

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: P648132

Luminaire Tested: **GALN-SA8A-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28935.8 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

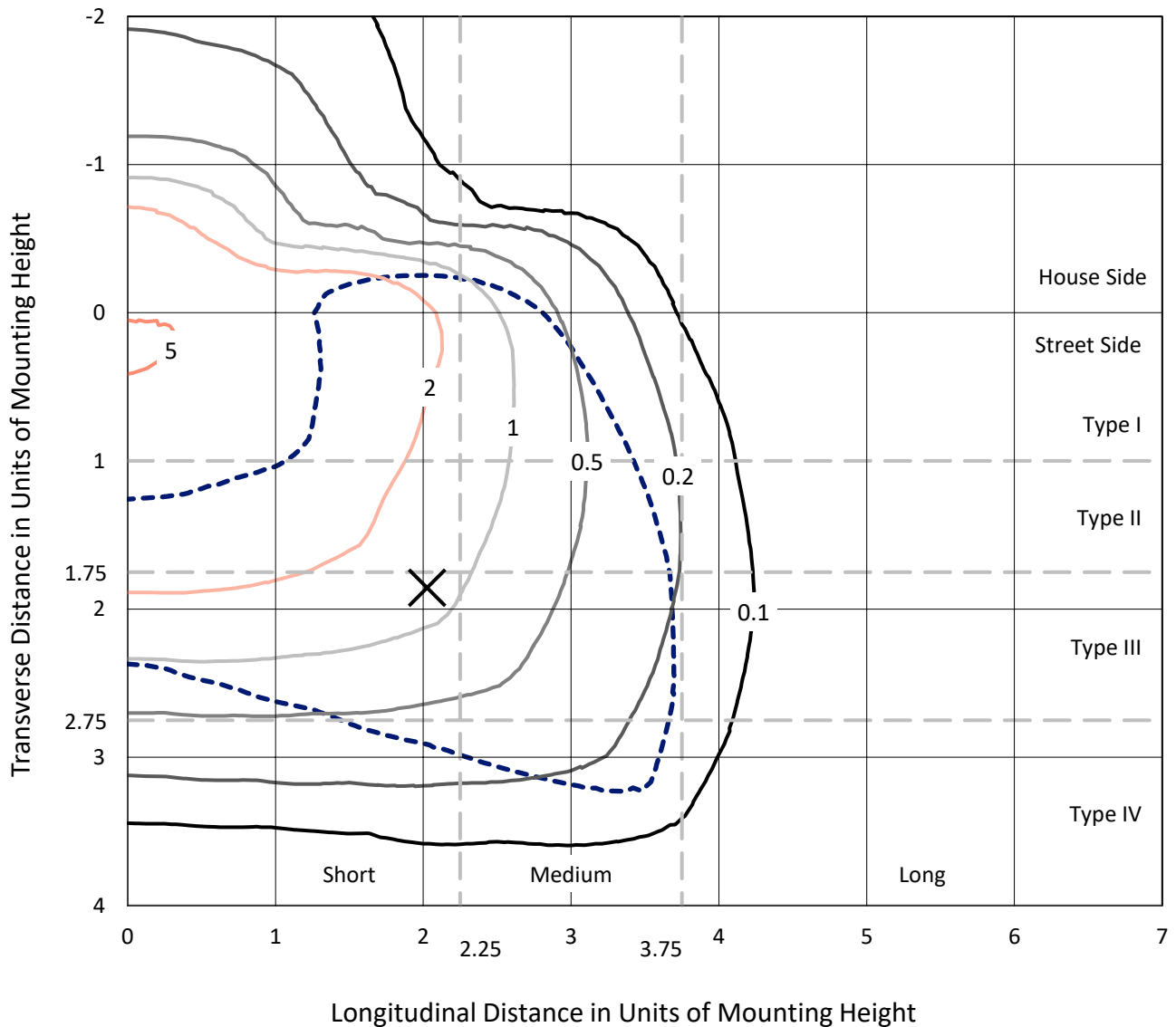
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648132  
 CATALOG NUMBER: GALN-SA8A-835-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

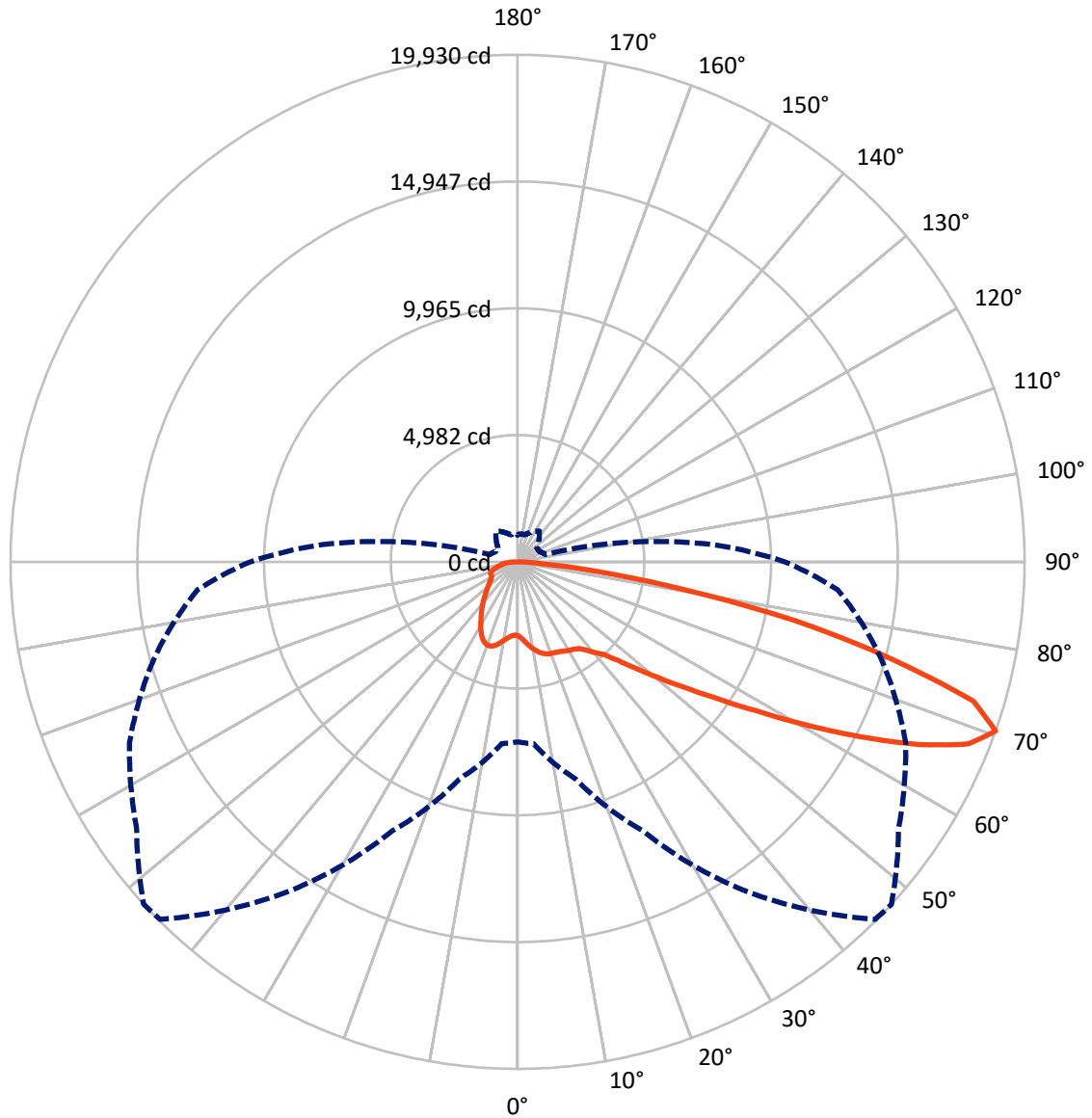
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P648132  
CATALOG NUMBER: GALN-SA8A-835-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P648132  
 CATALOG NUMBER: GALN-SA8A-835-U-T4W

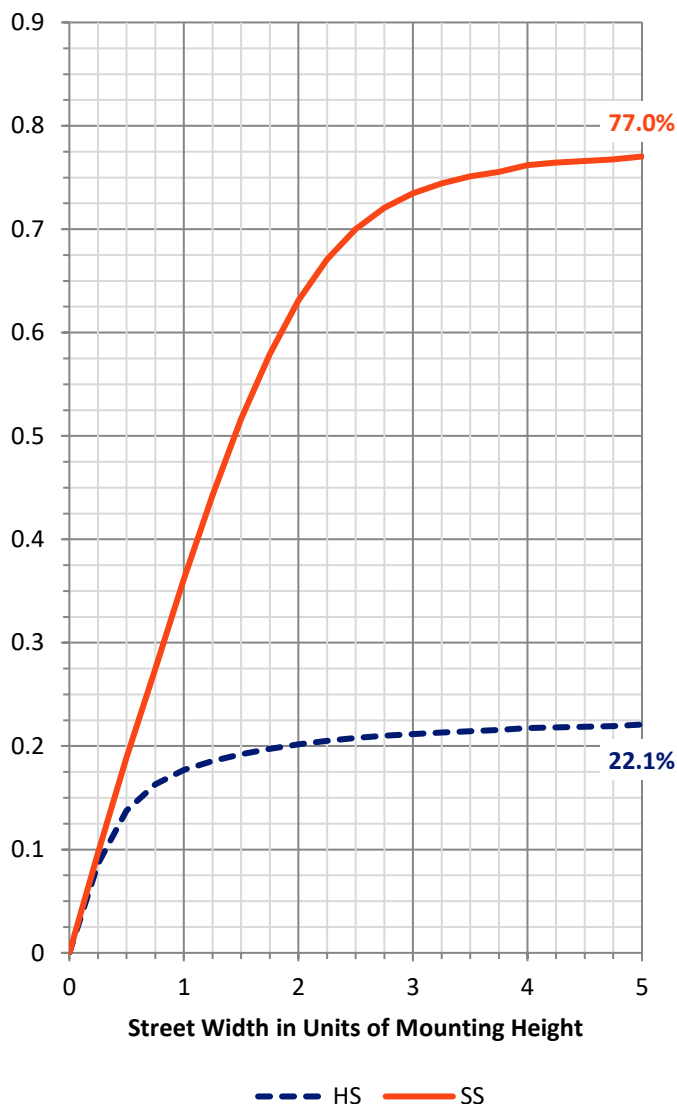
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6551.6	0.0	6551.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	22384.1	0.0	22384.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	28935.8	0.0	28935.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.4	1.0
10°-20°	1001.0	3.5
20°-30°	1664.6	5.8
30°-40°	2359.4	8.2
40°-50°	3483.0	12.0
50°-60°	6032.6	20.8
60°-70°	8521.3	29.4
70°-80°	4898.5	16.9
80°-90°	675.9	2.3
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°	28935.8	100.0
0°-180°	28935.8	100.0

**Coefficient of Utilization**

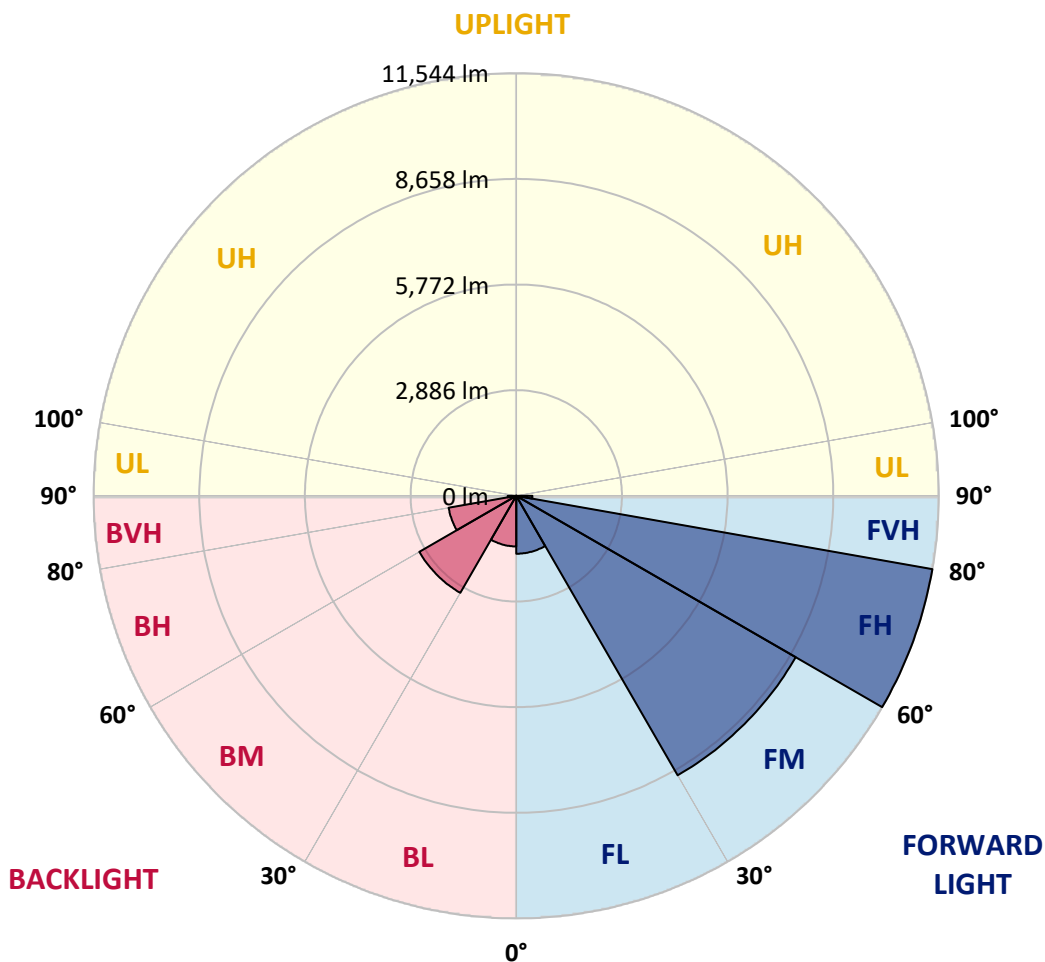


REPORT NUMBER: P648132  
