

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: P941148

Luminaire Tested: **GALN-SB4C-750-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

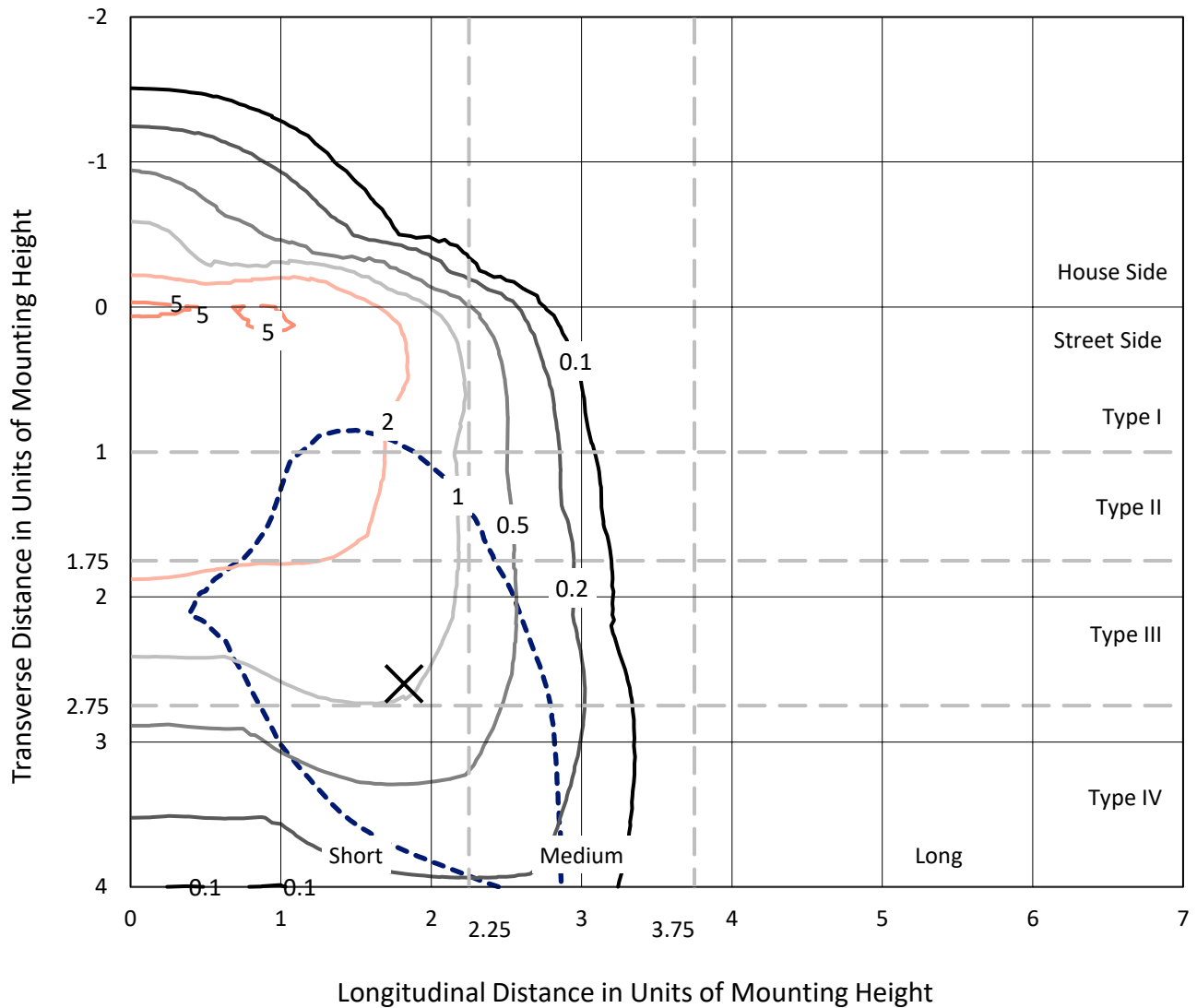
Lumens per Lamp: N/A  
Luminaire Lumens: 24043 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

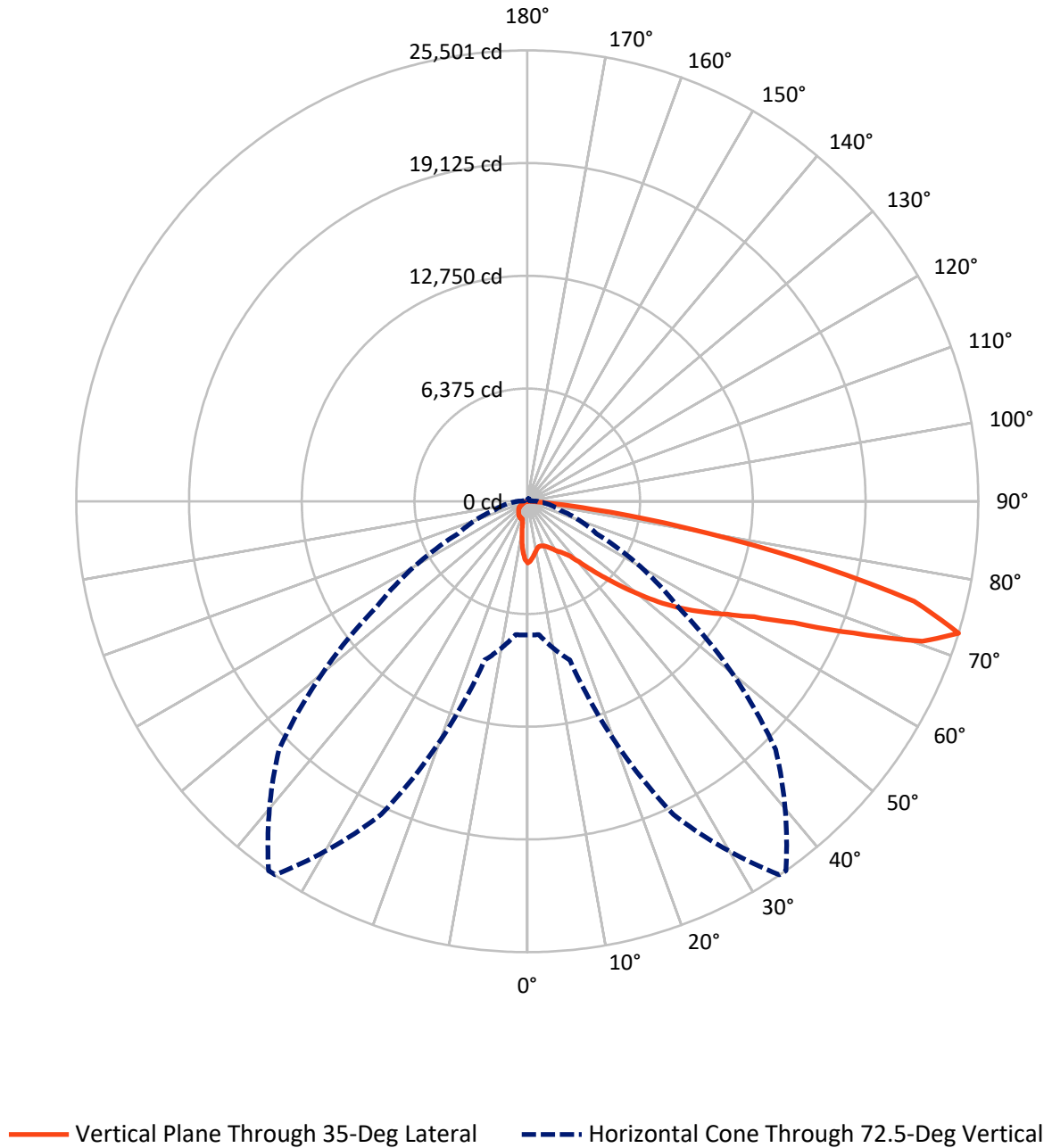
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2705.9	0.0	2705.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	21337.1	0.0	21337.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	24043.0	0.0	24043.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.3	1.2
10°-20°	669.9	2.8
20°-30°	1088.2	4.5
30°-40°	1815.6	7.6
40°-50°	3435.2	14.3
50°-60°	5458.5	22.7
60°-70°	6752.6	28.1
70°-80°	4197.4	17.5
80°-90°	339.2	1.4
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°	24043.0	100.0
0°-180°	24043.0	100.0

**Coefficient of Utilization**



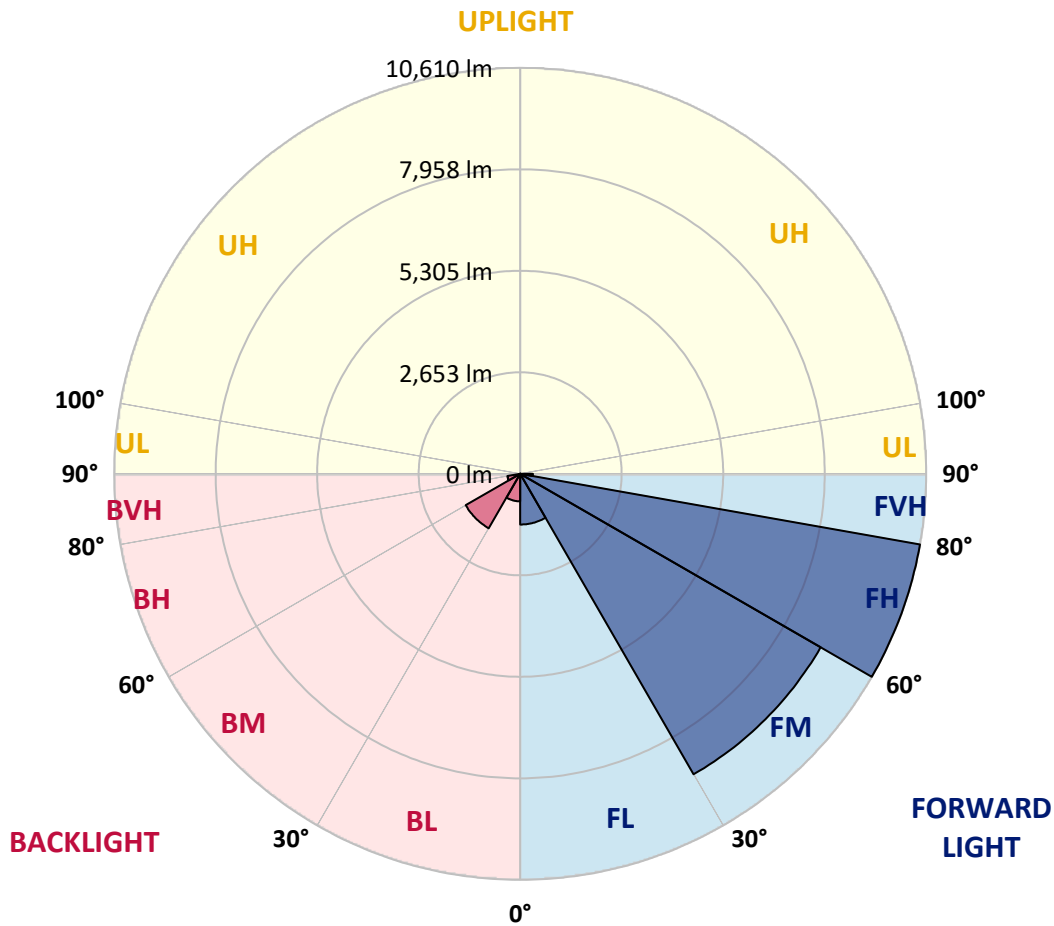
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.4	5.5			
FM (30°-60°)	9066.6	37.7			
FH (60°-80°)	10610.5	44.1			G4/12000
FVH (80°-90°)	334.6	1.4			G3/500
BL (0°-30°)	719.0	3.0	B2/1000		
BM (30°-60°)	1642.7	6.8	B2/2500		
BH (60°-80°)	339.5	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6
2.5°	3329.6	3357.8	3363.1	3371.9	3371.9	3382.5	3400.1	3424.7	3465.3	3486.4
5°	3068.9	3090.0	3116.4	3137.6	3178.1	3183.4	3252.1	3319.0	3412.4	3482.9
