

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: P458829

Luminaire Tested: **GALN-SA3C-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19508 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

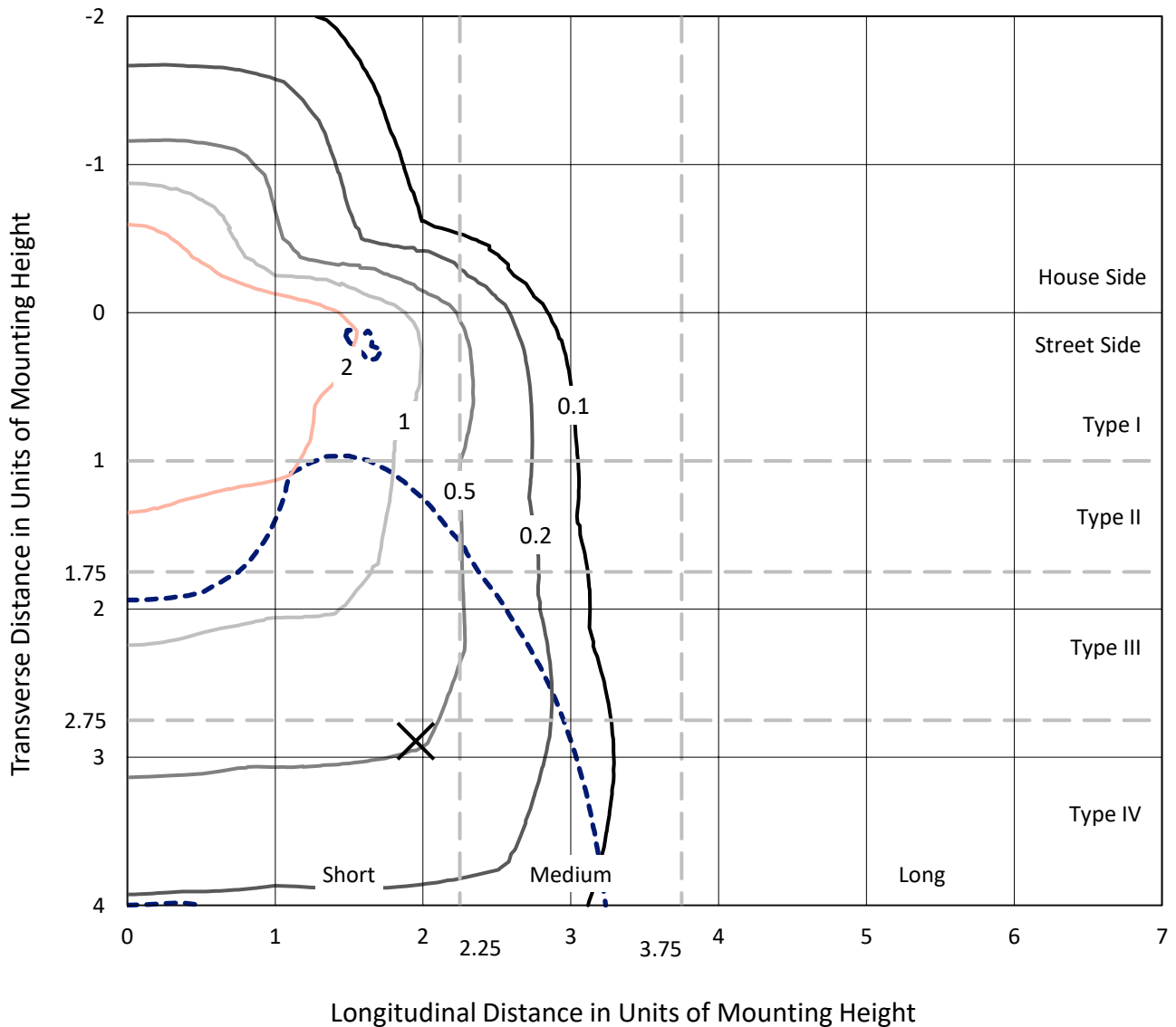
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

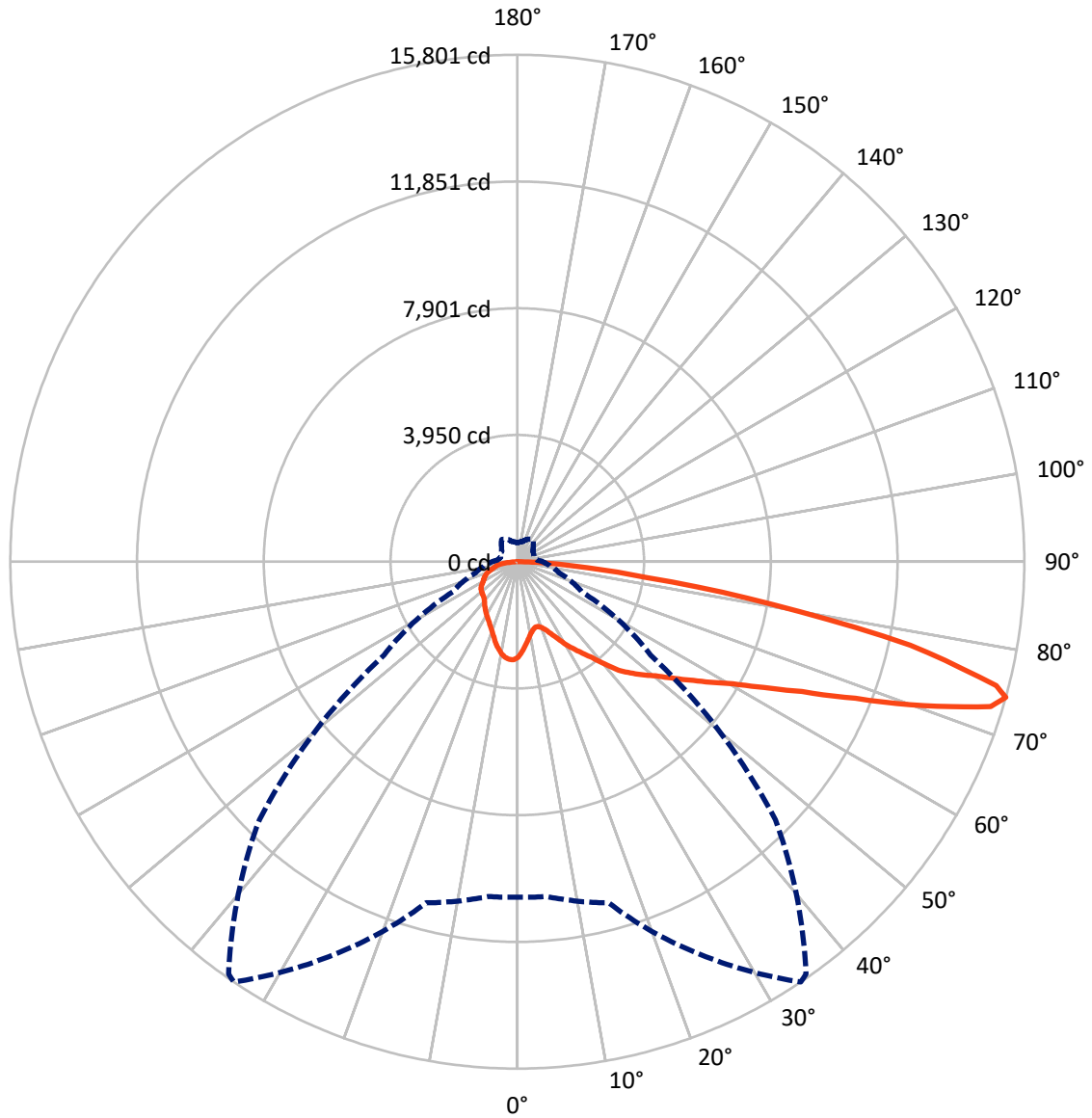
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SA3C-735-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4151.4	0.0	4151.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	15356.6	0.0	15356.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	19508.0	0.0	19508.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.9	1.4
10°-20°	741.5	3.8
20°-30°	1222.6	6.3
30°-40°	1831.3	9.4
40°-50°	2662.2	13.6
50°-60°	3718.4	19.1
60°-70°	4655.3	23.9
70°-80°	3849.6	19.7
80°-90°	556.2	2.9
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°	19508.0	100.0
0°-180°	19508.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458829

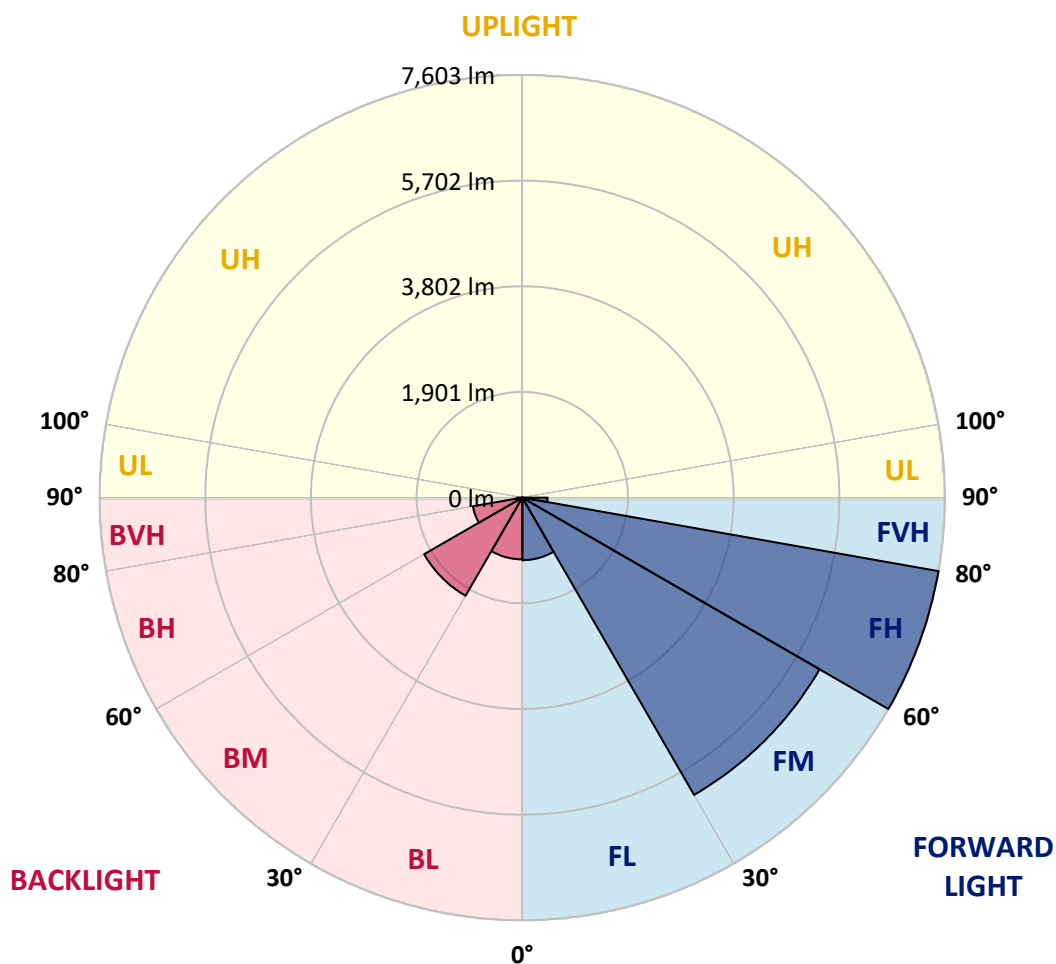
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1124.5	5.8			
FM	(30°-60°)	6173.1	31.6			
FH	(60°-80°)	7603.2	39.0			G4/12000
FVH	(80°-90°)	455.7	2.3			G3/500
BL	(0°-30°)	1110.4	5.7	B3/2500		
BM	(30°-60°)	2038.8	10.5	B2/2500		
BH	(60°-80°)	901.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	100.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5
2.5°	2752.6	2766.7	2774.2	2801.2	2807.7	2816.4	2839.1	2869.3	2908.2	2942.8	2973.1