 CATALOG NUMBER: GALN-SA8A-835-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.3	5.5			
FM (30°-60°)	8816.2	30.5			
FH (60°-80°)	11544.2	39.9			G4/12000
FVH (80°-90°)	441.5	1.5			G3/500
BL (0°-30°)	1382.8	4.8	B3/2500		
BM (30°-60°)	3058.8	10.6	B3/5000		
BH (60°-80°)	1875.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	234.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





REPORT NUMBER: P648132

CATALOG NUMBER: GALN-SA8A-835-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8
2.5°	3092.1	3081.3	3079.8	3056.5	3044.1	3021.0	3011.7	2990.0	2963.7	2937.3	2912.5
5°	3335.3	3335.3	3324.4	3291.9	3240.8	3188.1	3165.0	3123.2	3048.8	2988.4	2937.3
7.5°	3584.6	3587.6	3565.9	3517.9	3445.2	3360.0	3338.3	3276.4	3171.2	3082.9	3007.0
10°	3799.7	3799.7	3770.4	3705.3	3613.9	3521.1	3499.4	3429.7	3312.0	3202.1	3103.0
12.5°	3963.9	3963.9	3925.2	3840.1	3740.9	3657.3	3632.6	3565.9	3456.0	3333.7	3208.3
15°	4070.7	4063.0	4019.7	3923.6	3827.6	3754.9	3737.8	3682.1	3581.4	3457.6	3316.7
17.5°	4075.4	4072.3	4030.5	3950.0	3866.4	3816.8	3806.0	3768.8	3689.8	3572.2	3423.5
20°	3985.5	3991.8	3963.9	3906.6	3866.4	3844.7	3840.1	3827.6	3771.9	3661.9	3513.3
22.5°	3889.6	3900.4	3874.1	3843.1	3840.1	3861.7	3864.8	3867.9	3832.3	3725.4	3589.2
25°	3866.4	3874.1	3847.8	3819.9	3836.9	3894.3	3906.6	3919.0	3891.1	3801.3	3679.0