7.5°	2806.4	2831.0	2866.3	2917.4	2970.2	2986.1	3090.0	3202.8	3350.7	3482.9
10°	2621.4	2623.2	2654.9	2706.0	2790.5	2809.9	2936.7	3097.1	3282.0	3461.7
12.5°	2517.5	2529.8	2543.9	2582.6	2663.7	2676.0	2811.7	3000.2	3213.3	3449.4
15°	2517.5	2526.3	2535.1	2554.5	2619.6	2630.2	2750.0	2938.5	3178.1	3454.7
17.5°	2543.9	2558.0	2550.9	2573.8	2642.5	2649.6	2755.3	2920.9	3176.3	3488.2
20°	2607.3	2617.9	2603.8	2617.9	2686.6	2700.7	2809.9	2954.4	3206.3	3546.3
22.5°	2707.7	2713.0	2679.5	2690.1	2760.6	2778.2	2905.0	3049.5	3278.5	3639.7
25°	2834.6	2845.1	2794.1	2806.4	2873.3	2894.5	3040.7	3192.2	3393.0	3768.3
27.5°	2980.8	2986.1	2942.0	2940.3	3026.6	3056.5	3204.5	3368.4	3546.3	3930.3
30°	3148.2	3164.0	3121.7	3114.7	3223.9	3248.6	3394.8	3585.1	3771.8	4173.5
32.5°	3280.3	3292.6	3267.9	3285.6	3396.6	3415.9	3625.6	3891.6	4125.9	4518.8
35°	3470.5	3477.6	3421.2	3452.9	3579.8	3629.1	3940.9	4321.4	4571.6	4952.1
37.5°	4159.4	4159.4	3919.8	3763.0	3884.5	3928.6	4372.5	4862.3	5121.3	5533.5
40°	5112.4	5096.6	4746.0	4425.4	4409.5	4495.9	4987.4	5544.1	5831.2	6231.1
42.5°	6128.9	6104.3	5626.9	5309.8	5256.9	5286.9	5697.3	6384.4	6676.8	7082.0
45°	7030.9	7023.9	6587.0	6160.7	6065.5	6160.7	6583.5	7367.4	7577.1	8003.4
47.5°	7786.7	7786.7	7467.8	7189.5	7140.2	7196.5	7783.2	8457.9	8438.5	8984.7
50°	8657.0	8649.9	8346.9	8227.1	8278.2	8357.5	9164.3	9606.5	9329.9	9948.3
52.5°	9266.5	9308.8	9204.9	9185.5	9446.2	9583.6	10566.7	10730.5	10128.0	10862.6
