

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: P530788

Luminaire Tested: **GALN-SA6A-735-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530788  
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-SA6A-735-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 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: 21190 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

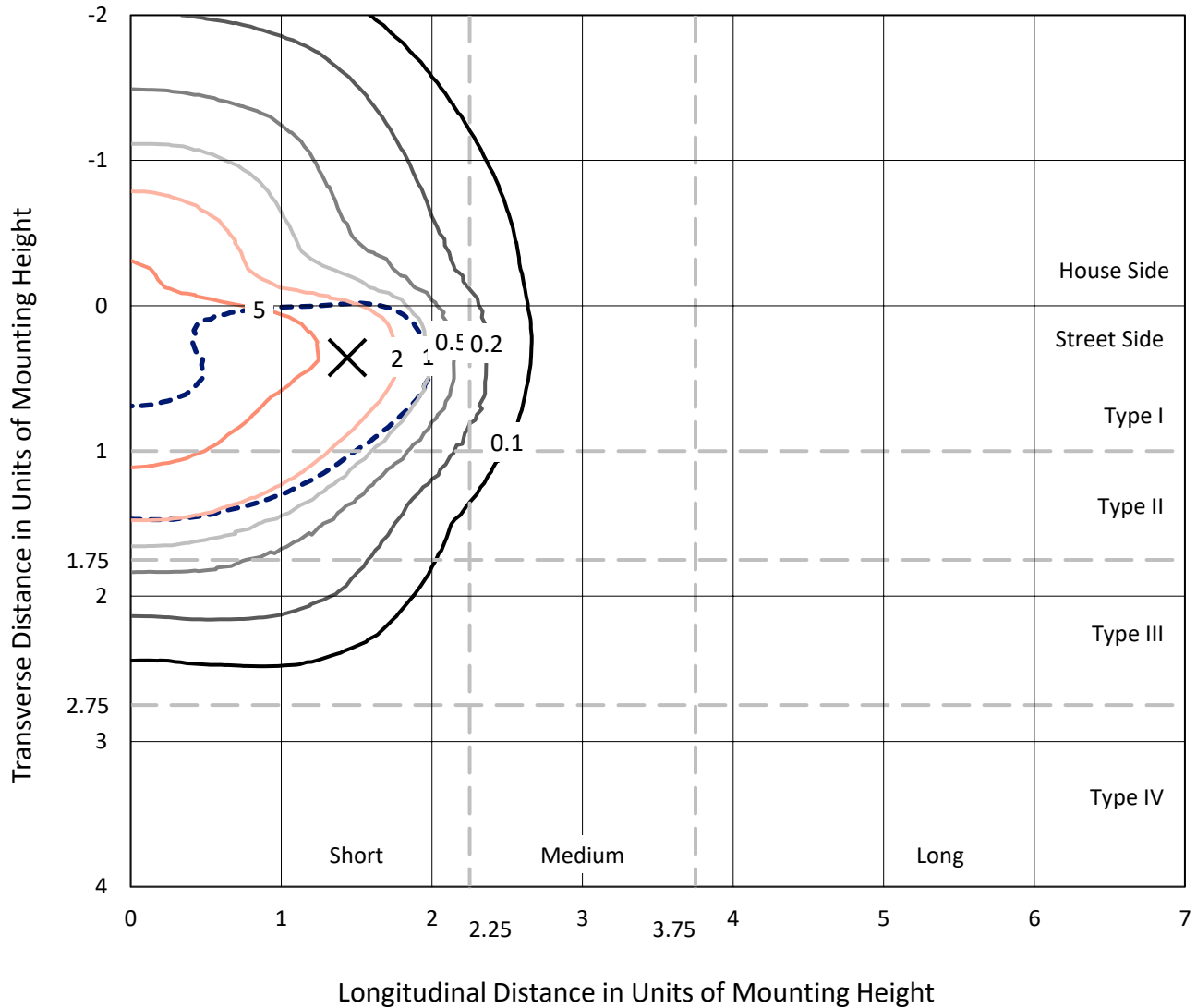
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

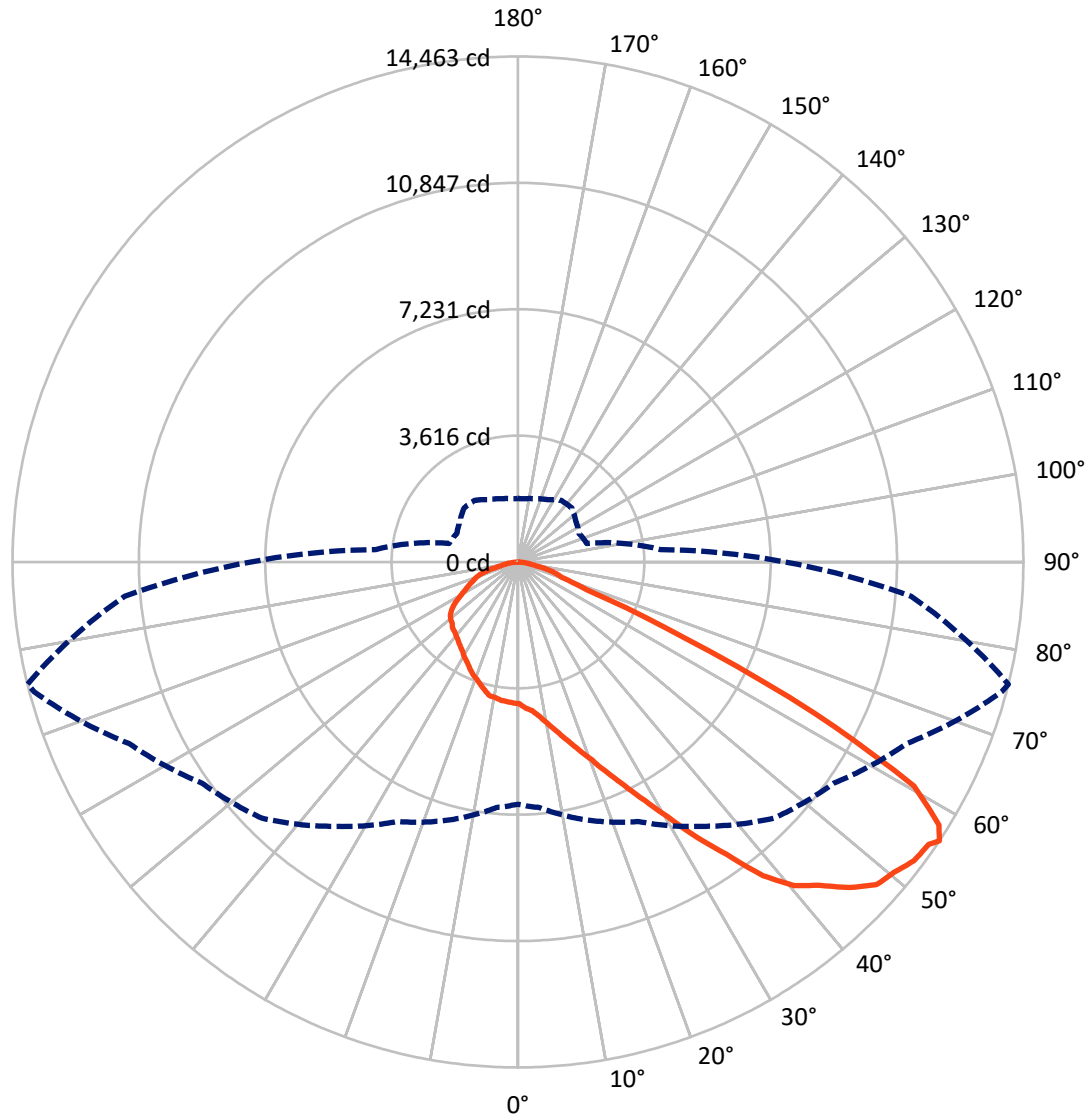
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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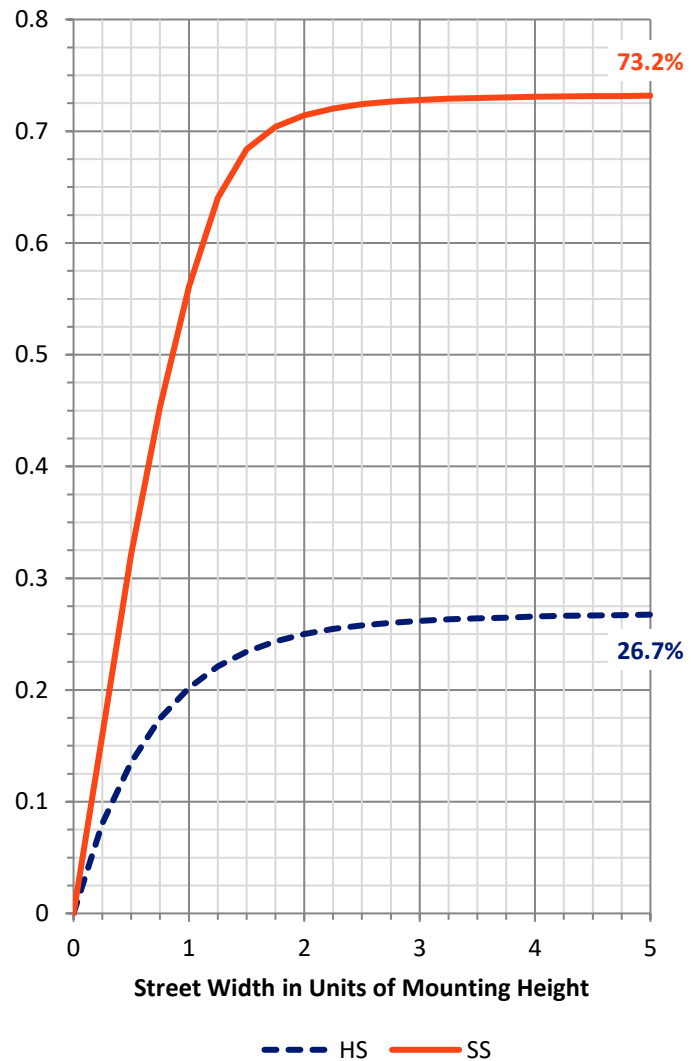
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5697.4	0.0	5697.4
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	15492.6	0.0	15492.6
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	21190.0	0.0	21190.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.1	1.9
10°-20°	1263.0	6.0
20°-30°	2208.9	10.4
30°-40°	3458.5	16.3
40°-50°	5031.2	23.7
50°-60°	5529.6	26.1
60°-70°	2468.2	11.6
70°-80°	712.9	3.4
80°-90°	115.6	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°	21190.0	100.0
0°-180°	21190.0	100.0



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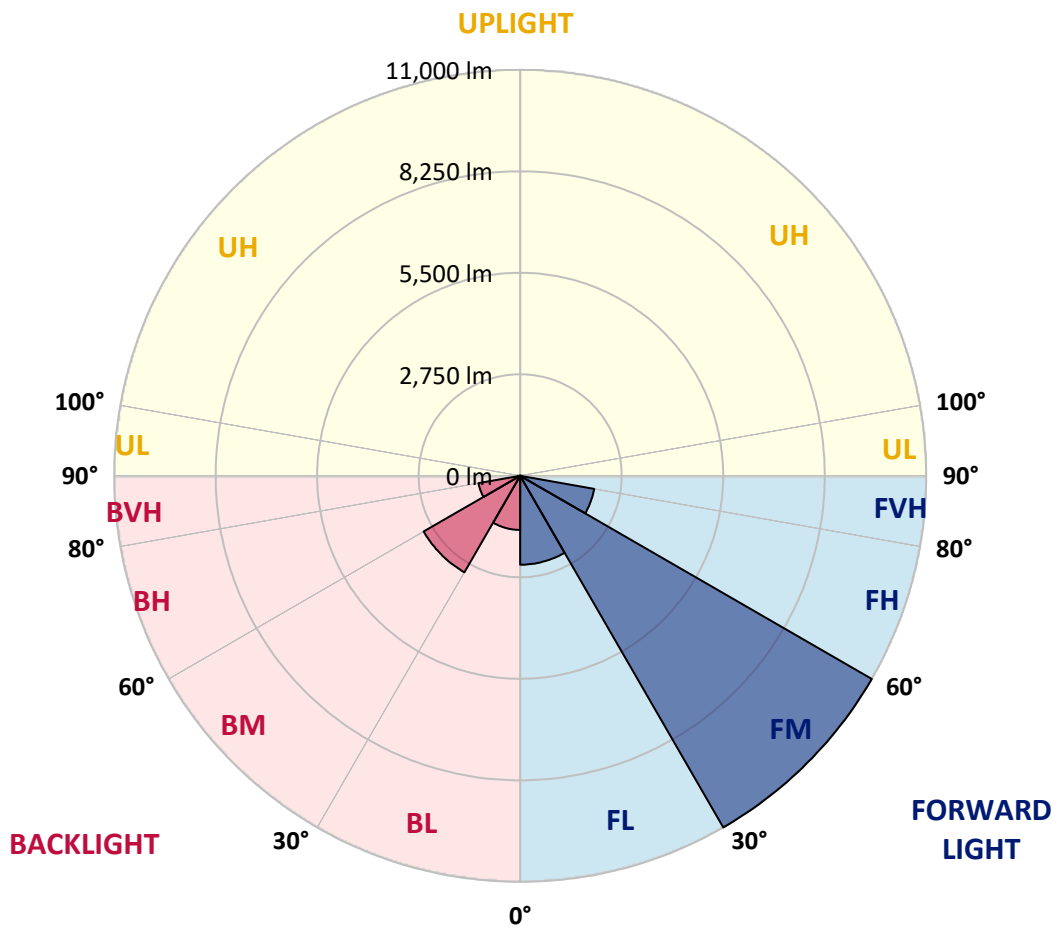
