

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: P648557

Luminaire Tested: **GALN-SA7B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648557  
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-SA7B-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 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: 27269.6 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

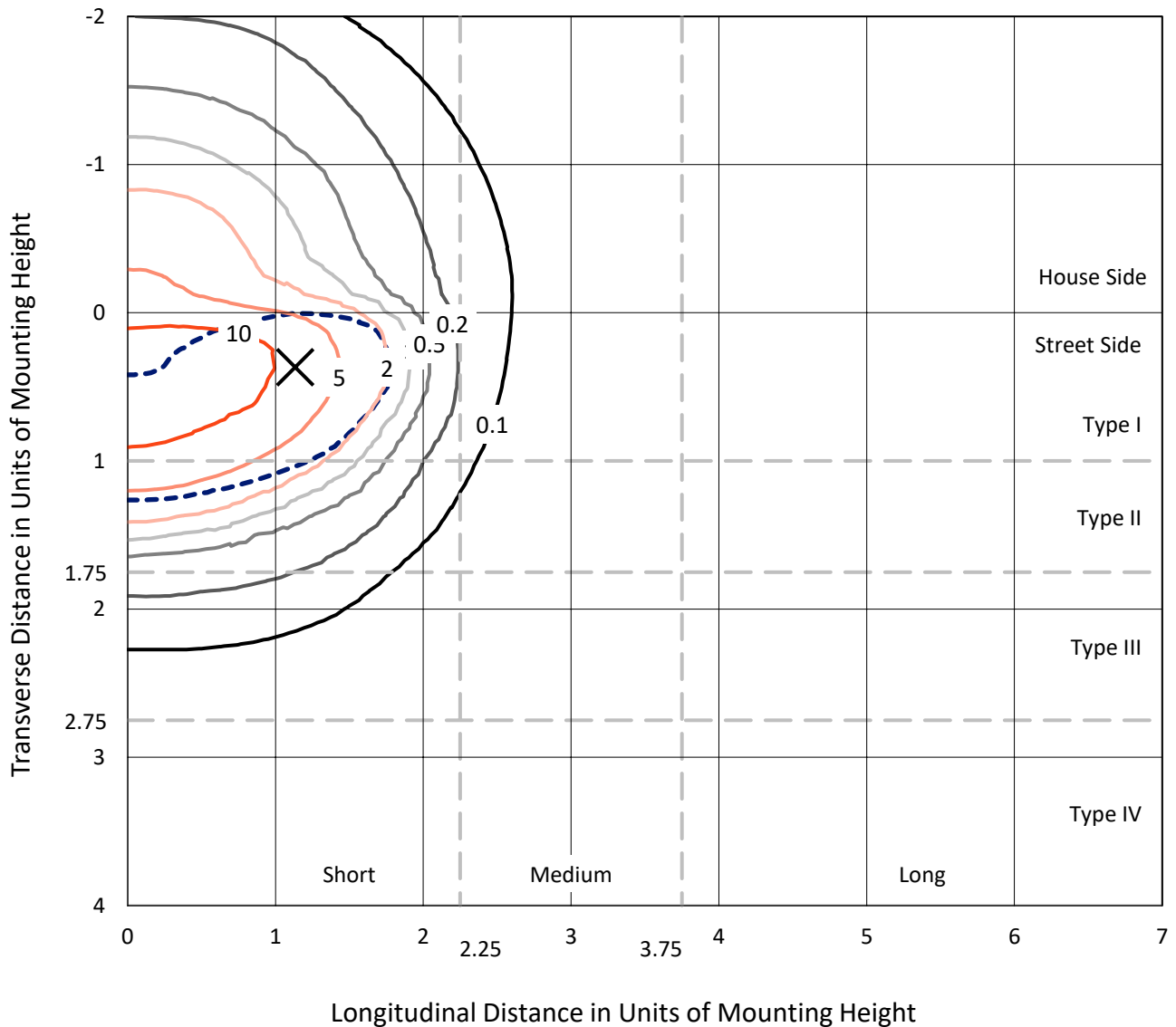
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

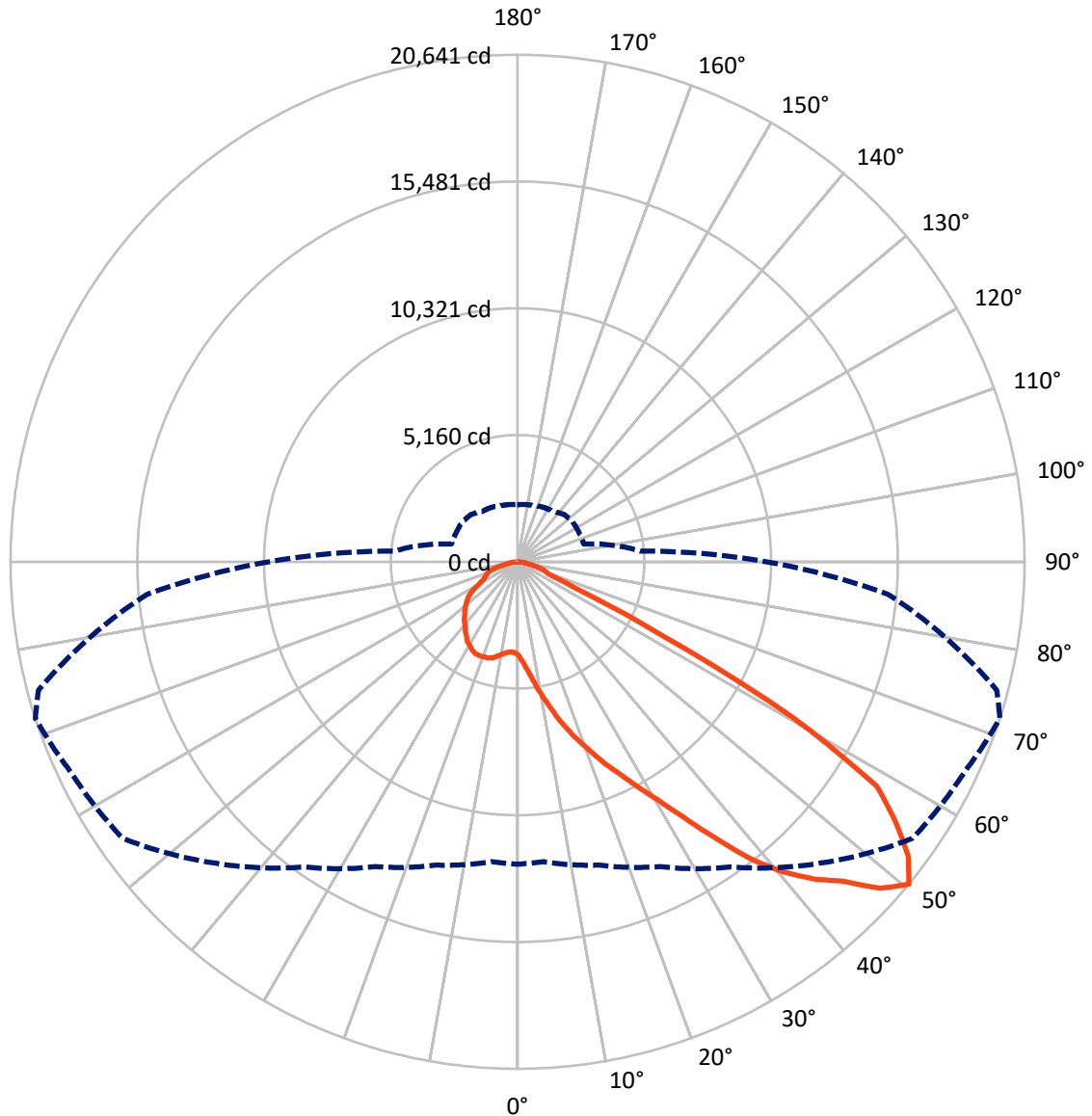
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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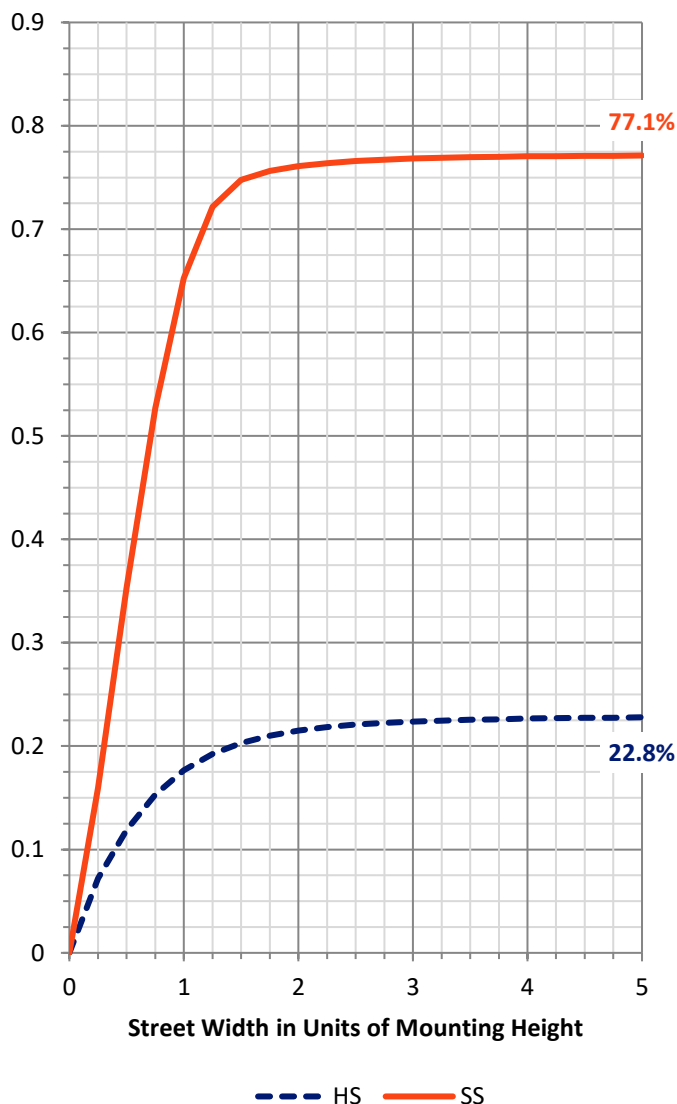
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6247.6	0.0	6247.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	21021.9	0.0	21021.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	27269.6	0.0	27269.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.5	1.6
10°-20°	1669.3	6.1
20°-30°	3236.6	11.9
30°-40°	5361.9	19.7
40°-50°	7502.4	27.5
50°-60°	6329.3	23.2
60°-70°	1929.2	7.1
70°-80°	676.8	2.5
80°-90°	117.7	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°	27269.6	100.0
0°-180°	27269.6	100.0

**Coefficient of Utilization**

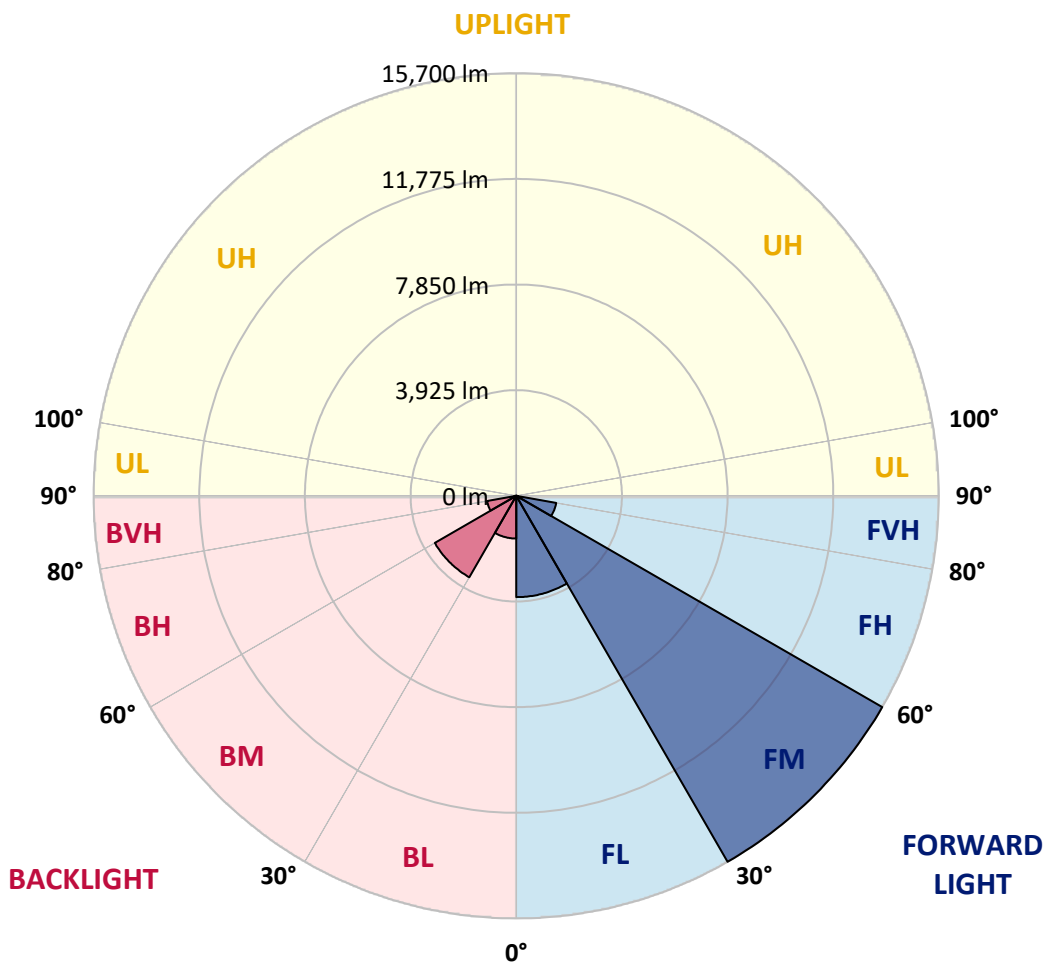


