

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: P452826

Luminaire Tested: **GALN-SA3D-740-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452826  
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-SA3D-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA 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: 23043 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

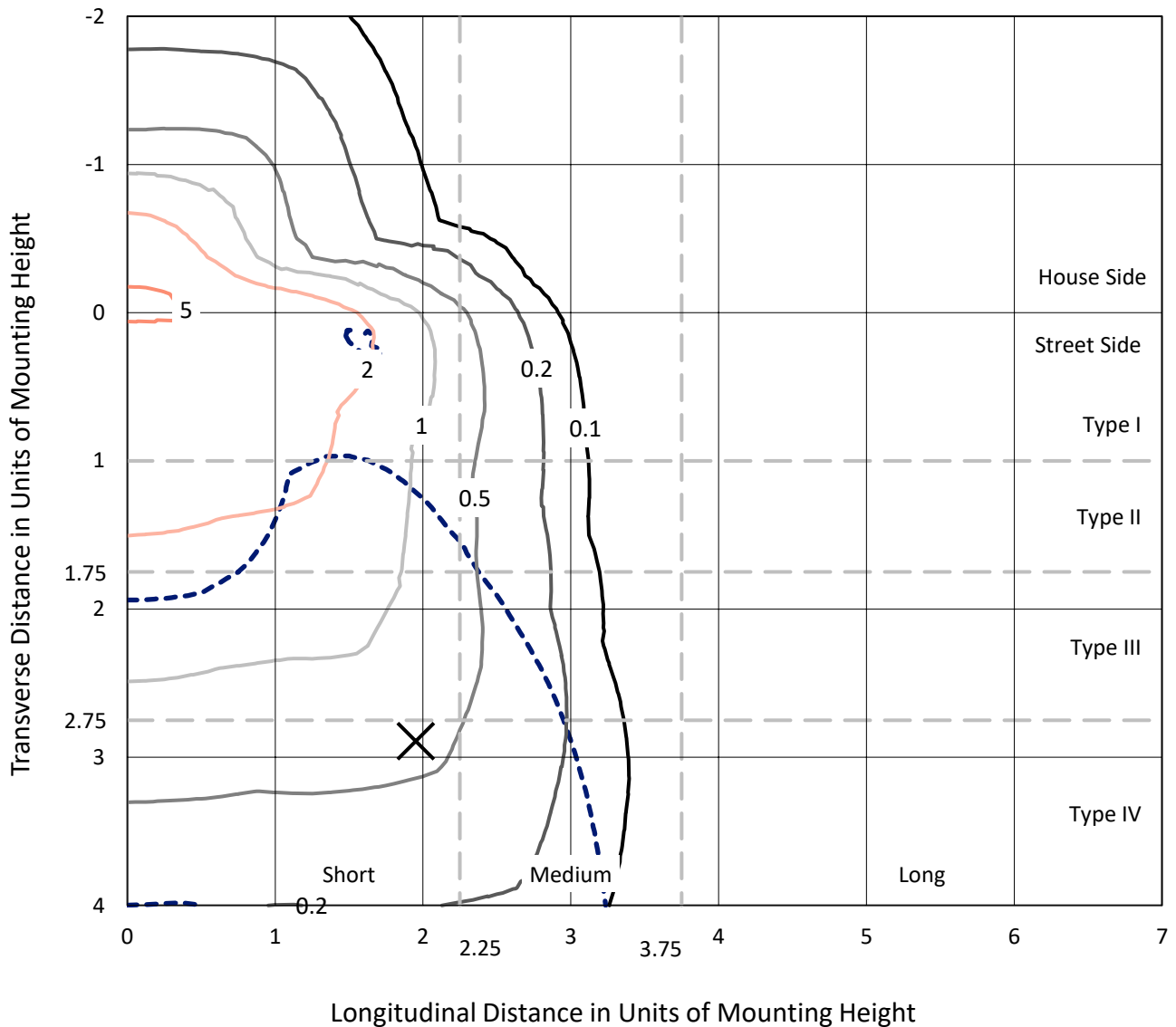
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

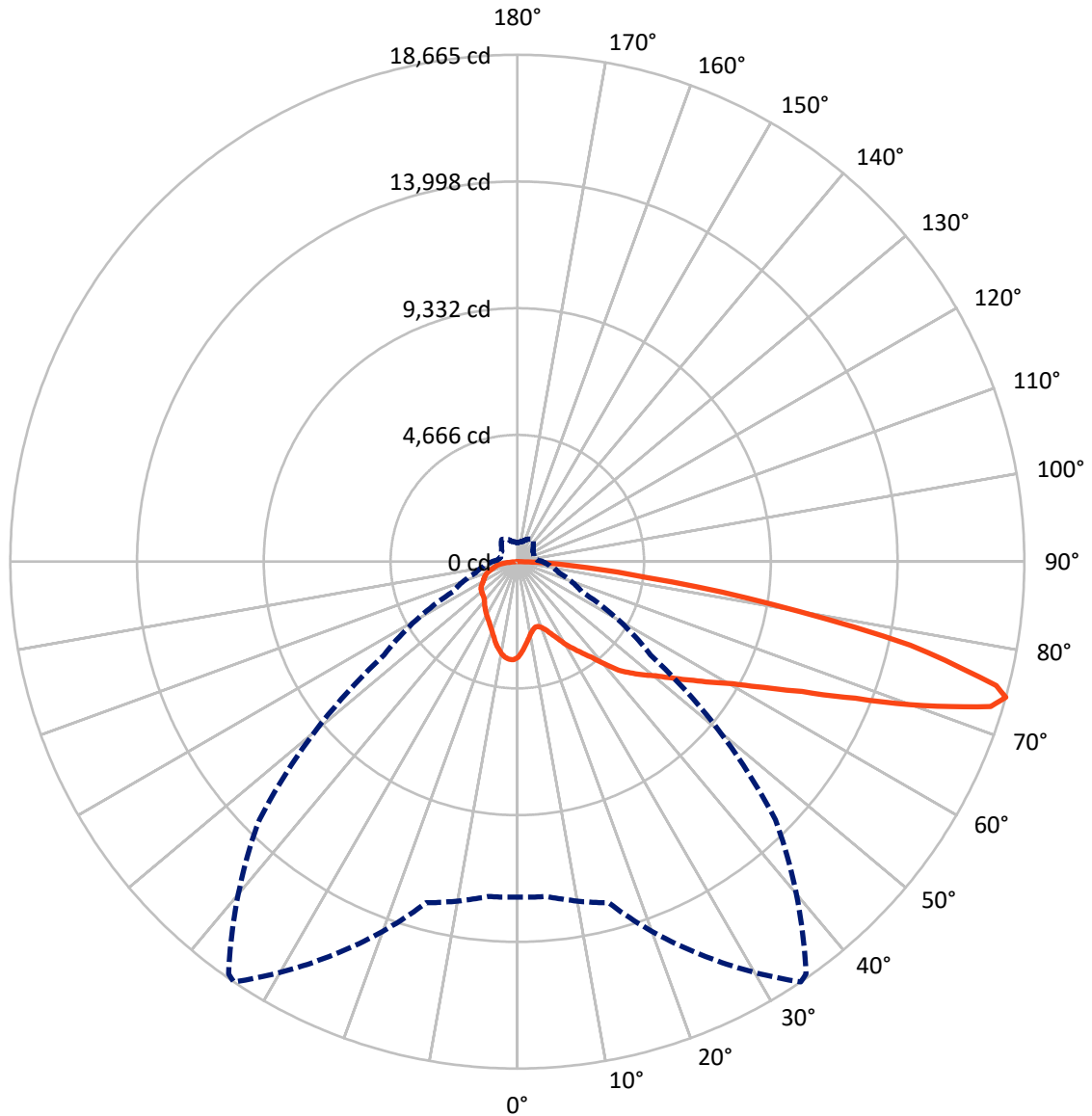
× Max cd  
 - - - 1/2 Max cd



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

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### 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	4903.7	0.0	4903.7
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	18139.3	0.0	18139.3
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	23043.0	0.0	23043.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.0	1.4
10°-20°	875.9	3.8
20°-30°	1444.1	6.3
30°-40°	2163.1	9.4
40°-50°	3144.6	13.6
50°-60°	4392.3	19.1
60°-70°	5498.9	23.9
70°-80°	4547.1	19.7
80°-90°	657.0	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°	23043.0	100.0
0°-180°	23043.0	100.0

**Coefficient of Utilization**



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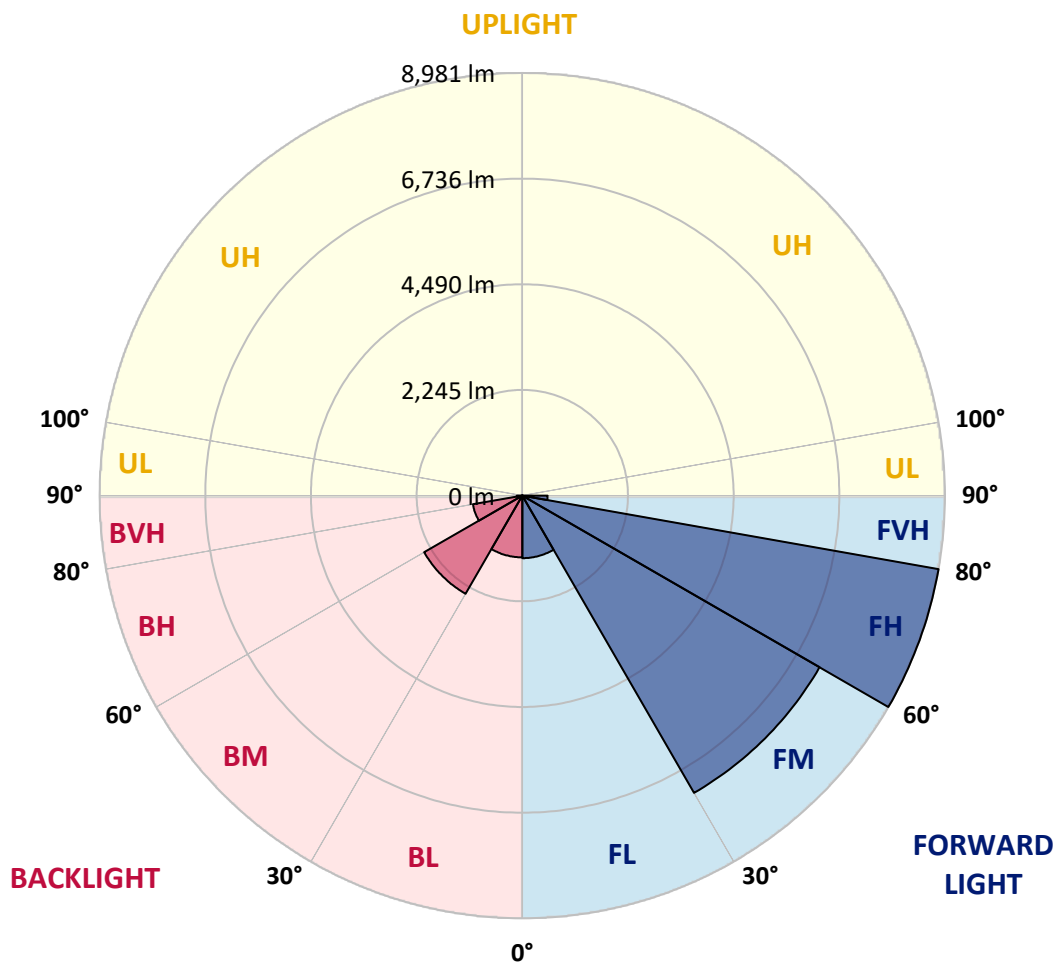
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1328.3	5.8			
FM	(30°-60°)	7291.8	31.6			
FH	(60°-80°)	8980.9	39.0			G4/12000
FVH	(80°-90°)	538.3	2.3			G4/750
BL	(0°-30°)	1311.7	5.7	B3/2500		
BM	(30°-60°)	2408.2	10.5	B2/2500		