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.0	11.4			
FM (30°-60°)	11000.1	51.9			
FH (60°-80°)	2034.7	9.6			G2/5000
FVH (80°-90°)	49.8	0.2			G1/100
BL (0°-30°)	1466.0	6.9	B3/2500		
BM (30°-60°)	3019.1	14.2	B3/5000		
BH (60°-80°)	1146.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	65.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4
2.5°	4466.5	4395.1	4389.6	4370.3	4381.3	4331.9	4279.7	4211.0	4139.6	4183.5	4079.2
5°	4779.6	4683.5	4721.9	4656.0	4664.2	4598.3	4491.2	4411.5	4323.6	4271.4	4197.3
7.5°	4889.5	4897.7	4925.2	4914.2	4859.3	4859.3	4787.9	4647.8	4493.9	4463.7	4340.1
10°	5037.8	5040.6	5010.4	5018.6	5095.5	5059.8	4996.6	4936.2	4738.4	4702.7	4483.0
12.5°	5090.0	5040.6	5090.0	5134.0	5224.6	5274.1	5260.3	5216.4	5004.9	4980.1	4658.8
15°	5098.3	5068.0	5109.2	5208.1	5287.8	5496.6	5600.9	5570.7	5290.5	5293.3	4856.5
17.5°	5059.8	5101.0	5117.5	5202.6	5386.7	5581.7	5883.9	5925.1	5694.3	5658.6	5106.5
20°	5112.0	5081.8	5103.8	5180.7	5425.1	5730.0	6125.6	6397.5	6073.4	6048.7	5364.7
22.5°	5312.5	5271.3	5265.8	5315.3	5491.1	5807.0	6381.1	6870.0	6534.9	6548.6	5686.1
25°	5469.1	5491.1	5471.8	5469.1	5579.0	5922.3	6718.9	7433.1	7161.2	7081.5	6065.2
27.5°	5738.3	5790.5	5752.0	5804.2	5779.5	6095.4	6960.7	8056.7	7836.9	7729.8	6408.5