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3764.2	13.8			
FM (30°-60°)	15699.8	57.6			
FH (60°-80°)	1505.2	5.5			G1/1800
FVH (80°-90°)	52.7	0.2			G1/100
BL (0°-30°)	1588.2	5.8	B3/2500		
BM (30°-60°)	3493.8	12.8	B3/5000		
BH (60°-80°)	1100.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	65.0	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1
2.5°	4882.7	4852.3	4761.2	4730.9	4622.8	4427.2	4359.7	4160.5	4076.2	3998.6	3907.5
5°	6175.1	6033.3	6023.2	5851.1	5601.4	5456.3	5024.4	4734.3	4467.6	4332.7	4083.0
7.5°	6998.5	7001.8	7001.8	6860.1	6661.0	6293.2	5905.2	5382.1	4980.6	4781.5	4356.3
10°	7781.3	7713.8	7676.7	7663.1	7528.2	7170.5	6755.5	6107.6	5557.6	5324.7	4562.1
12.5°	8334.6	8277.3	8361.7	8317.8	8219.9	7987.1	7595.6	6856.7	6168.3	5854.5	4892.8
15°	8597.9	8638.4	8705.9	8827.3	8783.5	8695.7	8263.8	7626.0	6826.4	6472.0	5186.4
17.5°	9002.8	8891.4	8972.4	9124.3	9245.7	9205.3	8958.9	8182.8	7477.6	7042.3	5581.2
20°	9286.2	9222.1	9262.6	9438.0	9529.2	9758.6	9630.4	8911.7	8101.9	7642.9	6046.9
22.5°	10096.1	10001.6	9870.0	9897.0	9930.7	10092.7	10123.1	9711.4	8827.3	8341.4	6488.9
25°	11094.9	11007.2	10851.9	10693.4	10595.5	10565.1	10669.7	10339.0	9522.5	9019.7	6964.7