55°	9749.2	9798.6	9918.4	10054.0	10556.1	10735.8	11924.9	11796.3	10795.7	11655.4
57.5°	10432.8	10362.3	10547.3	10815.1	11627.2	11843.9	13240.9	12802.3	11333.0	12298.4
60°	11262.5	11273.1	11304.8	11643.1	12696.6	12974.9	14537.5	13753.6	11678.3	12693.0
62.5°	12259.6	12275.5	12340.7	12860.4	14132.3	14394.8	15918.7	14532.2	11836.8	12582.0
65°	12190.9	12257.9	12985.5	14763.0	16315.1	16574.0	17530.6	15078.4	11597.3	11567.3
67.5°	11105.7	11215.0	12432.3	17035.6	19605.9	19894.8	19479.1	15185.8	10563.1	8995.2
70°	9682.3	9721.0	11185.0	19079.2	23416.5	23708.9	21223.2	14003.7	8015.7	5017.3
72.5°	7561.2	7570.0	9287.7	19553.1	25484.7	25500.6	19854.3	10395.8	4310.9	1927.3
75°	5401.4	5348.5	6220.6	15857.0	22421.1	22600.8	14884.6	4876.4	1647.2	910.8
77.5°	2896.2	2954.4	3519.9	9403.9	15488.8	15795.4	8121.4	1405.8	838.6	620.1
80°	894.9	944.3	1442.8	4305.6	8773.3	8958.2	3010.7	625.4	584.9	442.2
82.5°	281.9	292.4	673.0	1809.3	3641.4	3726.0	872.0	354.1	399.9	292.4
85°	81.0	82.8	299.5	674.7	900.2	917.8	244.9	137.4	229.0	181.5
87.5°	8.8	28.2	112.7	112.7	79.3	77.5	26.4	29.9	65.2	22.9
90°	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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3484.6	0°	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6	3484.6
3500.5	2.5°	3491.7	3493.4	3470.5	3431.8	3389.5	3354.3	3310.2	3275.0	3250.3	3243.3
