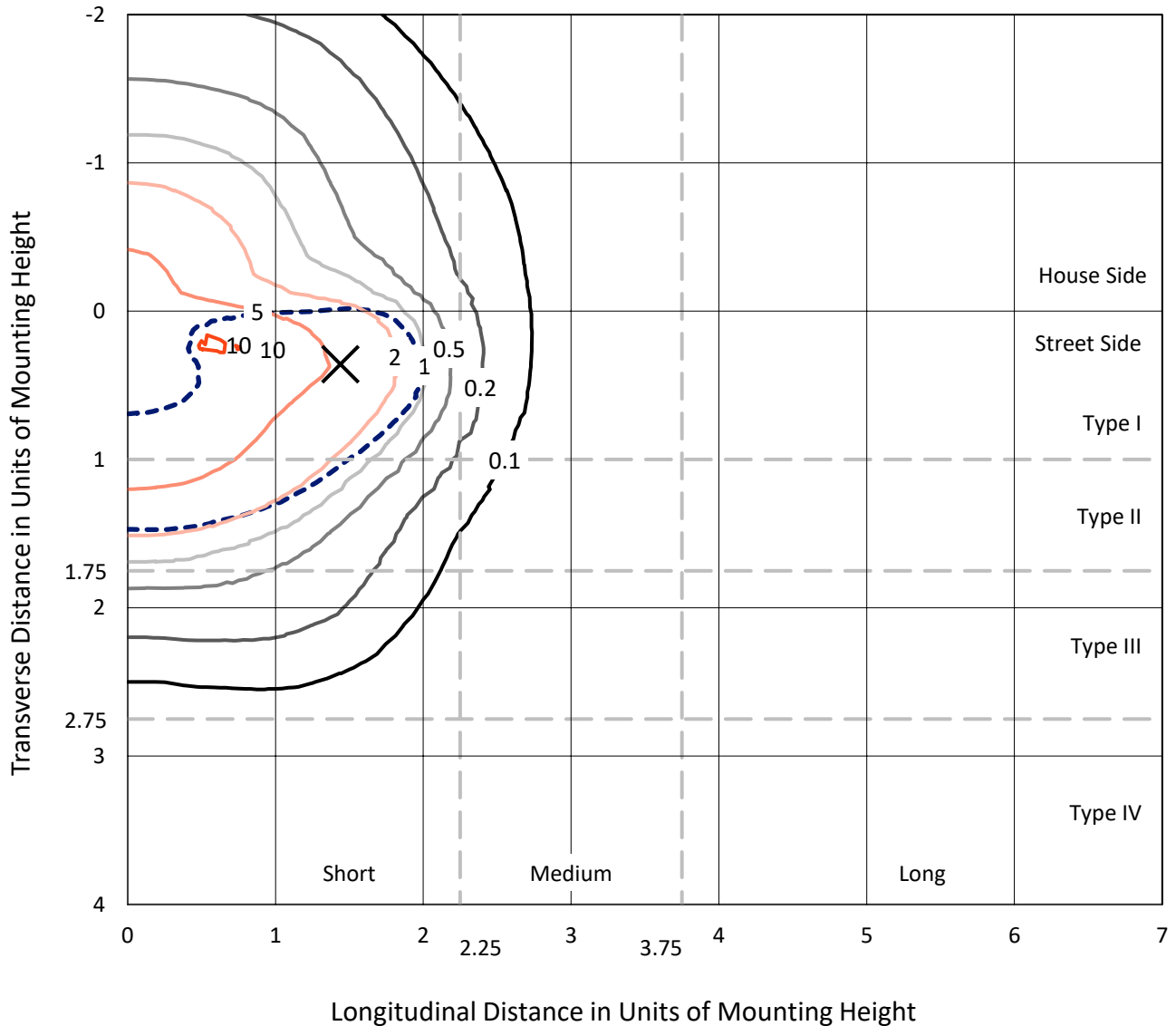
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648114
 CATALOG NUMBER: GALN-SA8A-835-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

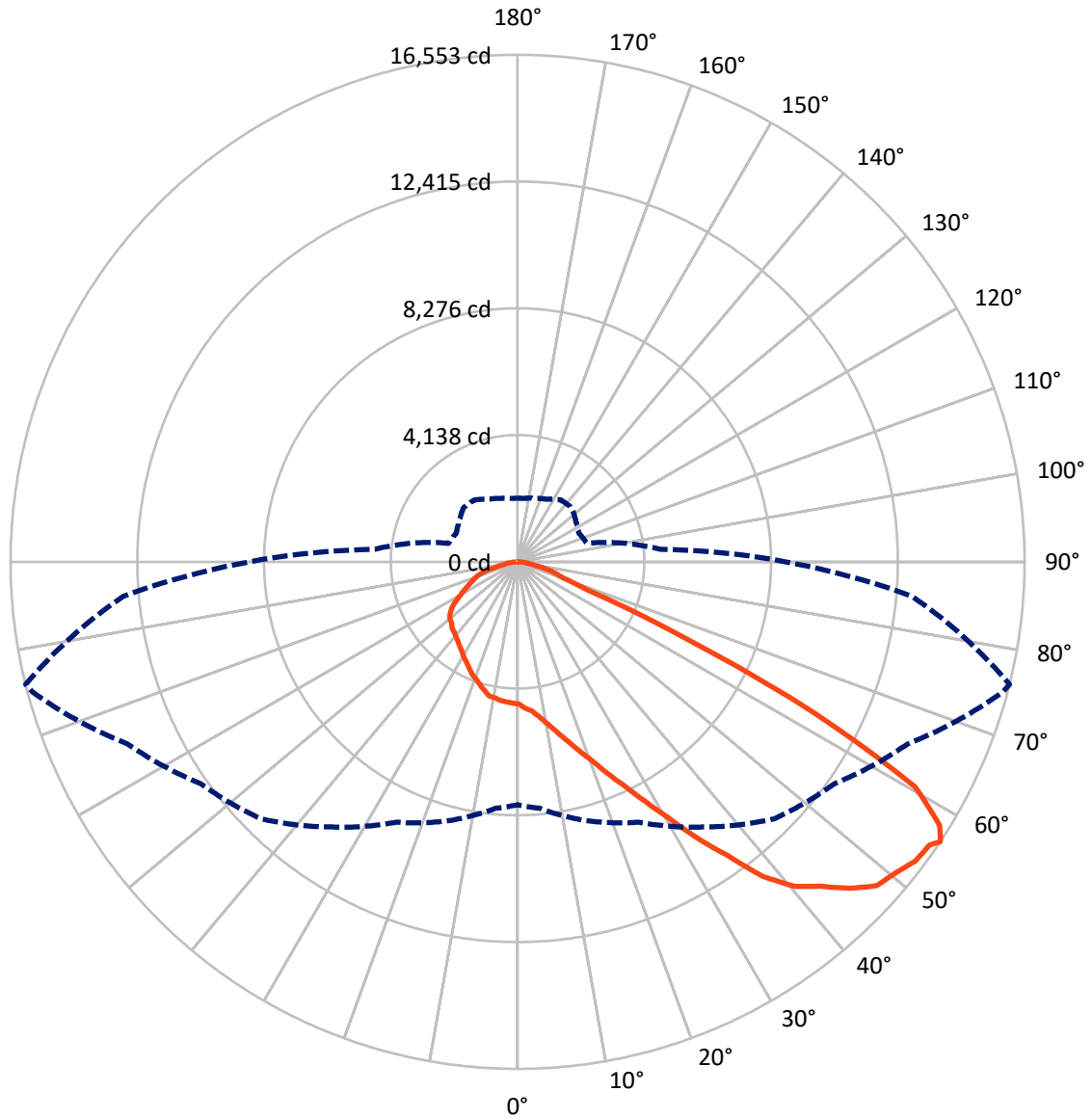
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

REPORT NUMBER: P648114
CATALOG NUMBER: GALN-SA8A-835-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P648114
 CATALOG NUMBER: GALN-SA8A-835-U-T2-GRSWH

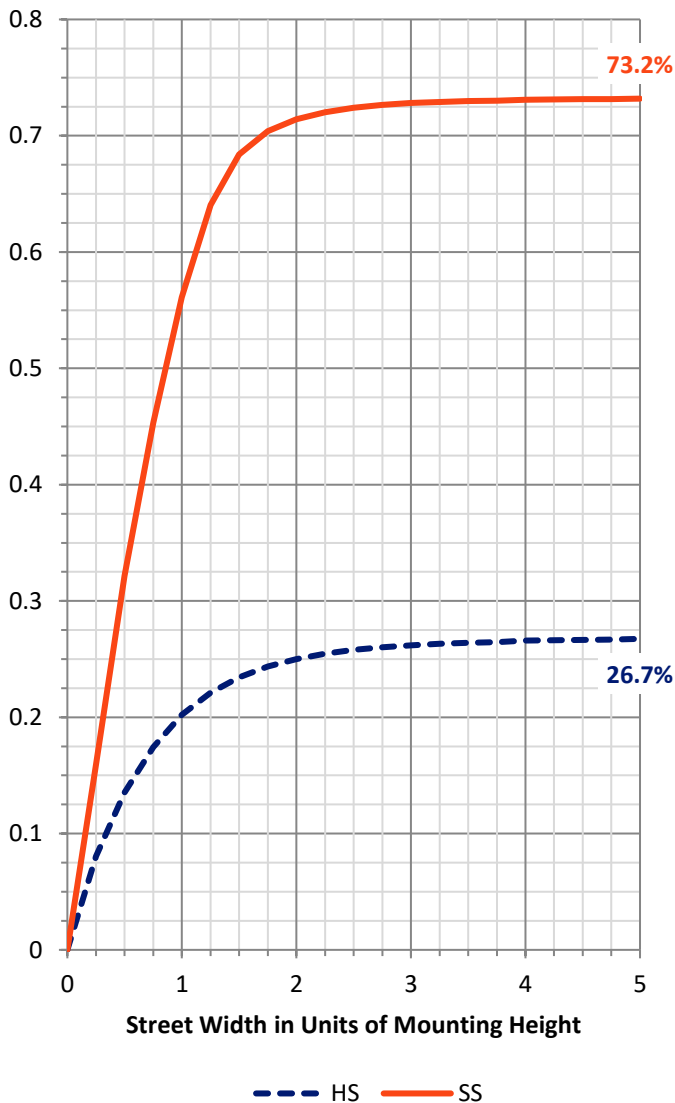
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6520.8	0.0	6520.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	17731.8	0.0	17731.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	24252.6	0.0	24252.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.2	1.9
10°-20°	1445.6	6.0
20°-30°	2528.2	10.4
30°-40°	3958.4	16.3
40°-50°	5758.3	23.7
50°-60°	6328.8	26.1
60°-70°	2824.9	11.6
70°-80°	815.9	3.4
80°-90°	132.3	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°	24252.6	100.0
0°-180°	24252.6	100.0



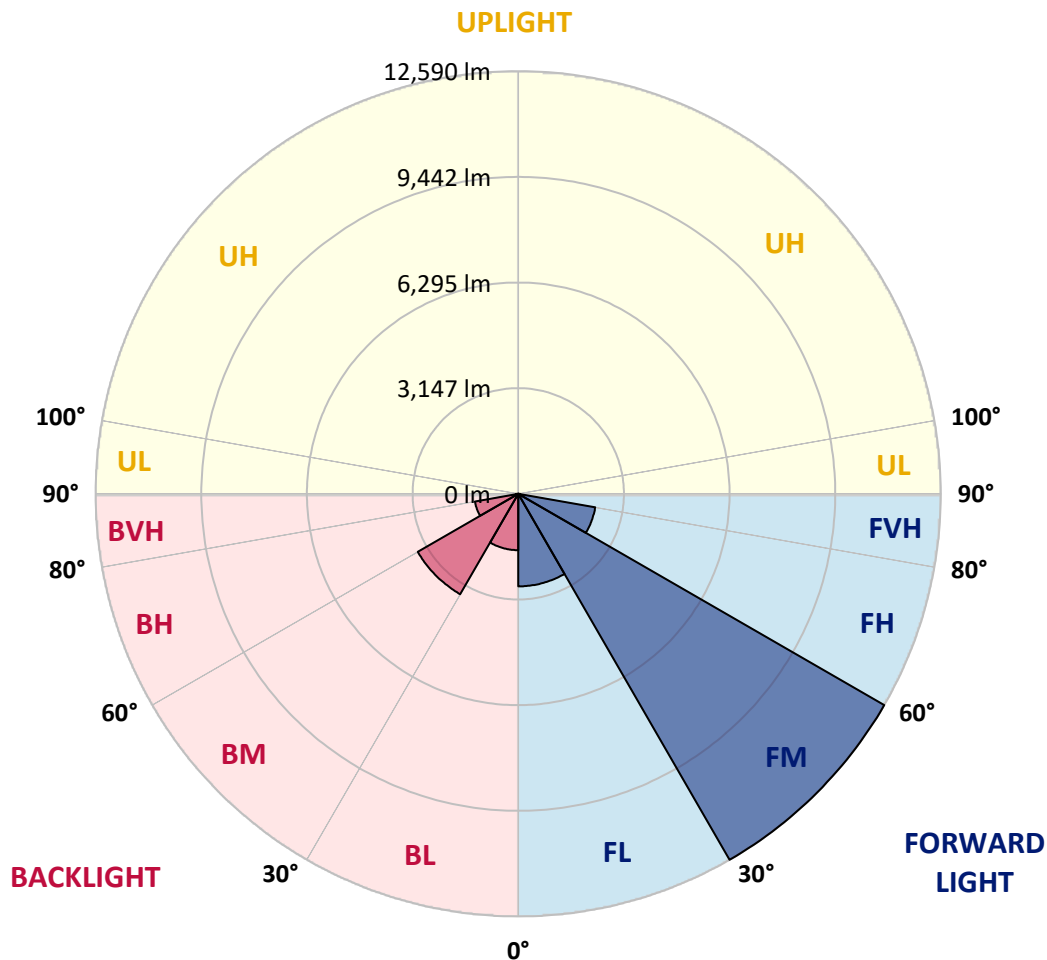
REPORT NUMBER: P648114
 CATALOG NUMBER: GALN-SA8A-835-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2756.0	11.4			
FM (30°-60°)	12590.0	51.9			
FH (60°-80°)	2328.8	9.6			G2/5000
FVH (80°-90°)	57.0	0.2			G1/100