27.5°	12194.9	12046.5	11948.6	11621.3	11358.1	11317.6	11267.0	11088.1	10345.8	9802.5	7501.2
30°	13264.6	13146.5	13014.9	12491.9	12218.6	12174.7	11925.0	11975.6	11240.0	10636.0	8108.6
32.5°	14074.4	14084.6	13784.2	13389.5	13133.0	12900.2	12809.1	12954.2	12387.3	11901.4	8786.8
35°	14729.1	14759.5	14472.7	14114.9	13838.3	14000.2	13959.7	14027.2	13757.2	13163.4	9576.4
37.5°	15366.8	15214.9	14907.9	14735.8	14590.7	14857.3	15201.5	15258.9	15309.5	14610.9	10494.2
40°	15471.5	15484.9	15306.1	15427.5	15245.3	15646.9	16446.6	16372.4	16578.2	15967.5	11489.7
42.5°	15323.0	15353.3	15424.2	15596.3	16035.0	16517.5	17705.3	17401.5	17651.2	17108.0	12458.2
45°	15080.0	14955.1	15042.9	15697.5	16456.8	17529.8	18855.9	18619.7	18538.7	18083.2	13612.1
47.5°	13919.2	14047.5	14320.8	15127.2	16267.8	17705.3	19672.5	19618.5	19861.5	19540.9	14661.6
50°	12309.6	12259.0	12785.5	13693.2	15164.4	17361.1	19628.6	20117.9	20641.0	20195.5	15130.6
52.5°	9218.7	9488.7	9940.9	11067.9	13166.8	15484.9	18670.3	19486.9	19912.1	19817.6	14752.7
55°	5827.5	5908.5	6181.8	7521.4	9411.1	12427.8	16004.6	17897.6	18656.9	19011.2	14405.2
57.5°	2831.1	2679.3	3013.3	4089.7	5436.1	8358.3	12343.4	15589.5	17239.6	17880.7	13649.3
60°	1478.0	1535.3	1666.9	2051.6	2810.8	4339.4	7693.5	10389.6	12910.3	13895.6	10345.8
