

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: P940638

Luminaire Tested: **GALN-SB3D-750-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940638  
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-SB3D-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

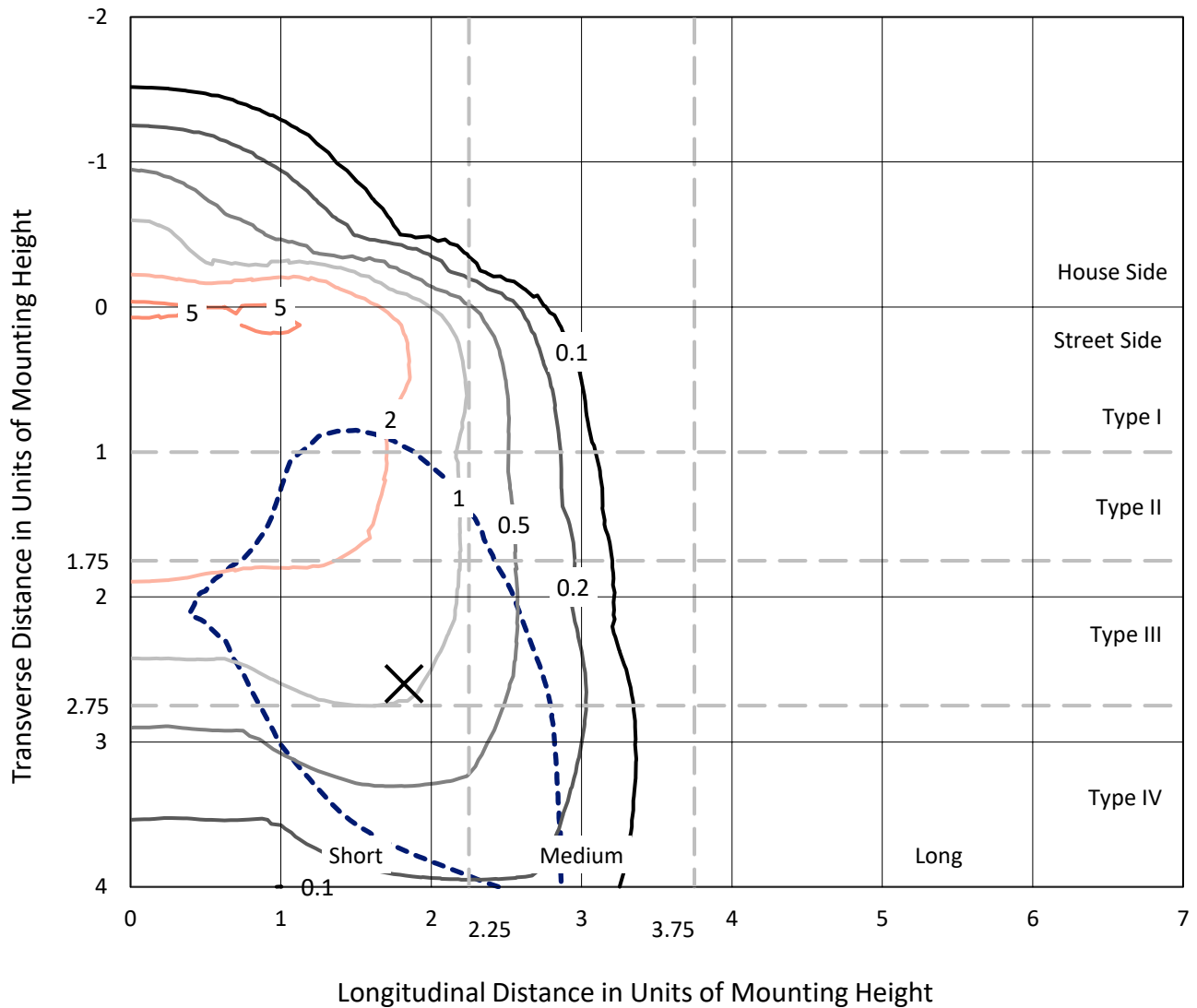
Lumens per Lamp: N/A  
Luminaire Lumens: 24457 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

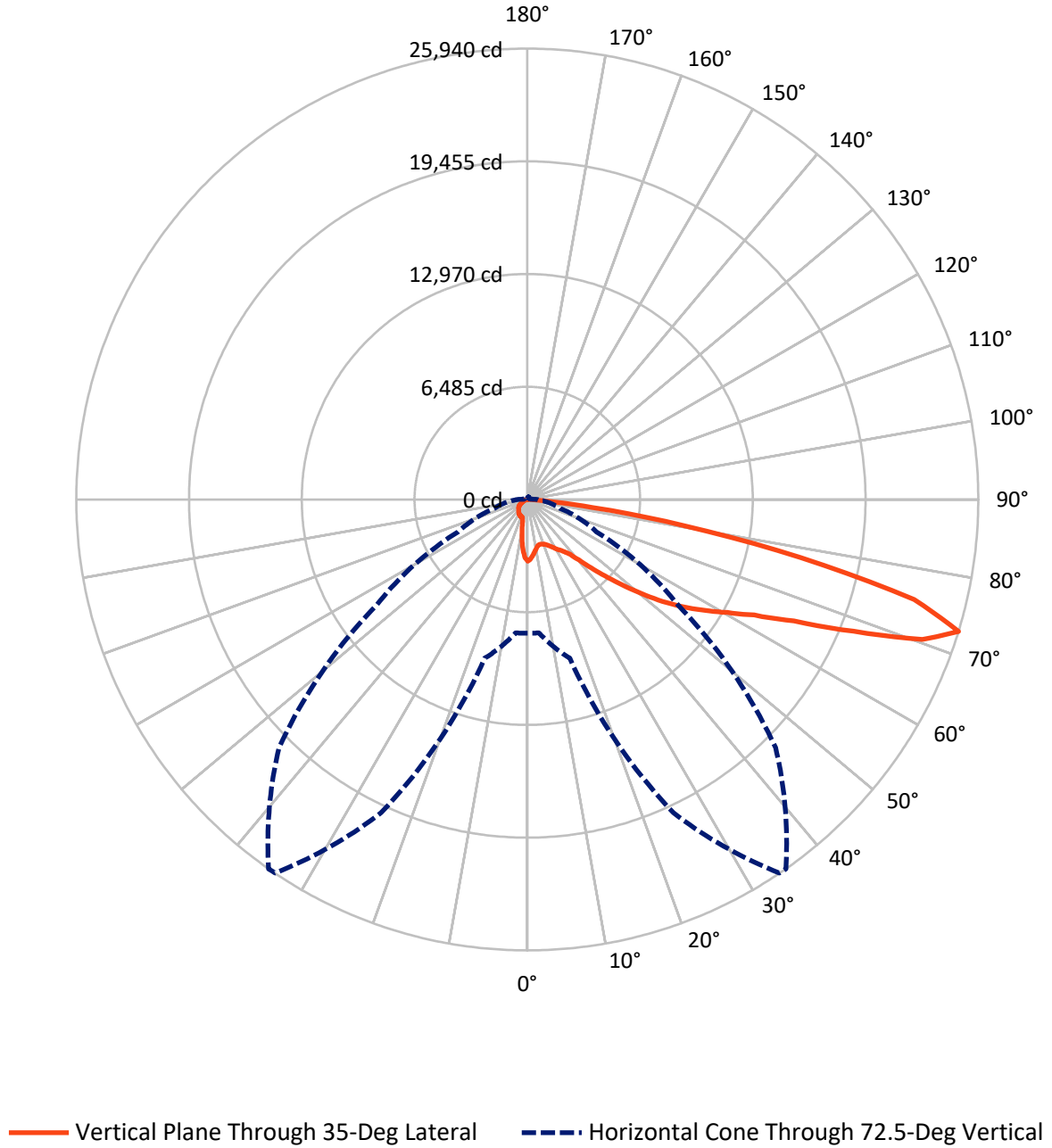
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2752.5	0.0	2752.5
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	21704.5	0.0	21704.5
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	24457.0	0.0	24457.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.3	1.2
10°-20°	681.4	2.8
20°-30°	1106.9	4.5
30°-40°	1846.9	7.6
40°-50°	3494.4	14.3
50°-60°	5552.5	22.7
60°-70°	6868.9	28.1
70°-80°	4269.7	17.5
80°-90°	345.1	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°	24457.0	100.0
0°-180°	24457.0	100.0

**Coefficient of Utilization**



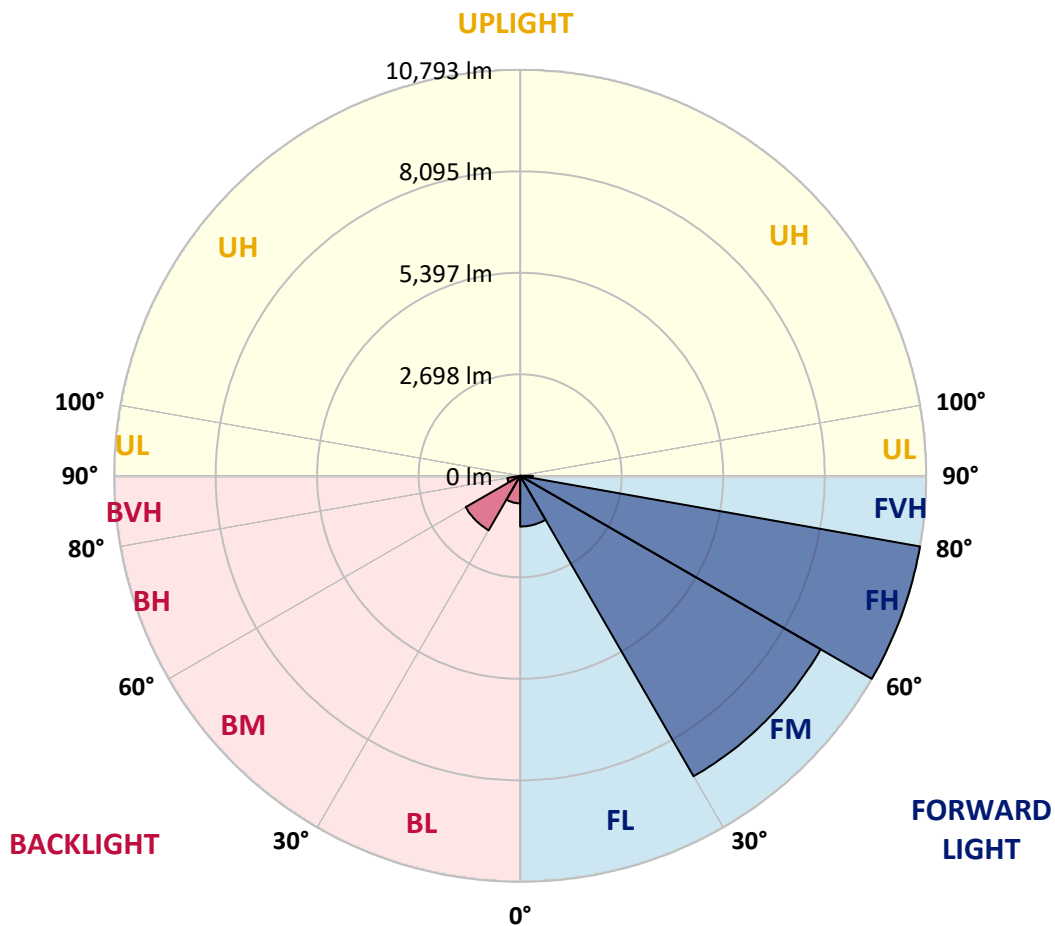
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.2	5.5			
FM (30°-60°)	9222.7	37.7			
FH (60°-80°)	10793.2	44.1			G4/12000
FVH (80°-90°)	340.4	1.4			G3/500
BL (0°-30°)	731.4	3.0	B2/1000		
BM (30°-60°)	1671.0	6.8	B2/2500		
BH (60°-80°)	345.4	1.4	B1/500		G1/500
BVH (80°-90°)	4.7	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°	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6
