

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: P648397

Luminaire Tested: **GALN-SA4B-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15027.3 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

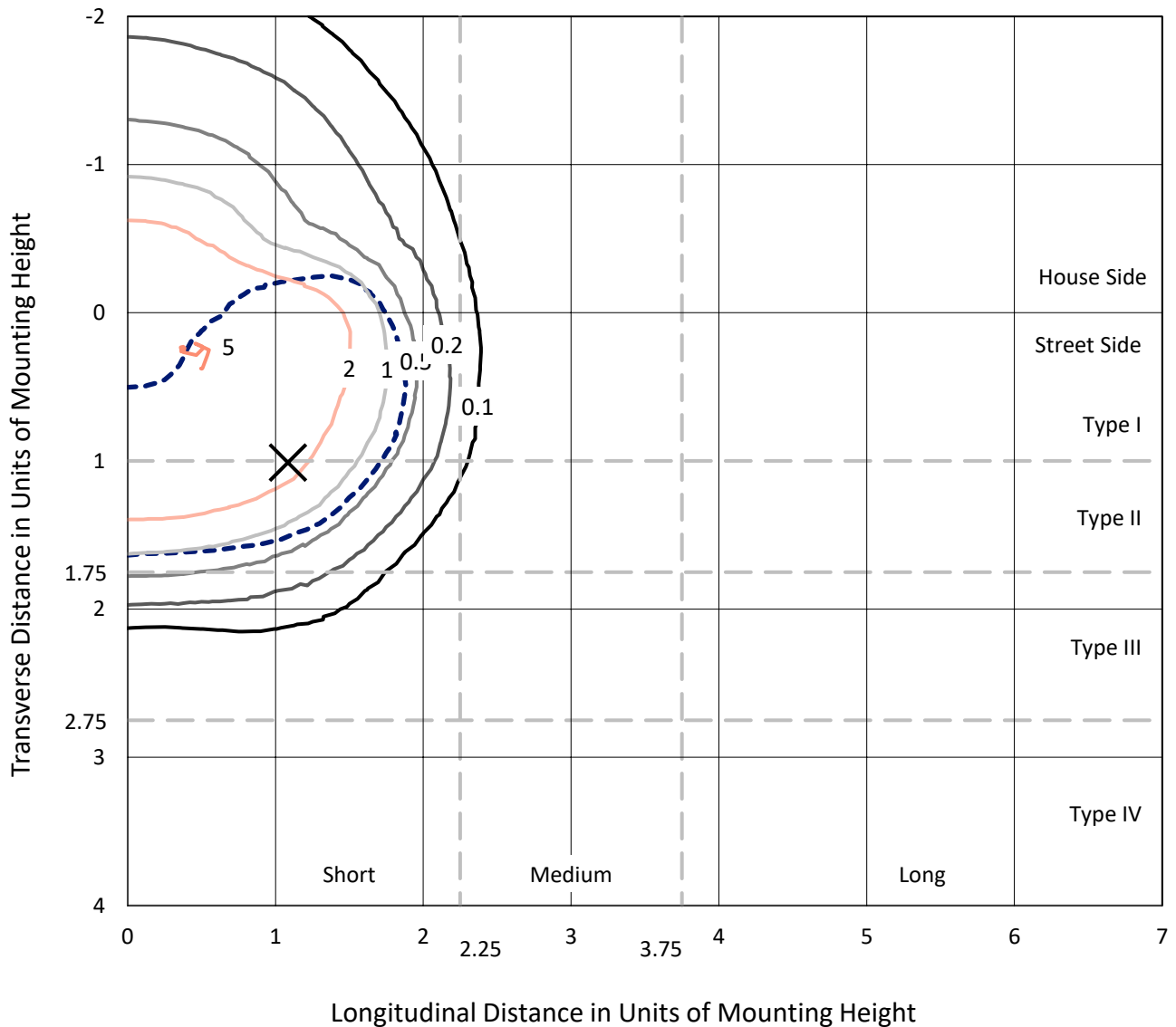
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

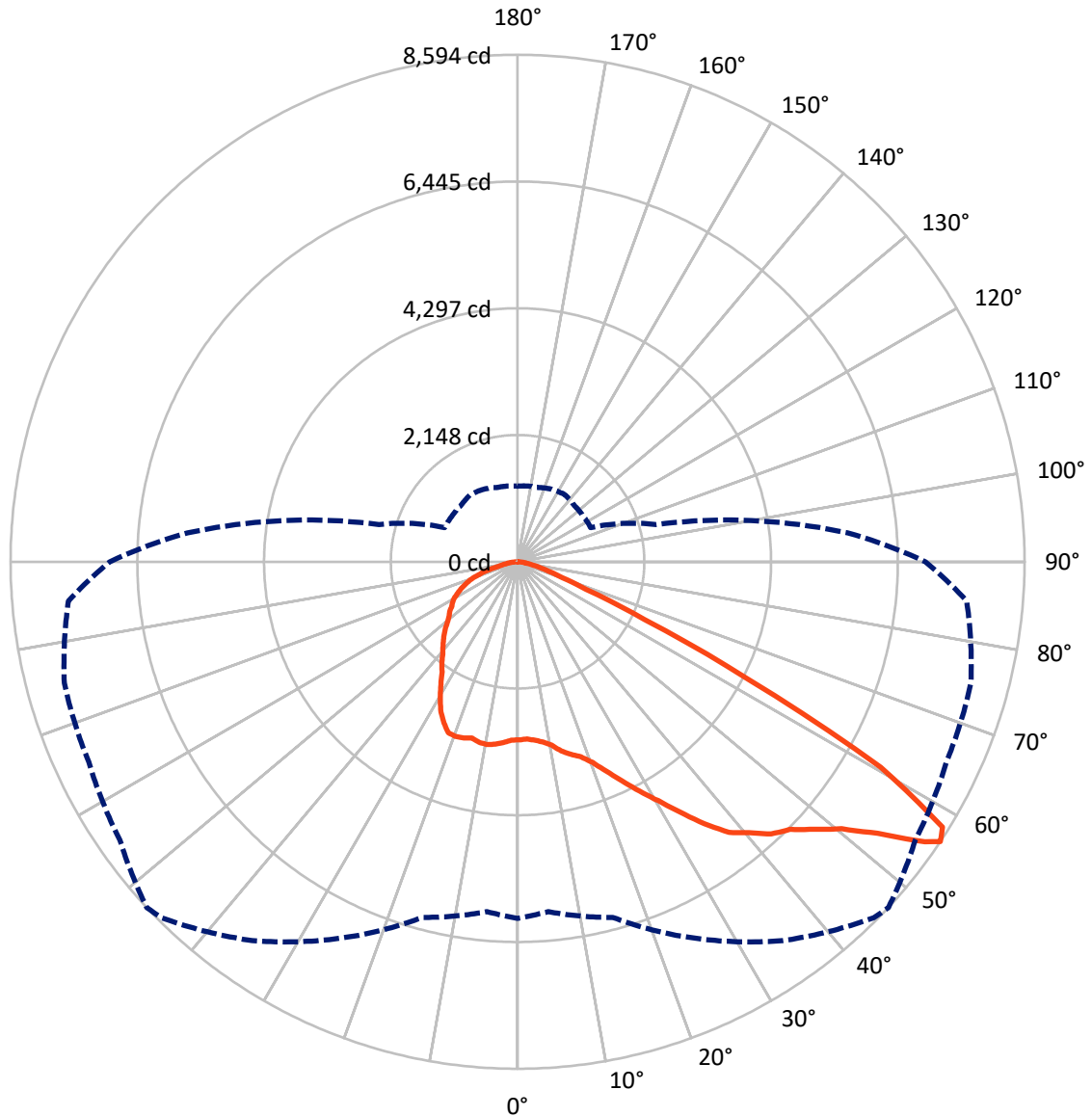
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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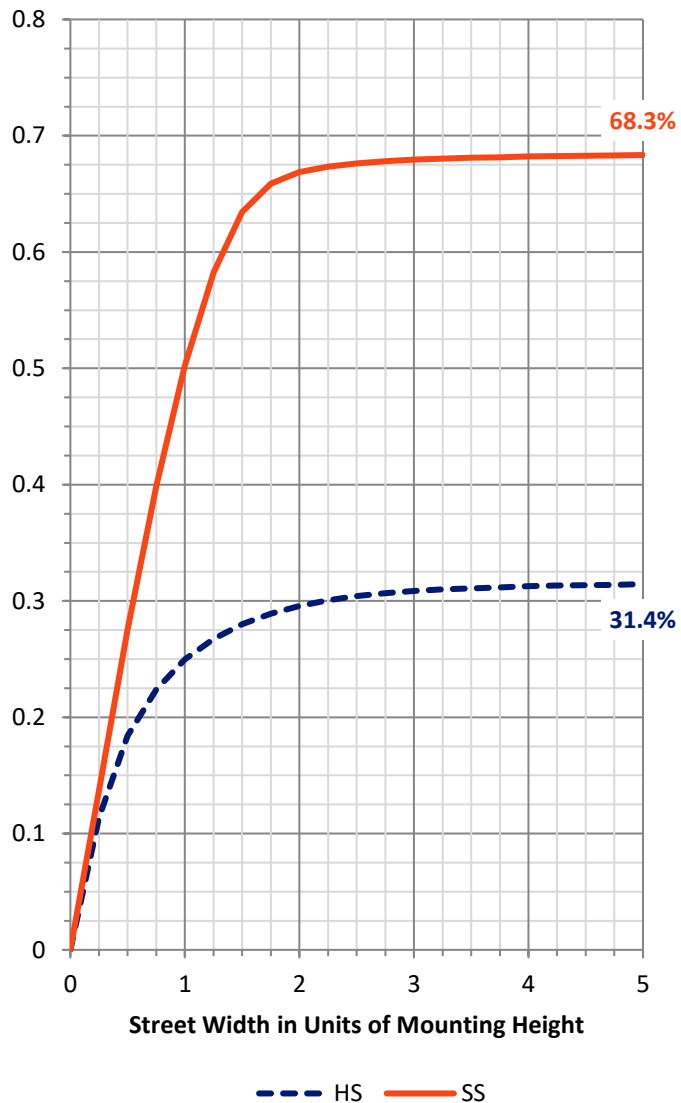
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4762.0	0.0	4762.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	10265.4	0.0	10265.4
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	15027.3	0.0	15027.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.1	2.0
10°-20°	927.8	6.2
20°-30°	1640.1	10.9
30°-40°	2463.4	16.4
40°-50°	3380.7	22.5
50°-60°	4027.7	26.8
60°-70°	1723.6	11.5
70°-80°	487.8	3.2
80°-90°	82.1	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°	15027.3	100.0
0°-180°	15027.3	100.0

**Coefficient of Utilization**



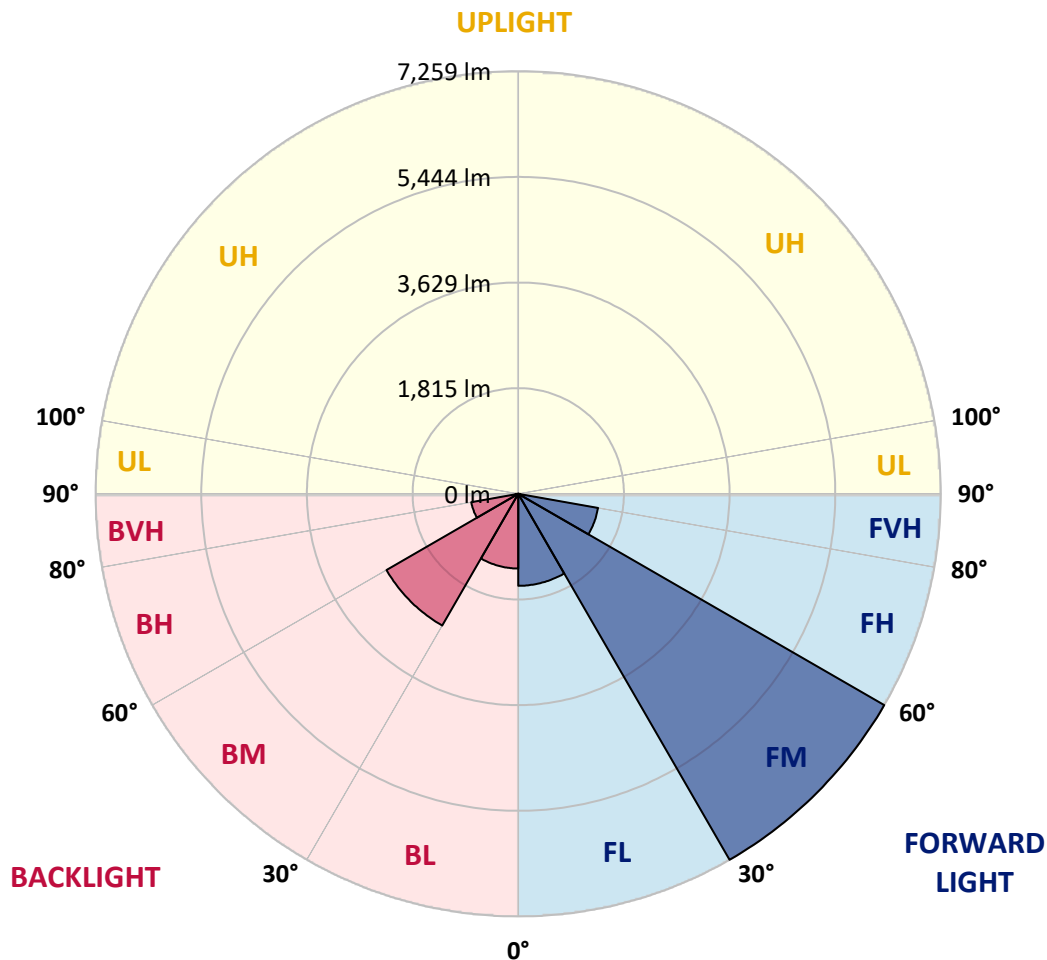
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.9	10.5			
FM (30°-60°)	7258.6	48.3			
FH (60°-80°)	1392.1	9.3			G1/1800