BL (0°-30°)	1677.9	6.9	B3/2500		
BM (30°-60°)	3455.5	14.2	B3/5000		
BH (60°-80°)	1312.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	75.4	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





REPORT NUMBER: P648114

CATALOG NUMBER: GALN-SA8A-835-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4
2.5°	5112.1	5030.3	5024.0	5002.0	5014.6	4958.0	4898.2	4819.6	4737.9	4788.2	4668.7
5°	5470.4	5360.4	5404.4	5328.9	5338.4	5262.9	5140.3	5049.2	4948.6	4888.8	4803.9
7.5°	5596.2	5605.7	5637.1	5624.4	5561.6	5561.6	5479.8	5319.5	5143.4	5108.8	4967.4
10°	5765.9	5769.1	5734.5	5743.9	5831.9	5791.1	5718.8	5649.7	5423.3	5382.4	5130.9
12.5°	5825.7	5769.1	5825.7	5876.0	5979.8	6036.3	6020.6	5970.3	5728.2	5699.9	5332.1
15°	5835.2	5800.5	5847.7	5960.9	6052.0	6291.0	6410.5	6375.9	6055.2	6058.3	5558.4
17.5°	5791.1	5838.3	5857.2	5954.6	6165.3	6388.4	6734.3	6781.4	6517.4	6476.5	5844.5
20°	5850.8	5816.3	5841.4	5929.4	6209.3	6558.3	7011.0	7322.2	6951.2	6922.9	6140.1
22.5°	6080.4	6033.2	6026.9	6083.5	6284.7	6646.3	7303.4	7863.0	7479.4	7495.1	6507.9
25°	6259.5	6284.7	6262.7	6259.5	6385.3	6778.3	7690.0	8507.5	8196.2	8105.1	6941.8
27.5°	6567.6	6627.4	6583.4	6643.1	6614.8	6976.4	7966.7	9221.2	8969.6	8847.0	7334.8
30°	6995.2	7026.6	6985.8	6985.8	6900.9	7253.0	8218.2	9966.3	9862.5	9695.9	7797.0