2.5°	3386.9	3415.6	3421.0	3429.9	3429.9	3440.7	3458.6	3483.7	3524.9	3546.4
5°	3121.7	3143.2	3170.1	3191.6	3232.8	3238.2	3308.1	3376.2	3471.2	3542.8
7.5°	2854.7	2879.8	2915.6	2967.6	3021.4	3037.5	3143.2	3257.9	3408.4	3542.8
10°	2666.5	2668.3	2700.6	2752.6	2838.6	2858.3	2987.3	3150.4	3338.6	3521.3
12.5°	2560.8	2573.4	2587.7	2627.1	2709.6	2722.1	2860.1	3051.8	3268.7	3508.8
15°	2560.8	2569.8	2578.7	2598.4	2664.8	2675.5	2797.4	2989.1	3232.8	3514.2
17.5°	2587.7	2602.0	2594.9	2618.2	2688.0	2695.2	2802.7	2971.2	3231.0	3548.2
20°	2652.2	2663.0	2648.6	2663.0	2732.8	2747.2	2858.3	3005.2	3261.5	3607.4
22.5°	2754.4	2759.7	2725.7	2736.4	2808.1	2826.0	2955.1	3102.0	3335.0	3702.3
25°	2883.4	2894.1	2842.2	2854.7	2922.8	2944.3	3093.0	3247.2	3451.5	3833.2
27.5°	3032.1	3037.5	2992.7	2990.9	3078.7	3109.2	3259.7	3426.4	3607.4	3998.0
30°	3202.4	3218.5	3175.5	3168.3	3279.4	3304.5	3453.2	3646.8	3836.7	4245.3
32.5°	3336.8	3349.3	3324.2	3342.1	3455.0	3474.8	3688.0	3958.6	4196.9	4596.6
35°	3530.3	3537.5	3480.1	3512.4	3641.4	3691.6	4008.8	4395.9	4650.3	5037.4
37.5°	4231.0	4231.0	3987.3	3827.8	3951.4	3996.2	4447.8	4946.0	5209.4	5628.8
40°	5200.5	5184.3	4827.7	4501.6	4485.5	4573.3	5073.2	5639.5	5931.6	6338.4
42.5°	6234.5	6209.4	5723.8	5401.2	5347.4	5377.9	5795.4	6494.3	6791.8	7204.0
45°	7152.0	7144.8	6700.4	6266.7	6170.0	6266.7	6696.8	7494.3	7707.5	8141.2
47.5°	7920.8	7920.8	7596.4	7313.3	7263.1	7320.5	7917.2	8603.5	8583.8	9139.4