BH	(60°-80°)	1065.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	118.8	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°	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2
2.5°	3251.4	3268.0	3276.9	3308.9	3316.5	3326.7	3353.5	3389.3	3435.2	3476.1	3511.8
5°	2980.8	3006.3	3021.6	3049.7	3104.6	3109.7	3181.2	3262.9	3356.1	3442.9	3514.4
7.5°	2724.2	2752.3	2765.0	2816.1	2888.9	2900.4	3005.0	3134.0	3289.7	3421.2	3531.0
10°	2531.4	2545.5	2573.6	2611.8	2698.7	2706.3	2842.9	3015.2	3216.9	3411.0	3559.1
12.5°	2426.7	2434.4	2440.8	2481.6	2567.2	2578.7	2721.6	2916.9	3159.5	3418.6	3605.0
15°	2442.1	2444.6	2416.5	2424.2	2493.1	2509.7	2651.4	2851.8	3123.8	3437.8	3674.0
17.5°	2571.0	2562.1	2493.1	2457.4	2505.9	2513.6	2637.4	2826.3	3107.2	3473.5	3745.4
20°	2774.0	2761.2	2642.5	2563.3	2591.4	2597.8	2683.3	2845.5	3123.8	3532.3	3856.5
22.5°	3026.7	3021.6	2841.6	2745.9	2744.6	2744.6	2789.3	2914.4	3173.5	3612.7	3972.7
25°	3380.3	3353.5	3118.6	2994.8	2960.4	2957.8	2952.7	3028.0	3237.4	3698.2	4110.5
27.5°	3742.9	3696.9	3487.6	3297.4	3223.3	3214.4	3181.2	3188.9	3319.1	3795.2	4267.6
30°	4068.4	4039.0	3842.5	3631.8	3543.7	3523.3	3431.4	3389.3	3455.7	3970.1	4517.8
32.5°	4317.3	4299.5	4146.3	3954.8	3824.6	3820.8	3686.7	3652.2	3668.8	4182.0	4803.7
35°	4519.0	4525.4	4447.5	4281.6	4132.2	4110.5	4021.2	3977.8	3929.3	4488.4	5163.7
37.5°	4794.8	4808.8	4803.7	4660.7	4478.2	4483.3	4462.9	4391.4	4262.4	4830.5	5563.3
40°	5098.6	5108.8	5107.5	5052.6	4956.9	4962.0	4954.3	4872.6	4679.9	5265.8	6007.5
