

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: P528452

Luminaire Tested: **GALN-SA3C-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528452  
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-SA3C-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA 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: 16669 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

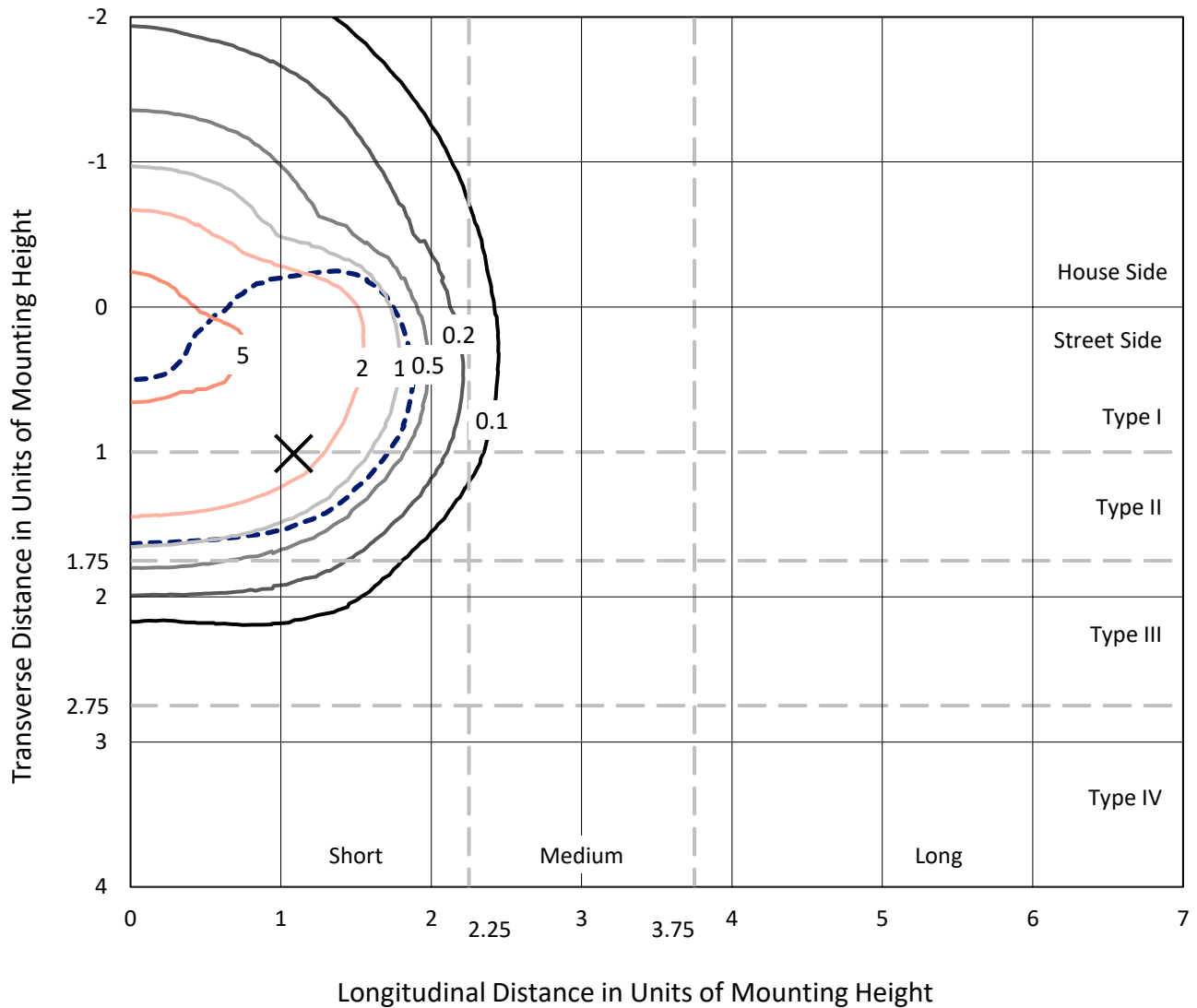
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528452  
 CATALOG NUMBER: GALN-SA3C-735-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

