

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: P458937

Luminaire Tested: **GALN-SA4C-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26056 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

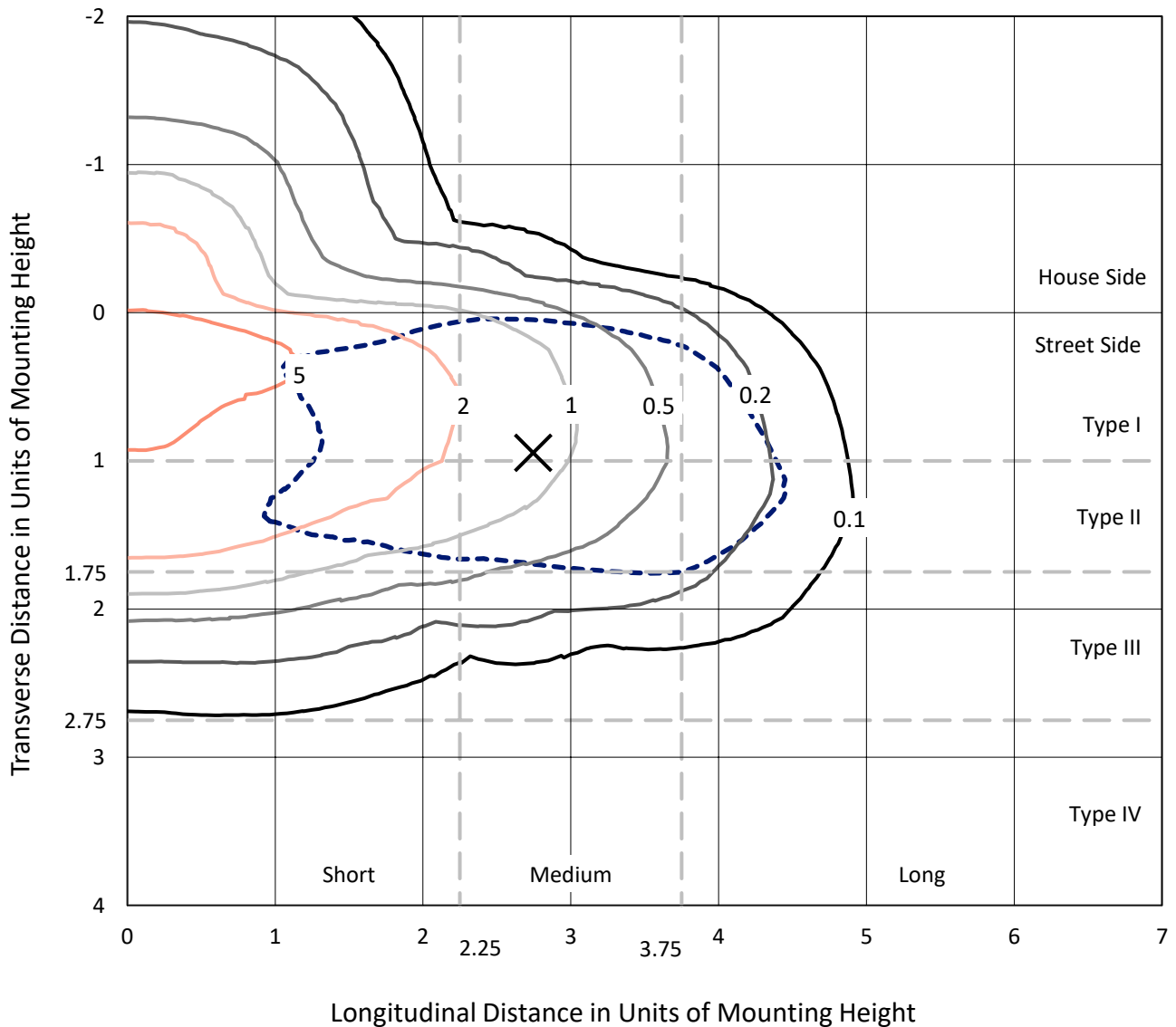
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

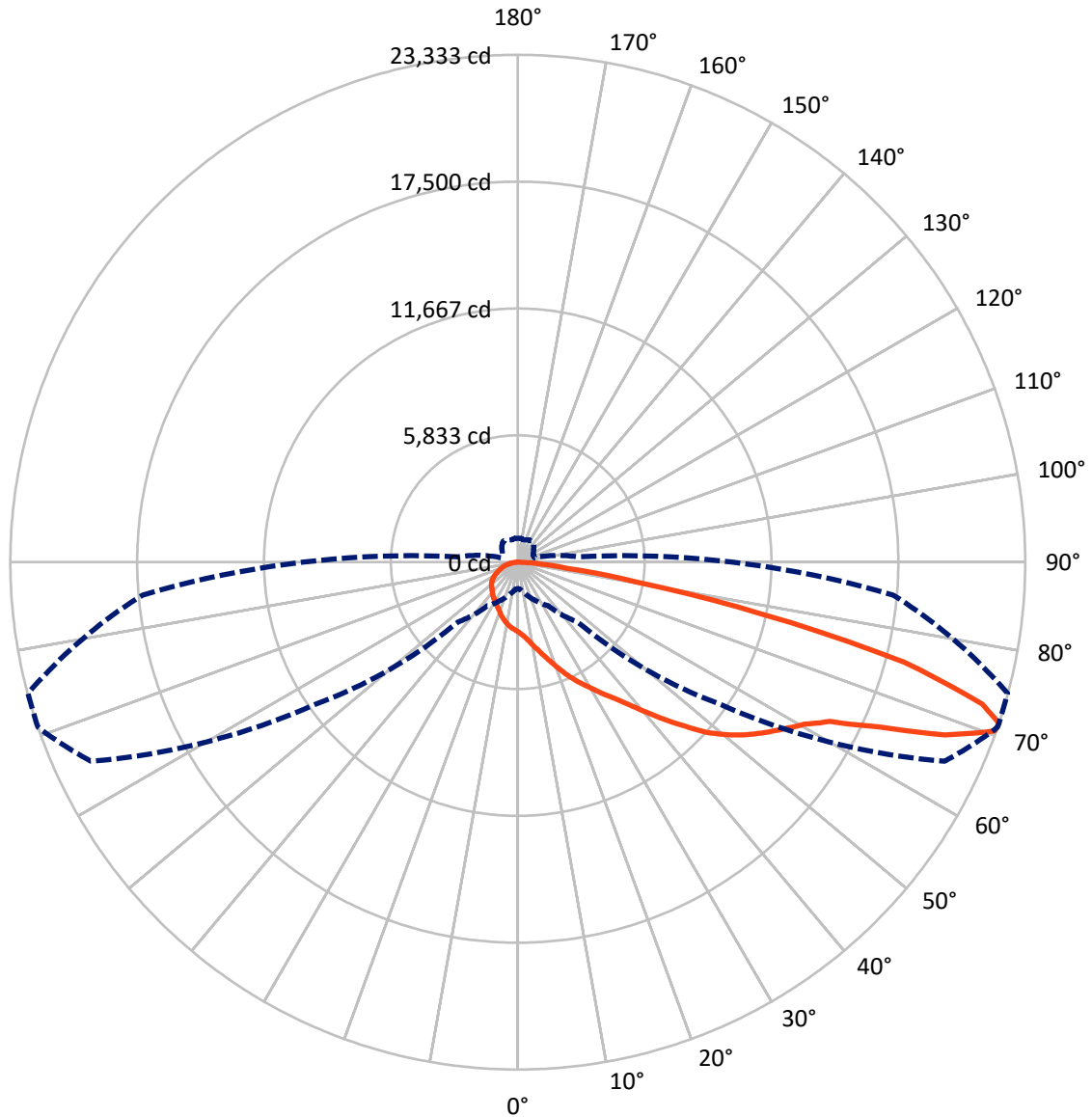
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4686.1	0.0	4686.1
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	21369.9	0.0	21369.9
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	26056.0	0.0	26056.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.1	1.2
10°-20°	1043.2	4.0
20°-30°	1823.1	7.0
30°-40°	2711.6	10.4
40°-50°	3995.1	15.3
50°-60°	5593.2	21.5
60°-70°	6255.8	24.0
70°-80°	3821.3	14.7
80°-90°	491.6	1.9
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°	26056.0	100.0
0°-180°	26056.0	100.0

**Coefficient of Utilization**



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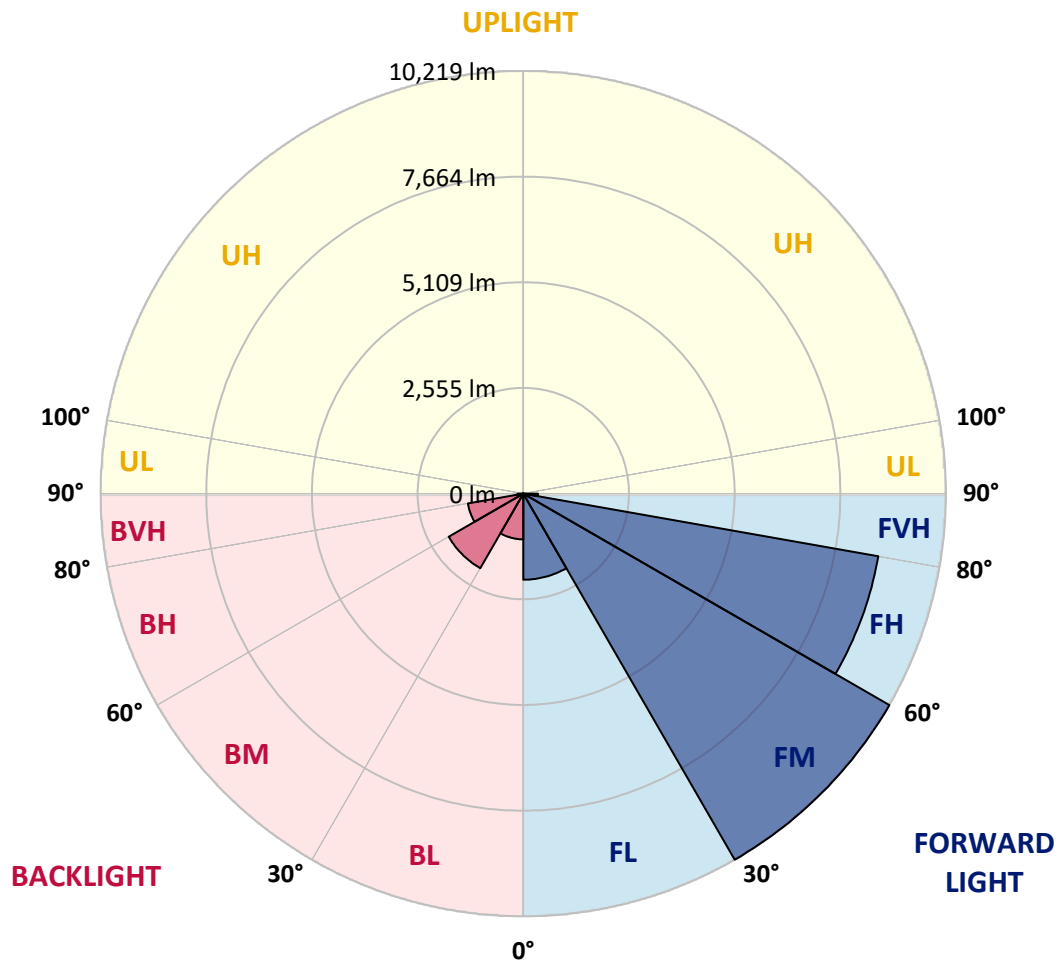
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2081.9	8.0			
FM	(30°-60°)	10218.7	39.2			
FH	(60°-80°)	8715.6	33.4			G4/12000
FVH	(80°-90°)	353.7	1.4			G3/500
BL	(0°-30°)	1105.4	4.2	B3/2500		
BM	(30°-60°)	2081.3	8.0	B2/2500		
BH	(60°-80°)	1361.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	137.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9
2.5°	3550.2	3533.0	3534.4	3510.1	3478.5	3444.2	3395.5	3352.5	3318.2	3298.1	3239.4