3532.2	5°	3516.3	3504.0	3438.8	3320.8	3179.9	3058.3	2922.7	2815.2	2744.7	2714.8
3565.7	7.5°	3553.3	3518.1	3375.4	3142.9	2873.3	2633.7	2390.6	2202.1	2082.3	2022.4
3597.4	10°	3585.1	3514.6	3269.7	2885.7	2473.4	2110.5	1782.8	1555.6	1428.7	1368.8
3634.4	12.5°	3615.0	3512.8	3132.3	2580.9	2022.4	1578.5	1273.7	1161.0	1125.7	1113.4
3694.3	15°	3671.4	3518.1	2959.7	2232.1	1573.2	1192.7	1081.7	1079.9	1087.0	1083.4
3785.9	17.5°	3748.9	3523.4	2764.1	1862.1	1213.8	1051.7	1046.4	1062.3	1072.9	1067.6
3900.4	20°	3849.3	3544.5	2556.2	1495.7	1042.9	1016.5	1028.8	1042.9	1051.7	1042.9
4053.7	22.5°	3990.2	3581.5	2329.0	1201.5	988.3	995.4	1005.9	1021.8	1030.6	1018.3
4249.2	25°	4162.9	3639.7	2105.2	1044.7	961.9	970.7	986.6	1004.2	1014.7	1002.4
4495.9	27.5°	4386.6	3733.0	1899.1	1009.5	935.5	940.7	963.6	990.1	1004.2	988.3
4846.4	30°	4710.8	3886.3	1721.2	1025.3	919.6	907.3	939.0	976.0	991.8	977.7
5323.8	32.5°	5140.6	4103.0	1612.0	1050.0	912.6	868.5	898.5	946.0	972.5	963.6
5947.5	35°	5704.4	4432.4	1569.7	1078.2	907.3	828.0	849.1	900.2	946.0	954.8
6733.2	37.5°	6387.9	4890.5	1582.0	1090.5	891.4	794.5	805.1	849.1	909.0	937.2
7617.6	40°	7164.8	5424.3	1652.5	1078.2	873.8	766.3	768.1	801.6	854.4	896.7
8568.9	42.5°	7966.4	6047.9	1782.8	1032.4	857.9	741.7	736.4	759.3	794.5	824.5
9518.4	45°	8729.2	6689.2	1911.4	968.9	838.6	717.0	704.7	713.5	720.5	732.9
10443.3	47.5°	9395.1	7140.2	1874.4	910.8	812.1	688.8	667.7	664.2	643.0	641.3