42.5°	5518.6	5470.1	5343.7	5398.6	5454.8	5479.0	5531.4	5453.5	5189.2	5730.5	6424.9
45°	5988.4	5896.4	5610.5	5636.0	5844.1	5890.1	6178.6	6071.3	5742.0	6264.1	6916.4
47.5°	6284.5	6193.9	5952.6	5947.5	6223.2	6267.9	6778.6	6739.0	6245.0	6839.8	7516.4
50°	6548.8	6536.0	6264.1	6329.2	6598.6	6664.9	7432.2	7395.1	6746.6	7519.0	8170.0
52.5°	6940.7	6837.3	6620.3	6754.3	7110.5	7197.3	8080.7	7972.1	7207.5	8118.9	8804.5
55°	7116.8	7092.6	7079.8	7196.0	7684.9	7747.5	8711.3	8462.3	7600.7	8627.0	9287.0
57.5°	7587.9	7543.2	7669.6	7748.7	8361.5	8457.2	9370.0	8974.2	7945.3	9030.4	9521.9
60°	8198.1	8173.8	8290.0	8433.0	9117.2	9262.7	10120.6	9410.8	8222.3	9233.4	9393.0
62.5°	9109.6	9107.0	9085.3	9391.7	10188.3	10322.3	10982.3	9835.9	8265.8	9081.5	8726.6
65°	10416.8	10370.8	10181.9	10516.3	11521.0	11678.0	11879.7	10073.4	8004.1	8301.5	7347.9
67.5°	11784.0	11781.4	11628.2	12062.3	13434.6	13596.7	13001.8	10021.0	7277.7	6724.9	5218.6
70°	12917.6	12862.7	13058.0	14214.5	15879.2	16066.8	13983.5	9404.4	5796.9	4441.2	3100.8
72.5°	13189.5	13192.0	13598.0	15874.1	18226.8	18256.1	14337.1	7622.4	3879.5	2449.7	1551.0
74°	12352.0	12373.7	13003.1	15957.0	18664.6	18531.9	13433.3	5990.9	2623.3	1599.5	1118.3
75°	11274.6	11138.0	12048.2	15404.3	18210.2	18067.2	12375.0	4807.5	2001.7	1277.8	979.1
77.5°	6027.9	6167.1	7571.3	11495.5	14794.1	14629.4	8390.9	2305.5	1081.2	889.8	704.7
80°	2145.9	2366.7	3326.7	6015.2	9484.9	9535.9	4004.6	1057.0	760.8	656.2	497.9
82.5°	875.7	900.0	1428.5	2669.3	4816.5	4862.4	1635.3	628.1	543.8	451.9	297.4
85°	342.1	352.3	631.9	1200.0	2055.3	2189.3	565.5	331.9	334.5	259.1	151.9