5°	3934.0	3916.8	3895.3	3842.3	3819.4	3734.9	3627.5	3530.1	3455.6	3414.1	3296.7
7.5°	4244.7	4240.4	4234.7	4204.6	4145.9	4028.5	3936.8	3767.8	3657.6	3578.8	3378.3
10°	4436.6	4443.8	4448.1	4453.8	4429.5	4367.9	4241.9	4028.5	3888.1	3787.9	3484.3
12.5°	4534.0	4541.2	4565.5	4618.5	4651.4	4644.3	4541.2	4332.1	4138.7	4007.0	3597.4
15°	4594.1	4605.6	4648.6	4718.7	4829.0	4899.2	4849.1	4655.7	4443.8	4287.7	3732.0
17.5°	4660.0	4672.9	4720.2	4820.4	4965.1	5116.9	5171.3	5005.2	4774.6	4588.4	3882.4
20°	4697.3	4714.4	4781.8	4913.5	5082.5	5303.0	5483.5	5396.1	5144.1	4937.9	4055.7
22.5°	4757.4	4771.7	4829.0	4969.4	5171.3	5447.7	5795.7	5777.1	5555.1	5288.7	4246.2
25°	4920.7	4943.6	4972.2	5056.7	5251.5	5595.2	6054.9	6183.8	5953.2	5655.3	4420.9
27.5°	5228.6	5247.2	5245.8	5257.2	5367.5	5722.6	6279.7	6586.2	6348.5	6026.2	4589.9
30°	5579.4	5586.6	5592.3	5566.5	5590.9	5853.0	6485.9	6984.3	6746.6	6407.2	4737.4
32.5°	6006.2	6020.5	5971.8	5905.9	5885.9	6046.3	6656.4	7382.4	7217.7	6793.8	4883.4
35°	6510.3	6547.5	6448.7	6332.7	6251.1	6324.1	6885.5	7789.1	7700.4	7287.9	5076.8
37.5°	7086.0	7131.8	7040.2	6812.5	6696.5	6716.5	7184.8	8291.8	8310.4	7850.7	5364.6
40°	7557.1	7617.3	7620.2	7297.9	7121.8	7144.7	7564.3	8833.1	9046.5	8546.7	5704.0
42.5°	7867.9	7926.6	7988.2	7799.2	7614.4	7744.8	8006.8	9420.3	9874.3	9391.7	6178.0
45°	8208.7	8261.7	8296.1	8210.2	8107.1	8445.0	8541.0	10044.7	10756.4	10335.4	6696.5
47.5°	8604.0	8662.7	8695.7	8614.0	8575.4	9059.4	9116.7	10627.6	11698.8	11251.9	7269.3