32.5°	7558.0	7605.1	7523.4	7476.2	7463.7	7664.9	8670.9	10701.9	10878.0	10736.5	8410.0
35°	8303.1	8274.8	8177.3	8133.3	7963.6	8296.8	9343.8	11547.6	12009.8	11758.3	9151.9
37.5°	8960.2	8916.2	8909.9	8664.7	8705.6	8979.1	9915.9	12189.0	13107.0	13034.7	9934.8
40°	9573.3	9614.1	9680.2	9541.8	9478.9	9780.8	10582.5	12679.4	13959.0	13930.7	10538.4
42.5°	10230.4	10192.6	10308.9	10192.6	10098.3	10525.9	11305.6	13019.0	14707.2	14474.6	11170.4
45°	11183.0	11063.5	11104.3	11113.7	11044.6	11201.8	11604.2	13264.2	15232.3	15207.2	11632.5
47.5°	11978.3	11981.5	11912.3	11858.8	11648.2	11805.4	11937.5	13418.3	15835.9	15795.1	11811.7
50°	12273.9	12233.0	12434.2	12550.6	12563.2	12242.4	12198.4	13503.1	16153.4	15974.3	11990.9
52.5°	11211.2	11249.0	11566.5	12258.2	12657.4	12692.0	12503.4	13679.2	16282.4	16244.7	12135.6
55°	9023.1	9205.4	9727.3	10525.9	11472.2	12512.8	12833.5	13861.5	16351.5	16320.1	12776.9
56°	7932.1	8073.6	8752.7	9378.3	10566.7	11862.1	12626.0	14056.5	16405.0	16552.8	12927.8
57.5°	6385.3	6548.8	7036.1	7746.6	9148.8	10623.4	12053.8	13817.5	16197.5	16254.1	13037.9
60°	3992.8	4008.5	4593.2	5061.7	6048.9	7488.8	9199.2	12022.3	14990.2	14908.5	11711.1
62.5°	2618.9	2622.0	3153.4	3536.9	3986.5	4316.6	5413.8	7973.0	11060.3	10915.7	8337.7