87.5°	114.9	130.2	259.1	399.6	698.3	684.2	164.7	98.3	120.0	112.3	47.2
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°	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2	3518.2
2.5°	3529.7	3554.0	3570.5	3588.4	3605.0	3610.1	3606.3	3617.8	3619.1	3620.3	3621.6
5°	3550.1	3583.3	3615.2	3633.1	3640.8	3634.4	3612.7	3601.2	3591.0	3583.3	3585.9
7.5°	3578.2	3625.4	3654.8	3662.5	3642.0	3612.7	3559.1	3516.9	3490.1	3472.3	3471.0
10°	3621.6	3667.6	3691.8	3670.1	3614.0	3542.5	3458.2	3379.1	3319.1	3301.2	3299.9
12.5°	3676.5	3728.8	3727.6	3663.7	3565.4	3437.8	3301.2	3209.3	3127.6	3086.7	3103.3
15°	3748.0	3787.6	3750.5	3635.7	3479.9	3305.0	3136.5	3011.4	2919.5	2876.1	2878.7
17.5°	3831.0	3865.4	3767.1	3585.9	3359.9	3135.2	2939.9	2821.2	2748.4	2716.5	2714.0
20°	3934.4	3944.6	3767.1	3499.1	3205.5	2937.4	2751.0	2668.0	2627.2	2610.6	2615.7
22.5°	4045.4	4025.0	3746.7	3376.5	3002.5	2730.6	2605.5	2568.4	2548.0	2545.5	2548.0
25°	4170.5	4113.1	3704.6	3210.6	2790.6	2551.9	2479.1	2485.5	2489.3	2489.3	2498.2
27.5°	4323.7	4208.8	3634.4	3001.2	2542.9	2385.9	2365.5	2410.2	2430.6	2434.4	2440.8
30°	4525.4	4313.5	3518.2	2739.5	2332.3	2236.5	2272.3	2332.3	2355.3	2369.3	2366.7
32.5°	4765.4	4428.4	3361.2	2477.8	2162.5	2131.9	2175.3	2236.5	2262.1	2269.7	2259.5
35°	5047.5	4558.6	3154.4	2232.7	2014.4	2032.3	2083.4	2102.5	2125.5	2125.5	2130.6
37.5°	5351.4	4663.3	2901.6	2008.0	1899.5	1964.6	2001.7	1983.8	1973.6	1960.8	1967.2
40°	5660.3	4741.2	2573.6	1785.9	1784.6	1894.4	1904.6	1853.6	1812.7	1800.0	1793.6