30°	6111.9	6139.3	6103.6	6103.6	6029.5	6337.1	7180.4	8707.7	8617.0	8471.5	6812.3
32.5°	6603.6	6644.8	6573.3	6532.1	6521.2	6697.0	7576.0	9350.5	9504.3	9380.7	7348.0
35°	7254.6	7229.9	7144.7	7106.2	6957.9	7249.1	8163.8	10089.4	10493.2	10273.4	7996.2
37.5°	7828.7	7790.2	7784.7	7570.5	7606.2	7845.2	8663.7	10649.8	11451.9	11388.7	8680.2
40°	8364.3	8400.0	8457.7	8336.9	8281.9	8545.6	9246.1	11078.3	12196.3	12171.5	9207.6
42.5°	8938.4	8905.5	9007.1	8905.5	8823.1	9196.6	9877.9	11374.9	12850.0	12646.8	9759.8
45°	9770.7	9666.4	9702.1	9710.3	9649.9	9787.2	10138.8	11589.2	13308.8	13286.8	10163.6
47.5°	10465.7	10468.5	10408.0	10361.3	10177.3	10314.6	10430.0	11723.8	13836.2	13800.5	10320.1
50°	10723.9	10688.2	10864.0	10965.7	10976.6	10696.5	10658.0	11798.0	14113.6	13957.0	10476.7
52.5°	9795.5	9828.4	10105.9	10710.2	11059.0	11089.3	10924.4	11951.8	14226.2	14193.3	10603.1
55°	7883.6	8042.9	8498.9	9196.6	10023.5	10932.7	11212.9	12111.1	14286.7	14259.2	11163.4
56°	6930.4	7054.1	7647.4	8194.0	9232.4	10364.1	11031.6	12281.4	14333.4	14462.5	11295.3
57.5°	5579.0	5721.8	6147.6	6768.4	7993.5	9281.8	10531.6	12072.7	14152.1	14201.5	11391.4
60°	3488.6	3502.3	4013.2	4422.5	5285.0	6543.1	8037.4	10504.2	13097.3	13025.8	10232.2