27.5°	3984.1	3977.9	3926.7	3866.4	3877.2	3954.6	3971.7	3985.5	3971.7	3894.3	3790.5
30°	4316.9	4296.8	4194.6	4018.1	3962.4	4016.6	4033.6	4072.3	4072.3	4015.0	3911.2
32.5°	4874.3	4835.7	4648.3	4301.5	4107.9	4075.4	4092.4	4155.9	4188.4	4143.6	4030.5
35°	5551.0	5510.8	5242.9	4776.8	4374.2	4193.0	4188.4	4259.7	4346.4	4245.7	4098.6
37.5°	6230.8	6189.0	5866.9	5343.5	4762.9	4440.8	4412.9	4437.7	4474.8	4290.6	4193.0
40°	6910.5	6861.0	6579.2	5976.8	5238.3	4769.1	4696.3	4584.9	4569.4	4437.7	4375.8
42.5°	7584.1	7539.2	7396.7	6687.5	5808.1	5089.6	4978.1	4786.1	4845.0	4766.0	4711.8
45°	8263.9	8266.9	8115.2	7485.0	6495.5	5681.1	5530.9	5230.5	5369.9	5340.5	5371.4
47.5°	8866.1	8858.4	8804.2	8259.2	7348.7	6442.9	6249.4	5900.9	6139.4	6247.8	6484.7
50°	9449.9	9445.3	9448.4	9137.1	8339.7	7348.7	7135.0	6769.6	7306.9	7683.2	8107.4
52.5°	10286.0	10312.3	10125.0	10042.9	9544.4	8418.7	8183.3	7805.5	8686.5	9279.6	10108.0
55°	11125.3	11103.6	10956.5	11041.6	10804.8	9685.2	9439.1	9138.7	10222.5	10871.3	12116.2
57.5°	11619.2	11626.9	11777.2	12193.7	12360.9	11264.6	11041.6	10809.4	11949.0	12408.9	13903.1
60°	12063.6	12099.2	12531.2	13317.8	13771.5	13204.7	13006.6	12780.5	13533.1	13715.7	15454.6
62.5°	12203.0	12312.9	13066.9	14243.8	15146.5	15394.2	15148.0	14649.5	15041.2	14969.9	16506.0