5°	2523.5	2545.1	2558.1	2581.9	2628.3	2632.7	2693.2	2762.3	2841.2	2914.7	2975.2
7.5°	2306.3	2330.0	2340.9	2384.1	2445.7	2455.4	2544.0	2653.2	2785.0	2896.4	2989.3
10°	2143.1	2155.0	2178.7	2211.2	2284.7	2291.1	2406.8	2552.7	2723.4	2887.7	3013.1
12.5°	2054.5	2060.9	2066.4	2100.9	2173.3	2183.1	2304.1	2469.5	2674.8	2894.2	3052.0
15°	2067.4	2069.6	2045.8	2052.3	2110.7	2124.7	2244.7	2414.3	2644.5	2910.4	3110.3
17.5°	2176.6	2169.0	2110.7	2080.4	2121.5	2128.0	2232.8	2392.7	2630.5	2940.7	3170.9
20°	2348.4	2337.6	2237.1	2170.1	2193.9	2199.3	2271.7	2408.9	2644.5	2990.4	3264.9
22.5°	2562.4	2558.1	2405.7	2324.6	2323.6	2323.6	2361.4	2467.3	2686.7	3058.5	3363.2
25°	2861.8	2839.1	2640.2	2535.4	2506.2	2504.0	2499.7	2563.5	2740.7	3130.9	3479.9
27.5°	3168.7	3129.8	2952.5	2791.5	2728.8	2721.3	2693.2	2699.7	2809.9	3213.0	3612.9
30°	3444.3	3419.4	3253.0	3074.7	3000.1	2982.8	2905.0	2869.3	2925.5	3361.1	3824.7
32.5°	3655.0	3639.9	3510.2	3348.1	3237.9	3234.6	3121.1	3092.0	3106.0	3540.5	4066.8
35°	3825.8	3831.2	3765.3	3624.8	3498.3	3479.9	3404.3	3367.5	3326.5	3799.8	4371.5
37.5°	4059.2	4071.1	4066.8	3945.7	3791.2	3795.5	3778.2	3717.7	3608.6	4089.5	4709.8
40°	4316.4	4325.1	4324.0	4277.5	4196.5	4200.8	4194.3	4125.1	3961.9	4458.0	5085.9
42.5°	4672.0	4630.9	4523.9	4570.4	4617.9	4638.5	4682.8	4616.9	4393.2	4851.4	5439.3
45°	5069.7	4991.9	4749.8	4771.4	4947.6	4986.5	5230.7	5139.9	4861.1	5303.1	5855.4
47.5°	5320.4	5243.7	5039.4	5035.1	5268.5	5306.4	5738.7	5705.2	5286.9	5790.5	6363.3