65°	1839.2	1880.1	2291.9	2804.4	2986.8	2813.8	2779.3	4203.5	6177.8	5970.3	4480.1
67.5°	1345.6	1348.7	1713.4	2263.7	2527.7	2141.0	1738.6	2052.9	2445.9	2439.7	2075.0
70°	889.7	927.5	1207.2	1691.4	1993.3	1719.7	1421.1	1468.2	1556.2	1556.2	1543.7
72.5°	518.7	553.3	738.8	1072.1	1119.2	1075.2	1125.6	1257.6	1314.2	1311.1	1295.3
75°	295.5	311.2	352.1	446.5	556.5	657.1	826.8	952.6	1009.2	1043.8	1002.9
77.5°	172.9	182.4	207.5	254.6	289.2	355.2	449.6	537.6	613.1	603.6	610.0
80°	91.1	91.1	116.4	150.9	201.2	251.5	298.6	349.0	389.9	399.3	408.7
82.5°	53.5	56.6	75.5	110.0	144.6	179.2	229.5	264.1	301.8	305.0	311.2
85°	28.3	31.5	47.1	72.3	97.5	110.0	113.1	106.9	116.4	110.0	125.7
87.5°	9.4	9.4	15.7	12.6	12.6	15.7	18.9	18.9	25.1	25.1	25.1
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: P648114

CATALOG NUMBER: GALN-SA8A-835-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4	4640.4
2.5°	4665.6	4665.6	4612.1	4511.6	4495.8	4455.0	4417.2	4414.1	4385.7	4360.6	4348.1
5°	4753.6	4656.2	4577.6	4486.4	4379.5	4329.2	4272.6	4209.7	4184.6	4209.7	4206.6
7.5°	4854.2	4772.5	4536.7	4366.9	4244.3	4194.0	4131.1	4065.1	4071.4	4071.4	4027.4
10°	4951.7	4841.7	4464.4	4247.5	4068.2	4030.5	3996.0	4021.1	4052.5	4058.8	4030.5
12.5°	5115.2	4866.8	4429.8	4128.0	4014.8	3933.1	3955.1	4024.2	4090.2	4071.4	4093.4