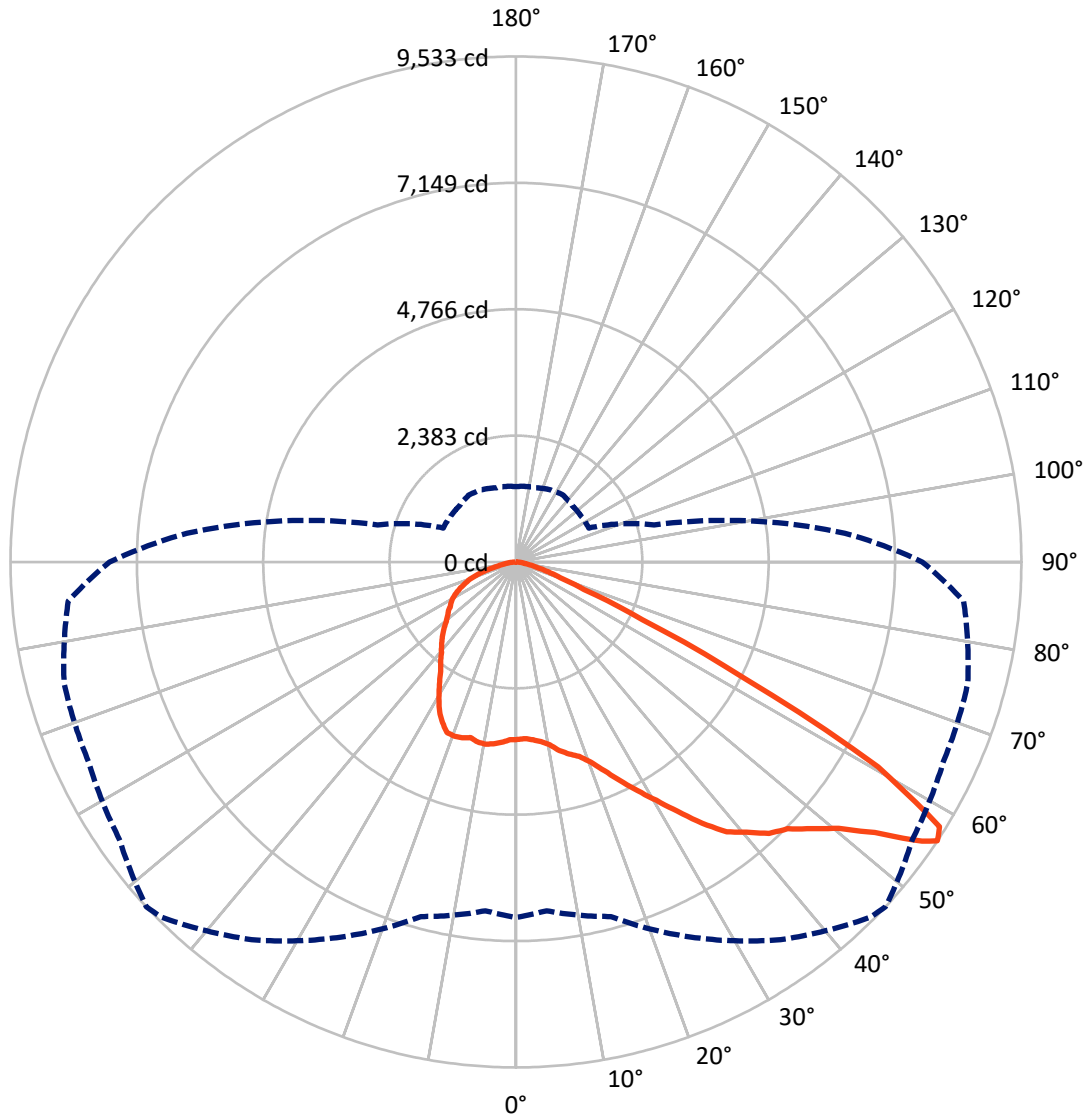
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P528452  
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### Luminous Intensity Polar Plot