50°	5544.1	5533.3	5303.1	5358.2	5586.3	5642.5	6292.0	6260.7	5711.6	6365.5	6916.7
52.5°	5875.9	5788.4	5604.7	5718.1	6019.7	6093.1	6841.0	6749.1	6101.8	6873.4	7453.8
55°	6025.1	6004.5	5993.7	6092.1	6506.0	6558.9	7374.9	7164.1	6434.7	7303.6	7862.3
57.5°	6423.8	6386.0	6493.0	6560.0	7078.8	7159.8	7932.5	7597.5	6726.4	7645.1	8061.1
60°	6940.4	6919.9	7018.2	7139.3	7718.6	7841.8	8568.0	7967.1	6961.0	7816.9	7952.0
62.5°	7712.1	7709.9	7691.5	7950.9	8625.3	8738.8	9297.5	8327.0	6997.7	7688.3	7387.9
65°	8818.7	8779.8	8619.9	8903.0	9753.6	9886.5	10057.3	8528.0	6776.2	7028.0	6220.7
67.5°	9976.2	9974.0	9844.3	10211.8	11373.6	11510.8	11007.2	8483.7	6161.2	5693.3	4418.0
70°	10935.9	10889.4	11054.8	12033.9	13443.2	13602.0	11838.3	7961.7	4907.6	3759.9	2625.1
72.5°	11166.1	11168.2	11511.9	13438.9	15430.6	15455.5	12137.7	6453.0	3284.3	2073.9	1313.1
74°	10457.1	10475.5	11008.3	13509.1	15801.3	15688.9	11372.5	5071.9	2220.9	1354.2	946.7
75°	9545.0	9429.3	10199.9	13041.1	15416.6	15295.5	10476.6	4070.0	1694.6	1081.8	828.9
77.5°	5103.2	5221.0	6409.8	9732.0	12524.6	12385.1	7103.6	1951.8	915.4	753.3	596.6
80°	1816.7	2003.7	2816.4	5092.4	8029.8	8073.0	3390.2	894.8	644.1	555.5	421.5
82.5°	741.4	761.9	1209.3	2259.8	4077.6	4116.5	1384.4	531.7	460.4	382.6	251.8
85°	289.6	298.3	535.0	1015.9	1740.0	1853.4	478.8	281.0	283.2	219.4	128.6
87.5°	97.3	110.2	219.4	338.3	591.2	579.3	139.4	83.2	101.6	95.1	40.0