FVH (80°-90°)	34.8	0.2			G1/100
BL (0°-30°)	1282.1	8.5	B3/2500		
BM (30°-60°)	2613.3	17.4	B3/5000		
BH (60°-80°)	819.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	47.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	3007.0	3001.3	2997.5	3028.1	3016.6	3018.5	3007.0	3018.5	3026.2	3009.0	3033.9
5°	3001.3	3018.5	3003.2	3012.7	3037.7	3030.1	3037.7	3060.7	3055.0	3049.2	3041.6
7.5°	3055.0	3056.8	3068.3	3072.2	3079.9	3072.2	3083.7	3104.8	3099.0	3066.5	3070.3
10°	3131.6	3135.4	3137.3	3158.5	3171.9	3173.8	3160.3	3141.2	3139.3	3183.4	3152.7
12.5°	3219.8	3210.2	3233.2	3240.8	3256.2	3273.4	3290.7	3250.5	3275.4	3277.2	3240.8
15°	3348.2	3357.7	3331.0	3331.0	3336.7	3338.6	3386.5	3367.4	3363.5	3342.4	3357.7
17.5°	3539.9	3474.6	3472.8	3445.9	3442.1	3457.4	3474.6	3490.0	3541.7	3499.6	3417.2
20°	3679.7	3695.1	3639.5	3606.9	3612.7	3647.1	3629.9	3698.9	3735.3	3666.3	3585.8
22.5°	3927.0	3875.2	3888.6	3815.8	3821.6	3858.0	3856.0	3927.0	3948.0	3838.8	3721.9
25°	4093.7	4080.3	4091.8	4034.3	4041.9	4070.7	4116.7	4233.6	4199.2	4078.4	3808.1
27.5°	4337.1	4310.3	4300.7	4279.6	4272.0	4348.6	4402.3	4526.8	4501.9	4325.6	3961.4
30°	4586.3	4569.0	4578.6	4492.4	4523.0	4685.9	4701.2	4871.8	4860.3	4549.9	4132.0