15°	5237.8	4888.8	4272.6	4005.4	3863.9	3901.6	3980.2	4027.4	4137.4	4124.8	4146.8
17.5°	5357.2	4901.3	4118.5	3841.9	3782.1	3885.9	3945.6	4080.8	4115.4	4190.9	4219.1
20°	5602.4	4926.6	3961.4	3741.3	3722.4	3841.9	3945.6	4008.5	4084.0	4150.0	4150.0
22.5°	5728.2	4914.0	3857.6	3609.2	3669.0	3744.4	3838.7	3945.6	3945.6	4008.5	4011.6
25°	5885.4	4863.7	3694.1	3546.4	3590.4	3662.6	3769.6	3731.9	3772.7	3772.7	3823.0
27.5°	6064.6	4756.7	3552.6	3433.1	3521.2	3599.8	3615.5	3590.4	3543.2	3536.9	3518.0
30°	6209.3	4624.7	3448.9	3395.4	3467.8	3511.8	3461.5	3408.0	3326.3	3320.0	3276.0
32.5°	6407.3	4461.2	3320.0	3301.1	3382.9	3386.0	3370.3	3288.5	3169.1	3118.8	3068.5
35°	6740.5	4366.9	3222.5	3250.8	3276.0	3266.5	3238.3	3150.2	3030.8	3008.8	2989.9
37.5°	6985.8	4297.7	3121.9	3156.5	3178.5	3191.1	3106.2	3008.8	3011.9	2967.9	2955.3
40°	7262.5	4253.7	3040.2	3055.9	3059.0	3099.9	2996.1	2949.0	2971.0	2942.7	2961.5
42.5°	7617.7	4266.3	2955.3	2942.7	3002.4	2986.8	2936.4	2873.5	2886.1	2801.3	2813.8
45°	7806.4	4351.2	2905.0	2848.4	2914.4	2911.3	2845.3	2785.5	2710.0	2546.6	2552.9
47.5°	7932.1	4373.2	2785.5	2747.8	2816.9	2857.8	2782.4	2644.0	2537.2	2420.8	2392.5
50°	8061.0	4414.1	2728.9	2650.3	2678.6	2776.0	2681.8	2549.8	2445.9	2342.2	2357.9