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

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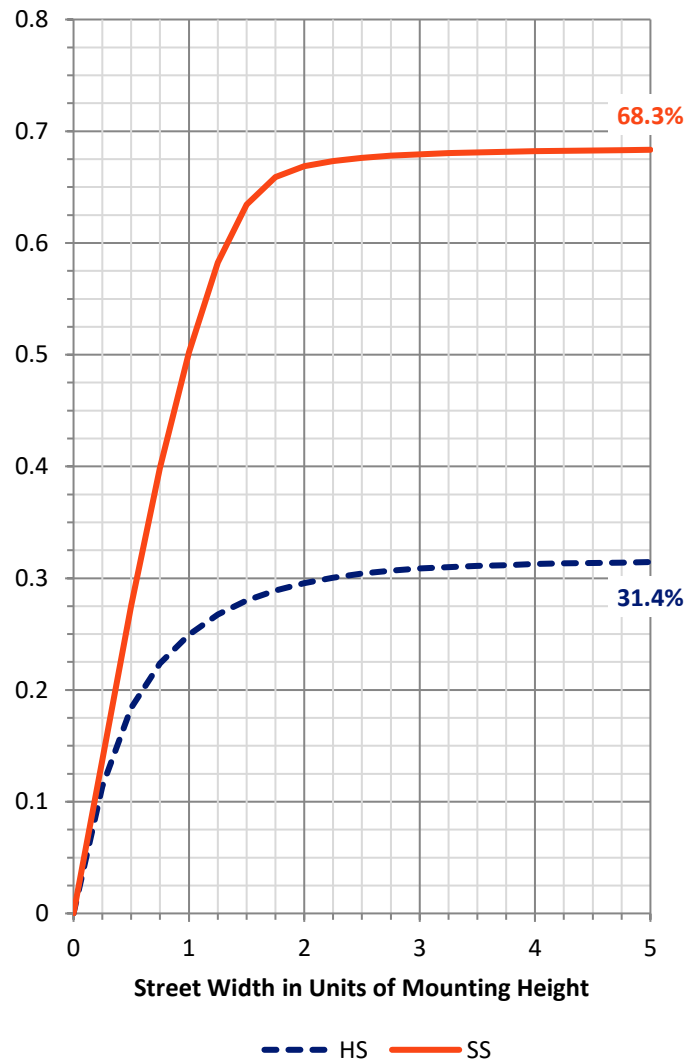
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5282.2	0.0	5282.2
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	11386.8	0.0	11386.8
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	16669.0	0.0	16669.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.3	2.0
10°-20°	1029.1	6.2
20°-30°	1819.3	10.9
30°-40°	2732.5	16.4
40°-50°	3750.1	22.5
50°-60°	4467.7	26.8
60°-70°	1911.9	11.5
70°-80°	541.1	3.2
80°-90°	91.1	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°	16669.0	100.0
0°-180°	16669.0	100.0