62.5°	1224.9	1245.1	1332.9	1525.2	1869.4	2497.0	3927.8	5064.9	6583.4	7470.8	5884.9
65°	1039.3	1049.5	1143.9	1272.1	1491.5	1758.1	2021.2	2115.7	2561.1	2628.6	2092.1
67.5°	867.2	877.4	978.6	1100.0	1241.8	1312.6	1380.1	1373.4	1424.0	1403.8	1400.4
70°	668.1	678.2	782.8	911.1	982.0	941.5	1150.6	1197.9	1218.1	1235.0	1262.0
72.5°	482.6	502.8	583.7	674.9	637.8	732.3	948.2	1019.1	1046.1	1056.2	1089.9
75°	350.9	357.7	378.0	350.9	404.9	509.5	668.1	755.8	789.6	799.8	850.3
77.5°	155.2	158.6	162.0	202.5	259.8	317.2	398.2	469.0	516.3	529.8	543.2
80°	81.0	84.3	104.6	138.4	185.6	232.9	290.2	330.7	361.0	364.4	378.0
82.5°	50.6	54.0	74.2	97.9	131.6	172.1	212.6	246.3	270.0	273.3	276.7
85°	23.6	30.4	43.8	60.8	87.7	111.3	114.7	97.9	104.6	108.0	101.2
87.5°	6.7	10.1	13.5	10.1	13.5	13.5	16.8	20.3	20.3	20.3	23.6
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°	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1	3796.1
2.5°	3856.9	3826.5	3708.4	3664.5	3549.8	3570.1	3509.3	3506.0	3492.5	3489.0	3485.7
5°	3951.4	3856.9	3715.2	3607.2	3543.1	3536.3	3492.5	3492.5	3506.0	3516.1	3492.5
7.5°	4106.6	3998.6	3759.0	3657.8	3600.5	3590.3	3559.9	3536.3	3566.7	3556.5	3529.6
10°	4285.4	4096.5	3843.4	3755.7	3661.2	3637.6	3637.6	3647.7	3597.1	3613.9	3586.9