52.5°	8174.2	4492.7	2618.9	2502.5	2552.9	2659.8	2609.4	2449.1	2335.9	2251.0	2225.9
55°	8677.2	4668.7	2433.4	2282.5	2401.9	2537.2	2508.9	2313.9	2191.3	2147.3	2141.0
56°	8755.8	4675.0	2335.9	2207.0	2317.1	2496.3	2461.7	2254.2	2144.2	2075.0	2078.2
57.5°	8768.4	4599.6	2197.6	2137.9	2232.2	2436.5	2392.5	2207.0	2056.2	1993.3	1974.4
60°	7715.2	3590.4	2024.7	1986.9	2097.0	2254.2	2238.4	2078.2	1908.3	1836.1	1870.7
62.5°	5259.8	2631.4	1889.5	1883.2	1939.8	2093.8	2052.9	1908.3	1766.9	1719.7	1697.7
65°	3062.2	1996.4	1757.4	1732.3	1779.4	1861.2	1889.5	1738.6	1590.8	1559.4	1549.9
67.5°	1807.8	1650.6	1587.7	1546.8	1531.1	1581.4	1603.4	1515.3	1367.6	1323.6	1361.3
70°	1512.2	1468.2	1471.3	1402.2	1364.5	1329.8	1311.1	1232.4	1109.8	1053.2	1037.5
72.5°	1304.7	1285.8	1273.3	1210.4	1175.8	1097.2	1015.5	936.9	845.7	798.6	801.7
75°	996.6	990.3	996.6	965.2	905.5	842.6	767.1	666.5	597.4	537.6	550.2
77.5°	594.2	613.1	622.5	610.0	584.7	528.2	481.0	415.0	349.0	301.8	295.5
80°	408.7	424.5	440.1	424.5	399.3	358.4	308.1	257.8	210.6	185.5	179.2
82.5°	311.2	327.0	336.4	320.7	289.2	245.2	210.6	176.1	138.4	113.1	106.9
85°	113.1	128.9	125.7	150.9	163.5	157.2	135.2	103.7	78.6	56.6	53.5
87.5°	31.5	28.3	31.5	31.5	31.5	28.3	25.1	25.1	25.1	15.7	12.6
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)