

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: P950541

Luminaire Tested: **GALN-SB4D-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28316 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

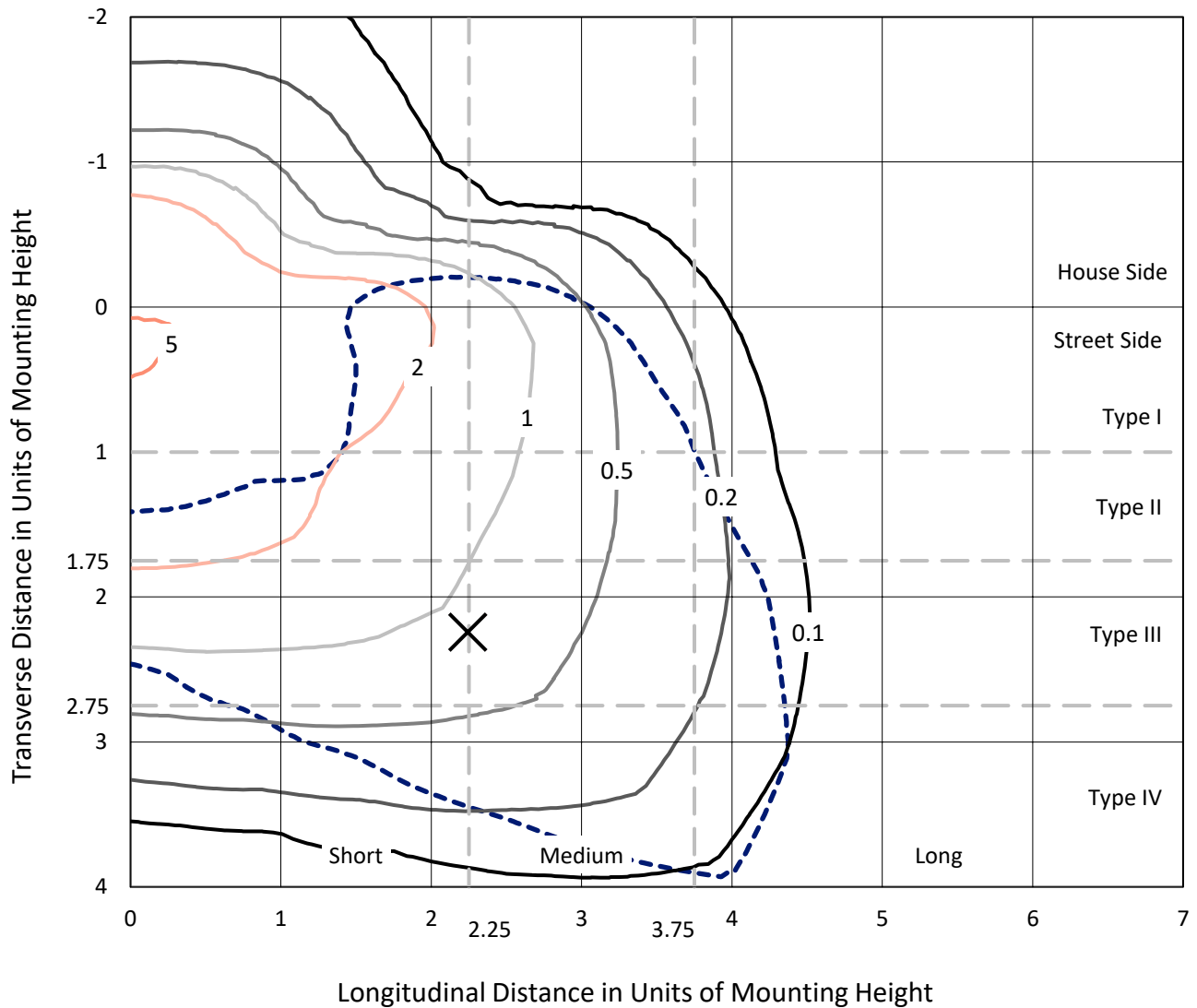
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