50°	8806.0	8798.9	8490.6	8368.8	8420.8	8501.4	9322.2	9772.0	9490.6	10119.6
52.5°	9426.1	9469.1	9363.4	9343.7	9608.9	9748.7	10748.6	10915.3	10302.4	11049.7
55°	9917.1	9967.3	10089.1	10227.1	10737.9	10920.6	12130.3	11999.4	10981.6	11856.1
57.5°	10612.4	10540.7	10728.9	11001.3	11827.4	12047.8	13468.9	13022.7	11528.1	12510.2
60°	11456.5	11467.2	11499.5	11843.5	12915.2	13198.3	14787.8	13990.4	11879.4	12911.6
62.5°	12470.8	12486.9	12553.2	13081.8	14375.7	14642.7	16192.8	14782.5	12040.7	12798.7
65°	12400.9	12469.0	13209.1	15017.2	16596.0	16859.4	17832.5	15338.0	11796.9	11766.5
67.5°	11297.0	11408.1	12646.4	17328.9	19943.5	20237.4	19814.5	15447.3	10745.0	9150.1
70°	9849.0	9888.4	11377.6	19407.7	23819.7	24117.2	21588.6	14244.9	8153.7	5103.7
72.5°	7691.4	7700.4	9447.6	19889.8	25923.5	25939.7	20196.2	10574.8	4385.1	1960.5
75°	5494.4	5440.6	6327.7	16130.1	22807.2	22990.0	15140.9	4960.3	1675.5	926.5
77.5°	2946.1	3005.2	3580.5	9565.9	15755.5	16067.4	8261.3	1430.0	853.0	630.8
80°	910.4	960.5	1467.7	4379.7	8924.3	9112.5	3062.6	636.2	595.0	449.8
82.5°	286.7	297.5	684.6	1840.4	3704.1	3790.1	887.1	360.2	406.8	297.5
85°	82.4	84.2	304.6	686.3	915.7	933.6	249.1	139.8	233.0	184.6
87.5°	9.0	28.7	114.7	114.7	80.6	78.8	26.9	30.5	66.3	23.3
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°
3544.6	0°	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6	3544.6