50°	9131.0	9175.4	9158.2	9106.7	9098.1	9530.6	9669.5	11173.2	12476.4	12238.7	7863.6
52.5°	9786.9	9839.9	9858.5	9785.5	9752.5	9867.1	10114.9	11670.1	13183.8	13086.5	8498.0
55°	10183.6	10268.1	10551.6	10666.2	10745.0	10302.5	10594.6	12218.6	13818.2	13980.1	9179.7
57.5°	9675.2	9784.0	10418.5	10991.3	11731.7	11390.9	11274.9	12791.4	14452.7	14846.5	9996.0
60°	8435.0	8459.4	9277.1	10332.5	11821.9	12790.0	12694.1	13702.3	15140.1	15720.1	11071.5
62.5°	5851.5	5903.1	6869.7	8553.9	10707.7	13294.1	15108.6	15274.7	16125.3	17027.6	12648.2
65°	3017.4	2950.1	3830.8	5376.1	8072.7	12096.9	17064.8	18166.1	18262.0	19072.6	14868.0
67.5°	1857.4	1887.5	2299.9	3139.1	4773.2	8791.6	16860.0	21699.0	21193.5	21583.0	16928.8
70°	1394.9	1432.1	1715.6	2148.1	2910.0	5026.6	13559.0	22555.4	23261.5	23161.2	17556.0
71°	1213.0	1251.6	1546.7	1954.8	2444.6	3879.5	11423.8	21658.9	23333.1	23315.9	17319.7
72.5°	1034.0	1058.3	1288.9	1655.5	2060.8	2719.5	8582.5	19424.9	22337.8	22909.2	16476.2
75°	812.0	830.6	933.7	1263.1	1622.6	1669.8	4605.6	14562.9	18346.5	19434.9	13716.6
77.5°	661.6	674.5	727.5	938.0	1251.6	1182.9	2415.9	9479.0	11494.0	12589.5	8079.9
80°	525.6	539.9	571.4	635.8	938.0	843.5	1152.8	4803.2	5552.2	5540.8	3225.1
82.5°	408.1	412.4	449.7	466.9	641.6	598.6	624.4	2033.6	2252.7	2327.1	1164.3
85°	257.8	270.7	398.1	358.0	383.8	350.9	307.9	807.7	995.3	981.0	465.4
87.5°	78.8	83.1	134.6	151.8	170.4	153.2	113.1	237.7	290.7	315.1	116.0
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°	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9	3197.9