32.5°	4758.8	4768.3	4785.5	4737.7	4873.7	5004.1	5055.8	5249.4	5258.9	4935.1	4461.7
35°	5036.6	5004.1	5013.6	5069.2	5132.5	5370.1	5454.5	5582.9	5663.4	5339.4	4777.9
37.5°	5211.0	5245.6	5205.3	5293.5	5458.3	5743.9	5820.5	5952.8	6037.1	5738.1	5209.1
40°	5483.2	5427.6	5456.3	5519.6	5688.3	6060.1	6039.0	6175.1	6201.9	6077.3	5611.6
42.5°	5776.4	5749.6	5709.3	5853.1	5994.9	6265.2	6307.3	6244.0	6380.1	6408.9	6186.6
45°	6127.1	6159.7	6165.5	6169.3	6293.9	6529.6	6472.1	6416.5	6573.7	6782.6	6543.1
47.5°	6452.9	6349.5	6424.2	6527.7	6704.0	6705.9	6773.0	6640.8	6807.5	6993.4	6865.0
50°	6562.2	6512.4	6612.0	6807.5	7079.7	7108.4	7116.1	6928.2	7014.5	7162.1	6976.1
52.5°	6520.0	6502.8	6757.7	7060.5	7459.2	7604.8	7643.1	7411.3	7459.2	7392.1	7221.5
55°	6318.8	6370.6	6627.4	7244.5	7855.8	8306.2	8379.0	8085.8	7781.1	7832.9	7645.1
56°	6042.8	5952.8	6240.2	7035.6	7838.6	8534.3	8593.7	8227.7	8020.7	7953.6	7641.2
57.5°	5126.7	5009.8	5387.4	6330.3	7403.6	8448.1	8492.2	8287.1	7980.4	7844.3	7083.5
60°	3001.3	3058.8	3537.9	4365.9	5711.3	6926.3	7073.9	7223.4	7018.3	6408.9	5272.4
62.5°	1448.9	1412.5	1755.6	2503.0	3480.4	4421.4	4377.4	4797.0	5027.1	4553.7	3329.0
65°	759.0	755.1	958.2	1366.5	1912.7	2322.8	2363.1	2589.2	2905.5	2345.9	1690.4