3560.8	2.5°	3551.8	3553.6	3530.3	3490.9	3447.9	3412.0	3367.2	3331.4	3306.3	3299.1
3593.0	5°	3576.9	3564.4	3498.0	3378.0	3234.6	3111.0	2973.0	2863.7	2792.0	2761.5
3627.1	7.5°	3614.5	3578.7	3433.5	3197.0	2922.8	2679.1	2431.8	2240.0	2118.2	2057.3
3659.3	10°	3646.8	3575.1	3326.0	2935.3	2516.0	2146.9	1813.5	1582.4	1453.3	1392.4
3697.0	12.5°	3677.2	3573.3	3186.2	2625.3	2057.3	1605.7	1295.6	1180.9	1145.1	1132.6
3757.9	15°	3734.6	3578.7	3010.6	2270.5	1600.3	1213.2	1100.3	1098.5	1105.7	1102.1
3851.1	17.5°	3813.4	3584.1	2811.7	1894.2	1234.7	1069.8	1064.5	1080.6	1091.3	1086.0
3967.6	20°	3915.6	3605.6	2600.2	1521.4	1060.9	1034.0	1046.5	1060.9	1069.8	1060.9
4123.5	22.5°	4059.0	3643.2	2369.1	1222.2	1005.3	1012.5	1023.3	1039.4	1048.3	1035.8
4322.4	25°	4234.6	3702.3	2141.5	1062.7	978.4	987.4	1003.5	1021.5	1032.2	1019.7
4573.3	27.5°	4462.2	3797.3	1931.8	1026.8	951.6	956.9	980.2	1007.1	1021.5	1005.3
4929.9	30°	4791.9	3953.2	1750.8	1043.0	935.4	922.9	955.2	992.8	1008.9	994.6
5415.5	32.5°	5229.1	4173.6	1639.7	1068.1	928.3	883.5	913.9	962.3	989.2	980.2
6049.9	35°	5802.6	4508.8	1596.7	1096.7	922.9	842.3	863.8	915.7	962.3	971.3
6849.1	37.5°	6497.9	4974.7	1609.2	1109.3	906.8	808.2	819.0	863.8	924.7	953.4
7748.7	40°	7288.2	5517.7	1680.9	1096.7	888.8	779.5	781.3	815.4	869.1	912.1
8716.4	42.5°	8103.6	6152.0	1813.5	1050.1	872.7	754.4	749.1	772.4	808.2	838.7
9682.3	45°	8879.5	6804.3	1944.4	985.6	853.0	729.4	716.8	725.8	732.9	745.5