62.5°	2288.2	2290.9	2755.1	3090.3	3483.1	3771.5	4730.2	6966.2	9663.6	9537.3	7284.8
65°	1606.9	1642.7	2002.5	2450.2	2609.6	2458.5	2428.3	3672.6	5397.7	5216.4	3914.3
67.5°	1175.7	1178.4	1497.1	1977.8	2208.5	1870.6	1519.0	1793.7	2137.1	2131.6	1813.0
70°	777.4	810.3	1054.8	1477.8	1741.5	1502.6	1241.6	1282.8	1359.7	1359.7	1348.7
72.5°	453.2	483.5	645.5	936.7	977.9	939.4	983.4	1098.8	1148.2	1145.5	1131.7
75°	258.2	271.9	307.7	390.1	486.2	574.1	722.4	832.3	881.8	912.0	876.3
77.5°	151.1	159.3	181.3	222.5	252.7	310.4	392.8	469.7	535.6	527.4	532.9
80°	79.7	79.7	101.6	131.9	175.8	219.8	261.0	304.9	340.6	348.9	357.1
82.5°	46.7	49.4	65.9	96.1	126.4	156.6	200.5	230.7	263.7	266.4	271.9
85°	24.7	27.5	41.2	63.2	85.2	96.1	98.9	93.4	101.6	96.1	109.9
87.5°	8.2	8.2	13.7	11.0	11.0	13.7	16.5	16.5	22.0	22.0	22.0
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°	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4	4054.4
2.5°	4076.4	4076.4	4029.7	3941.8	3928.1	3892.4	3859.4	3856.7	3831.9	3810.0	3799.0
5°	4153.3	4068.2	3999.5	3919.8	3826.4	3782.5	3733.0	3678.1	3656.1	3678.1	3675.4
7.5°	4241.2	4169.8	3963.8	3815.5	3708.3	3664.4	3609.4	3551.8	3557.2	3557.2	3518.8
10°	4326.4	4230.2	3900.6	3711.1	3554.5	3521.5	3491.3	3513.3	3540.8	3546.3	3521.5
12.5°	4469.2	4252.2	3870.4	3606.7	3507.8	3436.4	3455.6	3516.0	3573.7	3557.2	3576.5