2.5°	3216.5	3200.7	3144.9	3099.0	3056.1	3008.8	2968.7	2957.3	2947.2	2942.9	2941.5
5°	3246.6	3199.3	3089.0	2998.8	2927.2	2861.3	2819.8	2801.2	2782.6	2782.6	2788.3
7.5°	3289.5	3203.6	3033.2	2898.6	2808.3	2746.8	2716.7	2713.8	2718.1	2722.4	2723.8
10°	3336.8	3200.7	2951.5	2784.0	2703.8	2675.1	2676.6	2700.9	2723.8	2741.0	2743.9
12.5°	3382.6	3183.5	2855.6	2676.6	2625.0	2630.8	2670.9	2725.3	2769.7	2794.0	2795.4
15°	3434.2	3156.3	2739.6	2574.9	2557.7	2602.1	2676.6	2759.6	2826.9	2867.0	2871.3
17.5°	3477.1	3110.5	2617.9	2476.1	2497.6	2579.2	2682.3	2789.7	2871.3	2921.5	2930.1
20°	3525.8	3051.8	2491.8	2381.6	2443.1	2553.4	2670.9	2786.8	2871.3	2920.0	2931.5
22.5°	3564.5	2968.7	2371.5	2304.2	2394.5	2521.9	2632.2	2725.3	2794.0	2819.8	2837.0
25°	3580.2	2864.2	2258.4	2241.2	2355.8	2470.4	2544.8	2597.8	2619.3	2616.4	2623.6
27.5°	3571.6	2743.9	2161.0	2191.1	2307.1	2390.2	2427.4	2423.1	2384.4	2348.6	2365.8
30°	3535.8	2600.7	2079.4	2139.5	2244.1	2289.9	2284.2	2228.3	2155.3	2088.0	2092.3
32.5°	3471.4	2446.0	2003.5	2080.8	2155.3	2175.3	2136.7	2063.6	1959.1	1871.7	1858.9
35°	3417.0	2298.5	1936.2	2013.5	2066.5	2056.5	2019.2	1924.7	1830.2	1752.9	1740.0
37.5°	3408.4	2172.5	1871.7	1937.6	1967.7	1953.4	1907.5	1827.3	1793.0	1734.3	1727.1
40°	3454.2	2083.7	1805.9	1857.4	1871.7	1860.3	1810.2	1764.3	1795.8	1781.5	1781.5
42.5°	3578.8	2036.4	1747.2	1777.2	1788.7	1797.3	1761.5	1722.8	1761.5	1695.6	1674.1
45°	3776.4	2037.9	1694.2	1698.5	1732.8	1762.9	1738.6	1681.3	1661.2	1529.5	1503.7