65°	11507.8	11657.9	13009.7	14590.6	16374.3	17472.2	17315.8	16389.8	16326.3	15897.5	16677.8
67.5°	9677.5	9827.7	11563.5	13862.9	16882.3	19271.4	19115.0	17659.5	17106.7	15984.2	15377.2
70°	7080.8	7175.3	8835.2	11671.9	15861.9	19875.3	19929.5	18278.9	16828.0	14805.8	12625.6
72.5°	4080.1	4289.0	5452.0	8211.2	12958.6	18348.6	18724.8	16990.6	15065.9	12351.6	8827.5
75°	1754.3	1759.0	2520.8	4529.1	8776.3	14748.5	15112.4	14084.3	11831.4	8541.0	4713.3
77.5°	834.6	850.1	1108.6	2022.2	4831.0	10190.0	11171.7	9950.1	7567.1	4103.2	1780.7
80°	541.9	552.8	678.2	1003.3	2369.0	5908.7	6593.1	5739.9	3338.3	1466.3	768.0
82.5°	328.2	331.4	453.7	613.2	1303.8	2675.7	3154.1	2491.3	1424.5	878.0	452.1
85°	199.7	201.3	275.6	379.4	791.2	924.4	949.2	941.4	836.2	574.5	241.6
87.5°	96.0	99.1	142.4	179.6	311.2	286.4	271.0	314.3	394.9	309.7	103.7
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: P648132  
 CATALOG NUMBER: GALN-SA8A-835-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8
2.5°	2901.7	2897.0	2886.2	2881.6	2878.5	2880.0	2878.5	2878.5	2880.0	2880.0	2880.0
5°	2915.7	2907.9	2890.8	2890.8	2900.2	2921.8	2942.0	2957.5	2974.5	2972.9	2972.9
7.5°	2976.0	2962.1	2942.0	2948.2	2971.4	3005.5	3041.1	3075.2	3109.2	3112.3	3110.7
10°	3064.3	3050.3	3028.6	3036.4	3073.6	3124.6	3169.6	3219.1	3256.3	3267.1	3264.0