15°	4576.3	4271.4	3733.0	3499.6	3375.9	3408.9	3477.6	3518.8	3614.9	3603.9	3623.2
17.5°	4680.7	4282.4	3598.4	3356.7	3304.5	3395.2	3447.4	3565.5	3595.7	3661.6	3686.3
20°	4895.0	4304.4	3461.1	3268.8	3252.3	3356.7	3447.4	3502.3	3568.2	3625.9	3625.9
22.5°	5004.9	4293.4	3370.5	3153.4	3205.6	3271.6	3354.0	3447.4	3447.4	3502.3	3505.1
25°	5142.2	4249.5	3227.6	3098.5	3137.0	3200.1	3293.5	3260.6	3296.3	3296.3	3340.2
27.5°	5298.8	4156.1	3104.0	2999.6	3076.5	3145.2	3158.9	3137.0	3095.8	3090.3	3073.8
30°	5425.1	4040.7	3013.4	2966.7	3029.8	3068.3	3024.3	2977.6	2906.2	2900.7	2862.3
32.5°	5598.2	3897.9	2900.7	2884.3	2955.7	2958.4	2944.7	2873.3	2768.9	2724.9	2681.0
35°	5889.4	3815.5	2815.6	2840.3	2862.3	2854.0	2829.3	2752.4	2648.0	2628.8	2612.3
37.5°	6103.6	3755.0	2727.7	2757.9	2777.1	2788.1	2713.9	2628.8	2631.5	2593.1	2582.1
40°	6345.4	3716.6	2656.3	2670.0	2672.7	2708.5	2617.8	2576.6	2595.8	2571.1	2587.6
42.5°	6655.8	3727.6	2582.1	2571.1	2623.3	2609.6	2565.6	2510.7	2521.7	2447.5	2458.5
45°	6820.6	3801.7	2538.1	2488.7	2546.4	2543.6	2486.0	2433.8	2367.8	2225.0	2230.5
47.5°	6930.4	3820.9	2433.8	2400.8	2461.2	2496.9	2431.0	2310.1	2216.8	2115.1	2090.4
50°	7043.1	3856.7	2384.3	2315.6	2340.4	2425.5	2343.1	2227.7	2137.1	2046.4	2060.2