REPORT NUMBER: P528452

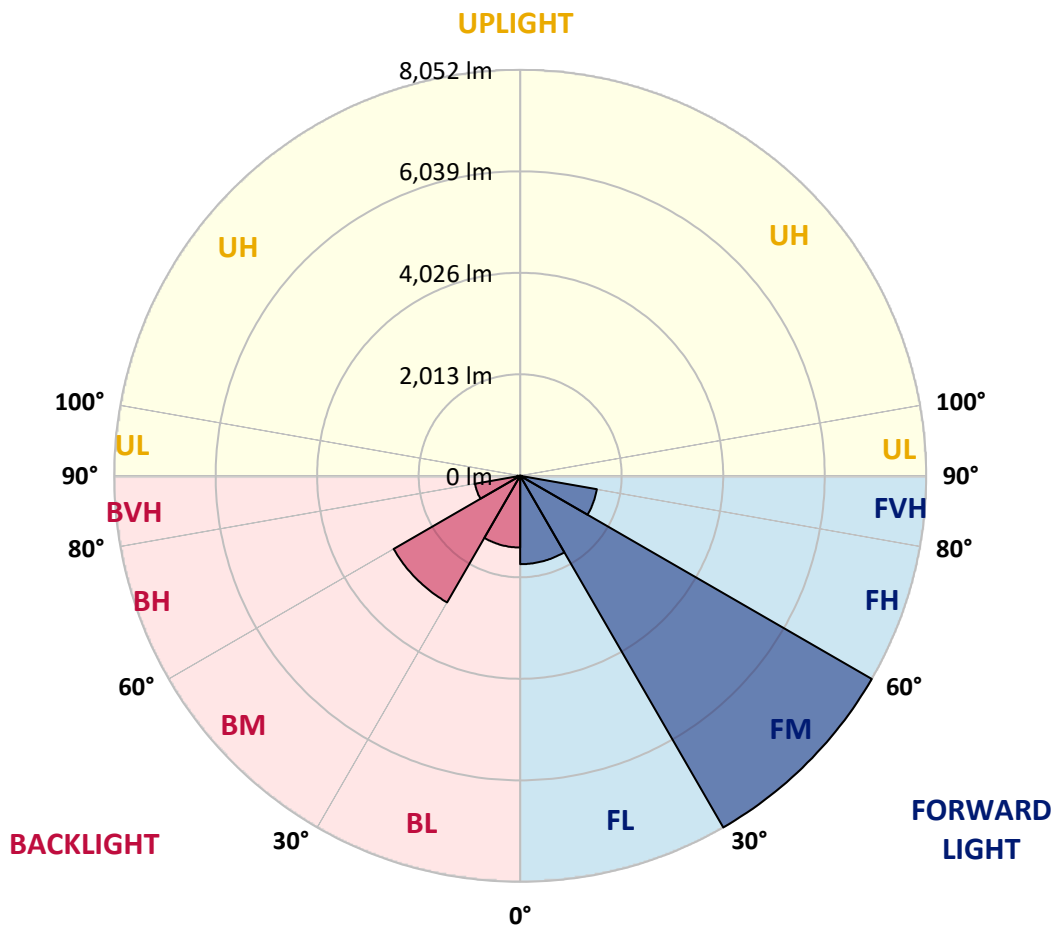
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.5	10.5			
FM (30°-60°)	8051.5	48.3			
FH (60°-80°)	1544.2	9.3			G1/1800
FVH (80°-90°)	38.6	0.2			G1/100
BL (0°-30°)	1422.2	8.5	B3/2500		
BM (30°-60°)	2898.8	17.4	B3/5000		
BH (60°-80°)	908.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	52.4	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-G2**