12.5°	4484.6	4231.4	3951.4	3850.2	3738.8	3725.3	3718.5	3644.3	3671.3	3657.8	3590.3
15°	4737.6	4386.7	4089.7	3917.7	3823.2	3762.4	3674.7	3661.2	3644.3	3610.6	3580.2
17.5°	5010.9	4555.4	4153.8	3937.9	3796.1	3752.3	3684.8	3613.9	3563.4	3570.1	3546.4
20°	5243.8	4710.6	4177.5	3958.1	3775.9	3691.5	3586.9	3543.1	3489.0	3485.7	3482.3
22.5°	5520.5	4919.8	4211.2	3904.1	3715.2	3627.4	3556.5	3478.9	3441.8	3394.6	3418.2
25°	5851.1	5000.8	4217.9	3873.7	3671.3	3516.1	3478.9	3394.6	3381.1	3313.7	3327.1
27.5°	6090.7	5044.6	4164.0	3779.3	3570.1	3451.9	3384.5	3323.8	3300.1	3249.5	3236.0
30°	6411.3	5112.1	4049.2	3661.2	3468.8	3337.2	3296.7	3283.3	3215.8	3161.8	3155.0
32.5°	6775.7	5156.1	3975.0	3539.7	3364.2	3263.0	3283.3	3219.1	3134.7	3087.5	3074.1
35°	7065.9	5172.9	3789.4	3401.4	3293.4	3229.2	3205.6	3192.1	3070.7	3026.8	2993.0
37.5°	7508.0	5135.8	3634.2	3303.5	3215.8	3192.1	3171.9	3080.8	2942.4	2878.3	2831.1
40°	8024.2	5125.7	3435.1	3165.1	3141.6	3168.5	3107.8	2966.1	2773.7	2702.8	2669.1
42.5°	8520.3	5196.5	3310.2	3090.9	3060.5	3070.7	2986.3	2773.7	2679.3	2638.7	2584.8
45°	9350.4	5345.0	3104.4	2976.2	2962.7	2955.9	2854.7	2632.0	2578.0	2527.4	2517.3
47.5°	10099.4	5247.1	2972.8	2858.1	2871.6	2834.5	2618.5	2547.6	2486.9	2436.3	2419.4