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°	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5	2978.5
2.5°	2988.2	3008.7	3022.8	3037.9	3052.0	3056.3	3053.1	3062.8	3063.9	3064.9	3066.0
5°	3005.5	3033.6	3060.6	3075.8	3082.2	3076.8	3058.5	3048.7	3040.1	3033.6	3035.8
7.5°	3029.3	3069.3	3094.1	3100.6	3083.3	3058.5	3013.1	2977.4	2954.7	2939.6	2938.5
10°	3066.0	3104.9	3125.5	3107.1	3059.5	2999.0	2927.7	2860.7	2809.9	2794.8	2793.7
12.5°	3112.5	3156.8	3155.7	3101.7	3018.5	2910.4	2794.8	2716.9	2647.8	2613.2	2627.2
15°	3173.0	3206.5	3175.2	3077.9	2946.1	2798.0	2655.3	2549.4	2471.6	2434.9	2437.0
17.5°	3243.3	3272.4	3189.2	3035.8	2844.5	2654.3	2488.9	2388.4	2326.8	2299.8	2297.6
20°	3330.8	3339.4	3189.2	2962.3	2713.7	2486.8	2329.0	2258.7	2224.1	2210.1	2214.4
22.5°	3424.8	3407.5	3171.9	2858.5	2541.9	2311.7	2205.8	2174.4	2157.1	2155.0	2157.1
25°	3530.7	3482.1	3136.3	2718.0	2362.5	2160.4	2098.8	2104.2	2107.4	2107.4	2115.0
27.5°	3660.4	3563.2	3076.8	2540.8	2152.8	2019.9	2002.6	2040.4	2057.7	2060.9	2066.4
30°	3831.2	3651.8	2978.5	2319.2	1974.5	1893.4	1923.7	1974.5	1993.9	2005.8	2003.7
32.5°	4034.4	3749.0	2845.6	2097.7	1830.8	1804.8	1841.6	1893.4	1915.0	1921.5	1912.9
35°	4273.2	3859.3	2670.5	1890.2	1705.4	1720.5	1763.7	1780.0	1799.4	1799.4	1803.7
37.5°	4530.4	3947.9	2456.5	1700.0	1608.1	1663.2	1694.6	1679.5	1670.8	1660.0	1665.4
40°	4791.9	4013.8	2178.7	1511.9	1510.9	1603.8	1612.4	1569.2	1534.6	1523.8	1518.4
42.5°	5020.0	4054.9	1928.0	1366.0	1419.0	1545.4	1551.9	1482.8	1427.6	1395.2	1384.4