42.5°	5929.6	4789.7	2277.4	1613.6	1676.1	1825.5	1833.1	1751.4	1686.3	1648.0	1635.3
45°	6247.5	4845.8	1987.6	1470.6	1575.3	1770.6	1789.7	1680.0	1584.2	1503.8	1483.4
47.5°	6682.8	4973.5	1759.1	1359.5	1502.5	1736.1	1762.9	1621.2	1494.9	1390.2	1373.6
50°	7174.3	5148.4	1581.7	1284.2	1446.3	1705.5	1738.7	1561.2	1411.9	1295.7	1282.9
52.5°	7624.9	5242.8	1428.5	1216.6	1391.5	1649.3	1706.8	1517.8	1330.2	1201.2	1189.8
55°	7871.3	5089.7	1277.8	1150.2	1316.1	1576.6	1662.1	1457.8	1251.0	1151.5	1134.9
57.5°	7904.5	4773.1	1141.2	1078.7	1237.0	1487.2	1579.1	1385.1	1200.0	1117.0	1103.0
60°	7647.9	4300.7	1035.3	1020.0	1156.6	1386.3	1485.9	1321.2	1147.6	1078.7	1064.7
62.5°	7009.6	3787.6	961.3	966.4	1074.9	1280.4	1417.0	1260.0	1097.8	1036.6	1023.8
65°	5911.8	3126.3	889.8	911.5	1002.1	1197.4	1354.4	1208.9	1048.1	1004.7	993.2
67.5°	4106.7	2257.0	831.0	854.0	933.2	1113.2	1281.7	1154.0	991.9	968.9	951.0
70°	2273.6	1388.9	762.1	788.9	861.7	1018.7	1200.0	1071.0	910.2	900.0	874.4
72.5°	1194.9	884.7	684.2	713.6	764.7	897.4	1074.9	980.4	829.8	786.4	753.2
74°	933.2	725.1	631.9	662.5	697.0	825.9	1000.8	915.3	772.3	721.3	695.7
75°	813.2	645.9	587.2	626.8	657.4	777.4	943.4	869.3	740.4	691.9	668.9
77.5°	574.5	483.8	480.0	527.2	543.8	681.7	850.2	791.5	660.0	608.9	587.2
80°	403.4	362.5	380.4	409.8	432.8	602.5	788.9	684.2	541.3	481.3	473.6
82.5°	263.0	237.4	271.9	298.7	306.4	444.2	637.0	519.6	394.5	320.4	297.4
85°	121.3	118.7	155.7	151.9	150.6	217.0	377.9	303.8	227.2	169.8	159.6
87.5°	30.6	29.4	38.3	31.9	38.3	33.2	34.5	8.9	1.3	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)