12.5°	3165.0	3137.1	3118.5	3140.1	3199.0	3267.1	3310.4	3347.6	3373.9	3389.5	3383.3
15°	3267.1	3240.8	3219.1	3264.0	3335.3	3398.8	3420.5	3426.6	3431.3	3446.8	3443.6
17.5°	3366.2	3330.6	3322.9	3381.7	3449.8	3477.7	3465.3	3439.0	3418.9	3431.3	3429.7
20°	3454.5	3426.6	3423.5	3482.4	3508.7	3482.4	3429.7	3383.3	3347.6	3350.8	3349.2
22.5°	3538.1	3516.5	3519.5	3544.3	3502.5	3412.7	3325.9	3262.4	3223.8	3231.5	3236.1
25°	3631.0	3609.3	3617.1	3576.8	3439.0	3282.6	3157.2	3103.0	3087.5	3103.0	3113.8
27.5°	3751.7	3737.8	3733.2	3578.4	3325.9	3090.6	2948.2	2928.0	2942.0	2976.0	2993.1
30°	3881.9	3881.9	3857.1	3552.0	3171.2	2859.9	2736.0	2739.1	2787.1	2835.1	2852.2
32.5°	4007.2	4033.6	3956.2	3480.8	2971.4	2635.3	2540.9	2544.0	2585.9	2644.7	2660.2
35°	4111.0	4186.9	4041.3	3350.8	2736.0	2446.5	2375.2	2333.4	2335.0	2379.9	2392.3
37.5°	4253.5	4394.4	4090.9	3157.2	2485.2	2285.4	2204.9	2132.2	2084.1	2065.6	2065.6
40°	4501.2	4708.7	4103.2	2870.7	2248.3	2132.2	2017.6	1930.9	1837.9	1754.3	1738.9
42.5°	4920.8	5182.5	4078.5	2540.9	2034.6	1963.4	1851.9	1745.1	1616.5	1498.8	1489.6
45°	5664.1	5798.7	4011.9	2198.7	1844.1	1800.8	1692.4	1576.3	1440.0	1334.7	1327.0
47.5°	6854.8	6664.3	3923.6	1895.3	1670.7	1658.3	1574.7	1440.0	1303.8	1231.0	1223.2