67.5°	557.7	573.1	674.6	960.2	1230.4	1255.3	1249.6	1362.7	1393.3	1178.6	1038.7
70°	437.0	444.7	519.4	730.2	916.1	820.3	803.0	816.4	906.6	944.8	898.9
72.5°	316.3	323.9	387.1	492.6	573.1	559.6	571.1	645.9	757.0	797.3	749.3
75°	210.8	216.6	251.0	300.9	339.2	366.1	387.1	473.4	576.9	599.9	576.9
77.5°	145.6	151.4	174.4	212.7	216.6	233.8	241.5	281.7	345.0	373.7	358.4
80°	82.4	82.4	93.9	109.2	134.1	157.1	161.0	193.6	222.3	241.5	245.3
82.5°	38.4	40.2	49.8	67.1	88.2	109.2	113.1	134.1	155.3	174.4	180.2
85°	19.2	21.1	28.7	40.2	53.6	65.1	63.3	65.1	69.0	65.1	67.1
87.5°	5.7	5.7	7.7	9.6	7.7	9.6	9.6	11.5	13.4	15.3	17.2
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°	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	3035.8	3041.6	3003.2	3039.6	3026.2	3024.3	3051.1	3047.3	3056.8	3053.0	3030.1
5°	3037.7	3024.3	3064.5	3028.1	3045.4	3081.8	3056.8	3114.4	3085.6	3104.8	3062.6
7.5°	3097.1	3100.9	3093.2	3108.6	3100.9	3118.2	3104.8	3118.2	3095.2	3097.1	3135.4
10°	3148.8	3137.3	3150.8	3131.6	3145.0	3139.3	3108.6	3099.0	3106.7	3097.1	3122.1
12.5°	3244.7	3223.6	3214.1	3191.0	3175.7	3118.2	3070.3	3043.4	3079.9	3085.6	3074.1
15°	3342.4	3344.3	3300.3	3248.5	3152.7	3066.5	3078.0	3087.5	3087.5	3102.9	3074.1