Type II Short





REPORT NUMBER: P528452

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3
2.5°	3335.5	3329.2	3324.9	3358.9	3346.2	3348.3	3335.5	3348.3	3356.8	3337.7	3365.3
5°	3329.2	3348.3	3331.3	3341.9	3369.6	3361.1	3369.6	3395.1	3388.7	3382.3	3373.8
7.5°	3388.7	3390.8	3403.6	3407.8	3416.3	3407.8	3420.6	3444.0	3437.6	3401.4	3405.7
10°	3473.7	3478.0	3480.1	3503.5	3518.4	3520.5	3505.6	3484.4	3482.2	3531.1	3497.1
12.5°	3571.5	3560.9	3586.4	3594.9	3611.9	3631.0	3650.2	3605.5	3633.2	3635.3	3594.9
15°	3714.0	3724.6	3694.8	3694.8	3701.2	3703.3	3756.5	3735.2	3731.0	3707.6	3724.6
17.5°	3926.5	3854.3	3852.1	3822.4	3818.1	3835.1	3854.3	3871.3	3928.7	3881.9	3790.5
20°	4081.7	4098.7	4037.1	4000.9	4007.3	4045.6	4026.5	4103.0	4143.4	4066.9	3977.6
22.5°	4356.0	4298.6	4313.5	4232.7	4239.0	4279.4	4277.3	4356.0	4379.4	4258.2	4128.5
25°	4540.9	4526.0	4538.8	4475.0	4483.5	4515.4	4566.4	4696.1	4657.9	4523.9	4224.2
27.5°	4810.9	4781.2	4770.5	4747.1	4738.6	4823.7	4883.2	5021.4	4993.7	4798.2	4394.2
30°	5087.3	5068.2	5078.8	4983.1	5017.1	5197.8	5214.8	5404.0	5391.3	5046.9	4583.4
32.5°	5278.6	5289.2	5308.4	5255.2	5406.2	5550.7	5608.1	5822.8	5833.5	5474.2	4949.1
35°	5586.9	5550.7	5561.4	5623.0	5693.2	5956.8	6050.3	6192.8	6282.0	5922.8	5299.9
37.5°	5780.3	5818.6	5773.9	5871.7	6054.6	6371.3	6456.4	6603.1	6696.6	6365.0	5778.2
40°	6082.2	6020.6	6052.4	6122.6	6309.7	6722.1	6698.7	6849.7	6879.4	6741.2	6224.6
42.5°	6407.5	6377.7	6333.1	6492.5	6649.8	6949.6	6996.3	6926.2	7077.1	7109.0	6862.4
45°	6796.5	6832.6	6839.0	6843.3	6981.5	7242.9	7179.2	7117.5	7291.8	7523.6	7257.8
47.5°	7157.9	7043.1	7126.0	7240.8	7436.4	7438.5	7512.9	7366.3	7551.2	7757.4	7615.0
50°	7279.1	7223.8	7334.4	7551.2	7853.1	7885.0	7893.5	7685.1	7780.8	7944.5	7738.3
52.5°	7232.3	7213.2	7495.9	7831.8	8274.0	8435.6	8478.1	8220.9	8274.0	8199.6	8010.4
55°	7009.1	7066.5	7351.4	8035.9	8714.1	9213.7	9294.4	8969.2	8631.2	8688.6	8480.2
56°	6703.0	6603.1	6921.9	7804.2	8694.9	9466.6	9532.5	9126.5	8896.9	8822.5	8476.0
57.5°	5686.8	5557.1	5975.9	7021.9	8212.4	9371.0	9419.9	9192.4	8852.3	8701.3	7857.3
60°	3329.2	3392.9	3924.4	4842.8	6335.2	7683.0	7846.7	8012.5	7785.1	7109.0	5848.4
62.5°	1607.2	1566.8	1947.3	2776.4	3860.6	4904.5	4855.6	5321.1	5576.2	5051.1	3692.7
65°	841.9	837.6	1063.0	1515.8	2121.7	2576.6	2621.2	2872.1	3222.9	2602.1	1875.0
67.5°	618.6	635.6	748.3	1065.1	1364.8	1392.5	1386.1	1511.5	1545.5	1307.4	1152.2
70°	484.7	493.2	576.1	810.0	1016.2	909.9	890.8	905.6	1005.6	1048.1	997.0
72.5°	350.8	359.3	429.4	546.4	635.6	620.8	633.5	716.4	839.7	884.4	831.2
75°	233.8	240.2	278.5	333.8	376.3	406.0	429.4	525.1	639.9	665.4	639.9
77.5°	161.6	167.9	193.5	236.0	240.2	259.4	267.9	312.5	382.7	414.6	397.5
80°	91.4	91.4	104.2	121.2	148.8	174.3	178.6	214.7	246.6	267.9	272.1
82.5°	42.5	44.6	55.3	74.4	97.8	121.2	125.4	148.8	172.2	193.5	199.8
85°	21.3	23.4	31.9	44.6	59.5	72.3	70.2	72.3	76.5	72.3	74.4
87.5°	6.4	6.4	8.5	10.6	8.5	10.6	10.6	12.8	14.9	17.0	19.1
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: P528452