45°	5289.1	4102.4	1682.7	1245.0	1333.6	1499.0	1515.2	1422.2	1341.2	1273.1	1255.8
47.5°	5657.6	4210.5	1489.2	1151.0	1272.0	1469.8	1492.5	1372.5	1265.5	1176.9	1162.9
50°	6073.7	4358.6	1339.0	1087.2	1224.5	1443.9	1472.0	1321.7	1195.3	1096.9	1086.1
52.5°	6455.2	4438.5	1209.3	1029.9	1178.0	1396.3	1444.9	1285.0	1126.1	1017.0	1007.2
55°	6663.8	4308.9	1081.8	973.7	1114.2	1334.7	1407.1	1234.2	1059.1	974.8	960.8
57.5°	6691.9	4040.8	966.2	913.2	1047.2	1259.0	1336.9	1172.6	1015.9	945.6	933.7
60°	6474.6	3641.0	876.5	863.5	979.1	1173.7	1258.0	1118.6	971.6	913.2	901.3
62.5°	5934.3	3206.5	813.8	818.1	910.0	1084.0	1199.6	1066.7	929.4	877.6	866.7
65°	5004.9	2646.7	753.3	771.6	848.4	1013.7	1146.7	1023.4	887.3	850.5	840.8
67.5°	3476.7	1910.7	703.6	723.0	790.0	942.4	1085.1	977.0	839.7	820.3	805.1
70°	1924.8	1175.8	645.2	667.9	729.5	862.4	1015.9	906.7	770.6	761.9	740.3
72.5°	1011.6	748.9	579.3	604.1	647.4	759.8	910.0	830.0	702.5	665.7	637.6
74°	790.0	613.9	535.0	560.9	590.1	699.2	847.3	774.9	653.8	610.6	589.0
75°	688.4	546.8	497.1	530.6	556.6	658.2	798.7	736.0	626.8	585.8	566.3
77.5°	486.3	409.6	406.4	446.3	460.4	577.1	719.8	670.1	558.7	515.5	497.1
80°	341.5	306.9	322.1	346.9	366.4	510.1	667.9	579.3	458.2	407.4	401.0
82.5°	222.6	201.0	230.2	252.9	259.4	376.1	539.3	439.9	333.9	271.3	251.8
85°	102.7	100.5	131.8	128.6	127.5	183.7	319.9	257.2	192.4	143.7	135.1
87.5°	25.9	24.9	32.4	27.0	32.4	28.1	29.2	7.6	1.1	0.0	0.0
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)