10623.2	47.5°	9556.9	7263.1	1906.7	926.5	826.1	700.7	679.2	675.6	654.1	652.3
11463.6	50°	10024.6	7363.5	1693.5	867.3	786.7	668.4	634.4	612.9	575.2	557.3
12092.6	52.5°	10173.4	6967.4	1383.4	808.2	722.2	625.4	577.0	543.0	496.4	480.3
12454.6	55°	9976.2	6191.5	1105.7	736.5	632.6	568.1	514.3	469.5	431.9	412.2
12494.0	57.5°	9494.2	5204.1	874.5	652.3	537.6	503.6	449.8	405.0	372.7	353.0
12056.8	60°	8694.9	4132.4	691.7	551.9	458.8	433.7	378.1	349.4	320.8	297.5
10927.8	62.5°	7481.7	2949.7	543.0	437.3	383.5	354.8	322.6	301.1	267.0	234.8
8897.4	65°	5838.4	1804.6	419.3	320.8	308.2	293.9	274.2	254.5	213.3	181.0
5804.4	67.5°	3682.6	854.8	299.3	241.9	243.7	236.5	227.6	211.5	181.0	152.3
2600.2	70°	1621.8	414.0	197.1	184.6	181.0	181.0	188.2	182.8	154.1	127.2
903.2	72.5°	551.9	222.2	146.9	139.8	130.8	129.0	157.7	152.3	123.7	98.6
449.8	75°	288.5	148.7	107.5	100.4	78.8	95.0	125.4	118.3	87.8	64.5
297.5	77.5°	188.2	105.7	73.5	64.5	44.8	62.7	93.2	82.4	52.0	32.3
195.3	80°	118.3	69.9	43.0	30.5	21.5	34.0	50.2	35.8	19.7	7.2
114.7	82.5°	62.7	35.8	16.1	10.8	9.0	10.8	12.5	9.0	3.6	0.0
59.1	85°	25.1	12.5	5.4	3.6	1.8	0.0	3.6	1.8	0.0	0.0
10.8	87.5°	9.0	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>
3544.6
3311.7
2772.3
2066.2
1394.2
1129.0
1100.3
1084.2
1059.1
1034.0
1017.9
1005.3
992.8
980.2
971.3
960.5
926.5
851.2
752.7
650.5
559.1
478.5
412.2
349.4
292.1
229.4
175.6
148.7
121.9
93.2
59.1
28.7
5.4
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