CATALOG NUMBER: GALN-SA3C-735-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3	3348.3
2.5°	3367.4	3373.8	3331.3	3371.7	3356.8	3354.7	3384.4	3380.2	3390.8	3386.6	3361.1
5°	3369.6	3354.7	3399.3	3358.9	3378.1	3418.5	3390.8	3454.6	3422.7	3444.0	3397.2
7.5°	3435.5	3439.7	3431.2	3448.2	3439.7	3458.8	3444.0	3458.8	3433.3	3435.5	3478.0
10°	3492.9	3480.1	3495.0	3473.7	3488.6	3482.2	3448.2	3437.6	3446.1	3435.5	3463.1
12.5°	3599.2	3575.8	3565.1	3539.6	3522.6	3458.8	3405.7	3375.9	3416.3	3422.7	3409.9
15°	3707.6	3709.7	3660.8	3603.4	3497.1	3401.4	3414.2	3424.8	3424.8	3441.8	3409.9
17.5°	3775.6	3775.6	3731.0	3616.2	3507.7	3452.5	3439.7	3405.7	3375.9	3371.7	3369.6
20°	3894.7	3858.5	3756.5	3614.0	3503.5	3478.0	3382.3	3301.5	3239.9	3218.6	3216.5
22.5°	4030.7	3939.3	3796.9	3618.3	3497.1	3461.0	3282.4	3161.2	3050.7	3003.9	3010.3
25°	4156.1	4009.5	3820.2	3599.2	3473.7	3299.4	3099.6	2931.6	2816.8	2778.6	2759.4
27.5°	4243.3	4083.9	3820.2	3616.2	3386.6	3118.7	2914.6	2699.9	2600.0	2574.5	2578.7
30°	4360.2	4177.4	3886.1	3580.0	3212.2	2884.8	2640.4	2500.1	2440.5	2419.3	2434.2
32.5°	4634.5	4421.9	3977.6	3492.9	3006.0	2651.0	2453.3	2374.6	2287.5	2245.0	2230.1
35°	4932.1	4653.6	4066.9	3346.2	2774.3	2438.4	2315.1	2242.8	2138.7	2091.9	2100.4
37.5°	5353.0	4951.2	4073.2	3103.8	2523.4	2319.4	2206.7	2094.0	2009.0	1936.7	1915.4
40°	5920.6	5357.3	4058.3	2848.7	2321.5	2179.0	2096.1	1955.8	1860.2	1809.1	1819.8
42.5°	6420.2	5833.5	3996.7	2559.6	2138.7	2083.4	1989.8	1851.7	1758.1	1705.0	1700.7
45°	6841.2	6184.2	3879.8	2313.0	1985.6	1977.1	1868.7	1762.4	1688.0	1639.1	1660.3
47.5°	7230.2	6467.0	3703.3	2066.4	1845.3	1862.3	1758.1	1692.2	1645.4	1600.8	1598.7
50°	7370.5	6462.7	3548.1	1862.3	1732.6	1724.1	1719.9	1649.7	1600.8	1562.5	1579.5
52.5°	7604.4	6535.0	3380.2	1722.0	1630.6	1632.7	1647.6	1596.6	1541.3	1517.9	1539.2
55°	7940.2	6545.7	3010.3	1558.3	1545.5	1560.4	1560.4	1526.4	1479.6	1460.5	1449.9
56°	7666.0	6228.9	2699.9	1515.8	1503.0	1503.0	1543.4	1505.1	1447.7	1432.9	1420.1
57.5°	7070.8	5457.2	2259.8	1464.7	1445.6	1475.4	1496.6	1456.2	1403.1	1381.8	1394.6
60°	4876.8	3692.7	1698.6	1354.2	1354.2	1403.1	1420.1	1360.6	1337.2	1335.1	1318.1
62.5°	2846.6	2151.4	1328.7	1254.3	1258.5	1298.9	1311.7	1277.7	1247.9	1284.0	1301.1
65°	1509.4	1284.0	1139.5	1148.0	1150.1	1182.0	1237.3	1235.1	1233.0	1243.7	1245.8
67.5°	1092.7	1067.2	1035.3	1026.8	1031.1	1054.4	1109.7	1152.2	1150.1	1124.6	1105.5
70°	973.7	937.5	918.4	920.5	903.5	931.1	975.8	1003.4	954.5	924.8	912.0
72.5°	810.0	799.3	786.6	788.7	754.7	748.3	697.3	697.3	684.5	676.0	690.9
75°	618.6	614.4	620.8	610.1	574.0	535.7	506.0	478.3	435.8	418.8	410.3
77.5°	391.2	403.9	418.8	395.4	380.5	352.9	323.1	295.5	261.5	242.4	242.4
80°	265.7	276.4	287.0	282.7	265.7	240.2	216.8	187.1	163.7	148.8	146.7
82.5°	202.0	210.5	225.3	208.3	191.3	170.1	150.9	129.7	108.4	91.4	91.4
85°	72.3	82.9	91.4	99.9	106.3	108.4	93.5	76.5	61.7	48.9	46.8
87.5°	19.1	21.3	23.4	21.3	21.3	21.3	23.4	21.3	19.1	14.9	14.9
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)