17.5°	3403.8	3403.8	3363.5	3260.0	3162.3	3112.4	3100.9	3070.3	3043.4	3039.6	3037.7
20°	3511.1	3478.5	3386.5	3258.1	3158.5	3135.4	3049.2	2976.3	2920.8	2901.6	2899.7
22.5°	3633.7	3551.3	3422.9	3261.9	3152.7	3120.1	2959.1	2849.9	2750.2	2708.1	2713.8
25°	3746.8	3614.6	3444.0	3244.7	3131.6	2974.5	2794.3	2642.9	2539.4	2504.9	2487.7
27.5°	3825.4	3681.7	3444.0	3260.0	3053.0	2811.5	2627.6	2434.0	2343.9	2320.9	2324.7
30°	3930.8	3766.0	3503.5	3227.4	2895.8	2600.7	2380.3	2253.9	2200.2	2181.0	2194.4
32.5°	4178.0	3986.4	3585.8	3148.8	2710.0	2390.0	2211.7	2140.8	2062.2	2023.8	2010.4
35°	4446.3	4195.3	3666.3	3016.6	2501.1	2198.3	2087.1	2021.9	1928.1	1885.9	1893.5
37.5°	4825.8	4463.6	3672.0	2798.1	2274.9	2090.9	1989.4	1887.8	1811.2	1745.9	1726.8
40°	5337.6	4829.6	3658.6	2568.2	2092.9	1964.5	1889.7	1763.2	1677.0	1631.0	1640.5
42.5°	5787.9	5258.9	3603.1	2307.5	1928.1	1878.2	1793.9	1669.3	1584.9	1537.0	1533.2
45°	6167.4	5575.2	3497.7	2085.2	1790.0	1782.3	1684.6	1588.8	1521.8	1477.7	1496.8
47.5°	6518.1	5830.1	3338.6	1862.8	1663.6	1678.9	1584.9	1525.6	1483.4	1443.1	1441.3
50°	6644.6	5826.2	3198.7	1678.9	1562.0	1554.3	1550.5	1487.2	1443.1	1408.6	1424.0