50°	10143.3	5014.3	2787.2	2767.0	2770.3	2706.2	2500.4	2453.1	2375.5	2341.8	2318.1
52.5°	9913.9	4633.0	2615.1	2621.9	2632.0	2527.4	2355.3	2321.6	2257.5	2210.2	2196.7
55°	9269.4	4039.1	2446.4	2473.4	2500.4	2301.3	2247.3	2163.0	2112.4	2044.9	2048.2
57.5°	8166.0	3252.9	2210.2	2254.1	2311.4	2092.1	2051.6	1947.0	1872.8	1818.8	1812.0
60°	5473.2	2314.8	1855.9	1872.8	2001.0	1913.3	1909.9	1805.3	1704.0	1656.8	1629.8
62.5°	3229.2	1768.2	1602.8	1586.0	1582.6	1633.2	1717.5	1680.4	1548.9	1457.7	1484.7
65°	1690.6	1528.6	1491.5	1434.1	1400.4	1386.8	1451.0	1467.8	1380.1	1282.2	1275.5
67.5°	1420.6	1420.6	1390.2	1370.0	1322.7	1265.4	1224.9	1170.9	1157.4	1130.4	1096.7
70°	1292.3	1326.1	1316.0	1268.8	1228.3	1164.2	1059.6	971.8	887.5	857.1	877.4
72.5°	1127.1	1160.8	1160.8	1137.2	1083.2	985.3	884.1	782.8	712.0	658.0	651.2
75°	867.2	884.1	924.6	897.6	826.7	766.0	661.4	556.8	489.3	438.6	428.5
77.5°	553.4	580.4	580.4	577.0	526.4	469.0	401.5	327.3	276.7	239.6	229.4
80°	367.8	384.7	398.2	384.7	350.9	307.1	256.4	205.9	168.7	138.4	131.6
82.5°	270.0	290.2	300.3	286.8	253.1	219.3	182.2	145.1	108.0	84.3	77.6
85°	104.6	108.0	121.4	145.1	141.7	138.4	111.3	81.0	60.8	43.8	40.5
87.5°	27.0	23.6	27.0	27.0	23.6	20.3	20.3	20.3	20.3	10.1	13.5
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)