47.5°	4067.1	2086.6	1651.2	1624.0	1685.6	1735.7	1701.3	1618.3	1529.5	1442.1	1426.4
50°	4406.5	2173.9	1612.5	1546.7	1622.6	1701.3	1675.5	1578.2	1486.5	1433.5	1423.5
52.5°	4783.2	2284.2	1565.3	1460.7	1545.2	1685.6	1681.3	1572.4	1446.4	1410.6	1402.0
55°	5248.6	2393.0	1506.6	1360.5	1476.5	1672.7	1665.5	1525.2	1437.8	1412.0	1409.2
57.5°	5789.9	2550.6	1422.1	1258.8	1397.7	1619.7	1603.9	1496.5	1409.2	1390.6	1389.1
60°	6662.1	2795.4	1301.8	1165.7	1317.5	1526.6	1546.7	1447.8	1363.4	1359.1	1357.6
62.5°	7809.2	3139.1	1177.2	1069.8	1224.4	1406.3	1463.6	1382.0	1314.7	1336.1	1339.0
65°	9393.1	3428.4	1048.3	988.1	1121.3	1290.3	1384.8	1320.4	1260.2	1301.8	1301.8
67.5°	10425.6	3434.2	930.9	903.6	1016.8	1192.9	1301.8	1247.4	1190.1	1260.2	1263.1
70°	10210.8	3008.8	833.5	814.9	915.1	1088.4	1210.1	1167.2	1101.3	1164.3	1141.4
71°	9864.2	2772.5	794.8	780.5	875.0	1038.3	1167.2	1131.4	1065.5	1107.0	1094.1
72.5°	9311.5	2407.3	731.8	734.7	814.9	975.3	1107.0	1069.8	1003.9	1026.8	1022.5
75°	7870.8	2102.3	625.8	638.7	700.3	867.8	986.7	958.1	890.8	890.8	886.5
77.5°	4920.7	1469.3	519.8	527.0	594.3	743.3	847.8	823.5	759.0	737.5	731.8
80°	1835.9	759.0	406.7	415.3	456.8	585.7	701.7	678.8	612.9	588.6	565.7
82.5°	694.6	380.9	299.3	292.1	336.5	446.8	549.9	522.7	471.2	412.4	395.3
85°	262.1	189.0	183.3	177.6	197.6	264.9	340.8	335.1	280.7	239.2	234.9
87.5°	68.7	61.6	71.6	53.0	55.9	50.1	51.6	21.5	10.0	4.3	2.9
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)