52.5°	6855.4	5891.4	3047.3	1552.4	1470.0	1471.9	1485.3	1439.3	1389.5	1368.4	1387.6
55°	7158.3	5901.0	2713.8	1404.8	1393.3	1406.7	1406.7	1376.0	1333.9	1316.7	1307.1
56°	6911.0	5615.4	2434.0	1366.5	1355.0	1355.0	1391.4	1356.9	1305.2	1291.7	1280.2
57.5°	6374.4	4919.7	2037.3	1320.5	1303.2	1330.1	1349.3	1312.9	1264.9	1245.8	1257.3
60°	4396.5	3329.0	1531.3	1220.9	1220.9	1264.9	1280.2	1226.6	1205.5	1203.5	1188.3
62.5°	2566.2	1939.5	1197.8	1130.7	1134.6	1171.0	1182.5	1151.9	1125.0	1157.6	1172.9
65°	1360.7	1157.6	1027.3	1034.9	1036.8	1065.6	1115.4	1113.5	1111.6	1121.2	1123.1
67.5°	985.1	962.1	933.3	925.7	929.5	950.6	1000.4	1038.7	1036.8	1013.8	996.6
70°	877.7	845.2	827.9	829.8	814.6	839.5	879.7	904.6	860.5	833.7	822.2
72.5°	730.2	720.6	709.1	711.0	680.3	674.6	628.6	628.6	617.2	609.5	622.9
75°	557.7	553.9	559.6	550.1	517.5	483.0	456.1	431.2	392.9	377.6	369.9
77.5°	352.7	364.2	377.6	356.5	343.0	318.1	291.3	266.4	235.8	218.5	218.5
80°	239.6	249.2	258.7	254.9	239.6	216.6	195.5	168.7	147.6	134.1	132.2
82.5°	182.0	189.7	203.2	187.8	172.5	153.3	136.1	116.9	97.7	82.4	82.4
85°	65.1	74.8	82.4	90.0	95.8	97.7	84.3	69.0	55.6	44.1	42.1
87.5°	17.2	19.2	21.1	19.2	19.2	19.2	21.1	19.2	17.2	13.4	13.4
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)