50°	8593.7	8026.9	3911.2	1675.4	1531.4	1537.6	1469.5	1345.6	1226.3	1166.0	1156.6
52.5°	10687.1	9672.9	3993.3	1520.5	1409.0	1432.3	1398.2	1283.7	1178.3	1127.2	1118.0
55°	12718.6	11153.1	4042.9	1399.8	1294.5	1337.8	1342.5	1246.5	1150.5	1099.3	1093.1
57.5°	14367.7	12268.0	3823.0	1289.8	1195.3	1262.0	1296.0	1224.8	1136.5	1097.8	1091.7
60°	15515.0	12794.5	3197.5	1192.3	1122.6	1201.6	1279.0	1226.3	1170.6	1175.2	1178.3
62.5°	15880.4	12560.7	2398.5	1119.5	1073.0	1181.5	1306.8	1289.8	1232.5	1268.1	1274.3
65°	15275.0	11594.4	1738.9	1062.2	1029.7	1195.3	1390.5	1336.3	1210.8	1237.1	1237.1
67.5°	13248.1	9988.7	1353.3	1009.5	980.2	1221.7	1474.1	1331.6	1159.8	1190.7	1162.8
70°	10509.0	7726.6	1127.2	950.7	927.5	1183.0	1481.8	1283.7	1099.3	1105.6	1052.9
72.5°	6974.0	5080.3	969.3	895.0	847.0	1063.8	1418.3	1221.7	1040.5	1004.9	952.3
75°	3417.3	2533.2	845.4	825.3	741.7	926.0	1331.6	1162.8	977.0	921.3	891.9
77.5°	1323.9	1077.7	721.5	737.0	645.7	816.0	1217.0	1079.2	893.4	817.5	794.4
80°	642.6	611.6	591.5	614.7	531.1	695.2	1111.8	1006.5	816.0	732.4	698.4
82.5°	399.5	377.8	453.7	478.5	408.8	634.9	1054.5	944.5	718.5	607.0	579.1
85°	202.9	216.8	303.5	326.7	292.7	504.8	868.7	709.2	518.7	430.5	433.5
87.5°	77.4	103.7	159.5	171.9	156.4	266.3	478.5	413.4	332.9	226.1	209.1
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)