11269.6	50°	9854.9	7238.8	1664.8	852.7	773.4	657.1	623.6	602.5	565.5	547.9
11887.9	52.5°	10001.2	6849.5	1360.0	794.5	710.0	614.8	567.3	533.8	488.0	472.1
12243.8	55°	9807.4	6086.7	1087.0	724.1	621.9	558.5	505.6	461.6	424.6	405.2
12282.6	57.5°	9333.5	5116.0	859.7	641.3	528.5	495.0	442.2	398.1	366.4	347.1
11852.7	60°	8547.8	4062.5	680.0	542.6	451.0	426.3	371.7	343.5	315.3	292.4
10742.8	62.5°	7355.1	2899.8	533.8	429.9	377.0	348.8	317.1	296.0	262.5	230.8
8746.8	65°	5739.6	1774.0	412.2	315.3	303.0	288.9	269.5	250.2	209.6	177.9
5706.1	67.5°	3620.3	840.3	294.2	237.8	239.6	232.5	223.7	207.9	177.9	149.7
2556.2	70°	1594.3	407.0	193.8	181.5	177.9	177.9	185.0	179.7	151.5	125.1
887.9	72.5°	542.6	218.5	144.5	137.4	128.6	126.8	155.0	149.7	121.6	96.9
442.2	75°	283.6	146.2	105.7	98.7	77.5	93.4	123.3	116.3	86.3	63.4
292.4	77.5°	185.0	103.9	72.2	63.4	44.0	61.7	91.6	81.0	51.1	31.7
192.0	80°	116.3	68.7	42.3	29.9	21.1	33.5	49.3	35.2	19.4	7.0
112.7	82.5°	61.7	35.2	15.9	10.6	8.8	10.6	12.3	8.8	3.5	0.0
58.1	85°	24.7	12.3	5.3	3.5	1.8	0.0	3.5	1.8	0.0	0.0
10.6	87.5°	8.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END O

<u>180°</u>
3484.6
3255.6
2725.3
2031.2
1370.6
1109.9
1081.7
1065.8
1041.2
1016.5
1000.6
988.3
976.0
963.6
954.8
944.3
910.8
836.8
739.9
639.5
549.6
470.4
405.2
343.5
287.2
225.5
172.6
146.2
119.8
91.6
58.1
28.2
5.3
0.0
0.0
0.0
0.0

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