52.5°	7142.0	3925.3	2288.2	2186.5	2230.5	2323.9	2279.9	2139.8	2041.0	1966.8	1944.8
55°	7581.5	4079.2	2126.1	1994.3	2098.6	2216.8	2192.0	2021.7	1914.6	1876.1	1870.6
56°	7650.1	4084.7	2041.0	1928.3	2024.5	2181.0	2150.8	1969.5	1873.4	1813.0	1815.7
57.5°	7661.1	4018.7	1920.1	1867.9	1950.3	2128.9	2090.4	1928.3	1796.5	1741.5	1725.1
60°	6740.9	3137.0	1769.0	1736.0	1832.2	1969.5	1955.8	1815.7	1667.4	1604.2	1634.4
62.5°	4595.6	2299.2	1650.9	1645.4	1694.8	1829.4	1793.7	1667.4	1543.8	1502.6	1483.3
65°	2675.5	1744.3	1535.5	1513.5	1554.7	1626.2	1650.9	1519.0	1389.9	1362.5	1354.2
67.5°	1579.5	1442.1	1387.2	1351.5	1337.7	1381.7	1400.9	1324.0	1194.9	1156.4	1189.4
70°	1321.3	1282.8	1285.6	1225.1	1192.2	1161.9	1145.5	1076.8	969.7	920.2	906.5
72.5°	1140.0	1123.5	1112.5	1057.6	1027.3	958.7	887.3	818.6	738.9	697.7	700.5
75°	870.8	865.3	870.8	843.3	791.1	736.2	670.2	582.3	521.9	469.7	480.7
77.5°	519.2	535.6	543.9	532.9	510.9	461.5	420.3	362.6	304.9	263.7	258.2
80°	357.1	370.8	384.6	370.8	348.9	313.1	269.2	225.2	184.0	162.1	156.6
82.5°	271.9	285.7	293.9	280.2	252.7	214.3	184.0	153.8	120.9	98.9	93.4
85°	98.9	112.6	109.9	131.9	142.8	137.3	118.1	90.6	68.7	49.4	46.7
87.5°	27.5	24.7	27.5	27.5	27.5	24.7	22.0	22.0	22.0	13.7	11.0
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)