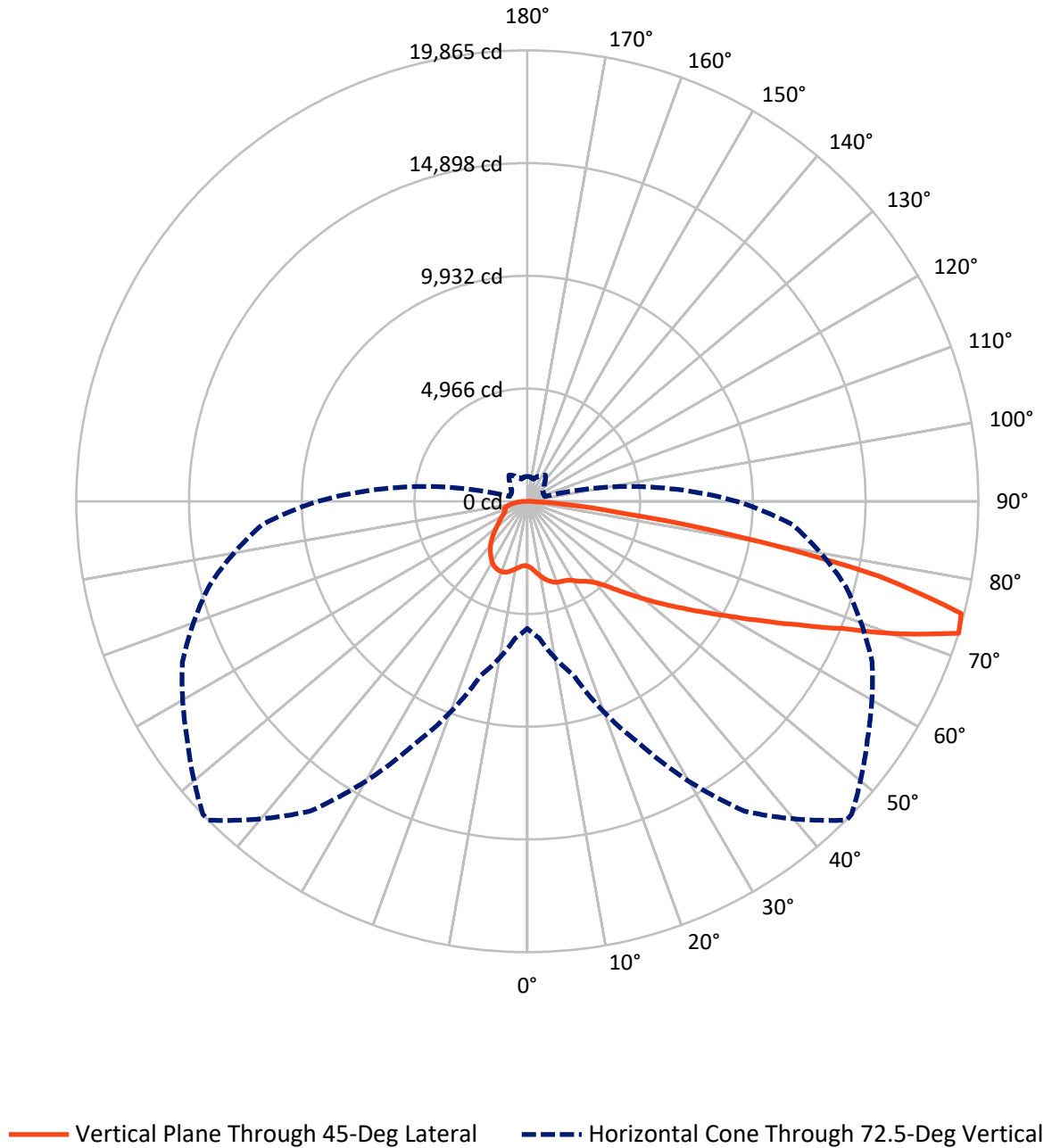
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	6401.3	0.0	6401.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21914.7	0.0	21914.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	28316.0	0.0	28316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.7	1.0
10°-20°	969.4	3.4
20°-30°	1686.3	6.0
30°-40°	2417.3	8.5
40°-50°	3403.8	12.0
50°-60°	5213.6	18.4
60°-70°	7552.6	26.7
70°-80°	6031.2	21.3
80°-90°	751.2	2.7
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°	28316.0	100.0
0°-180°	28316.0	100.0



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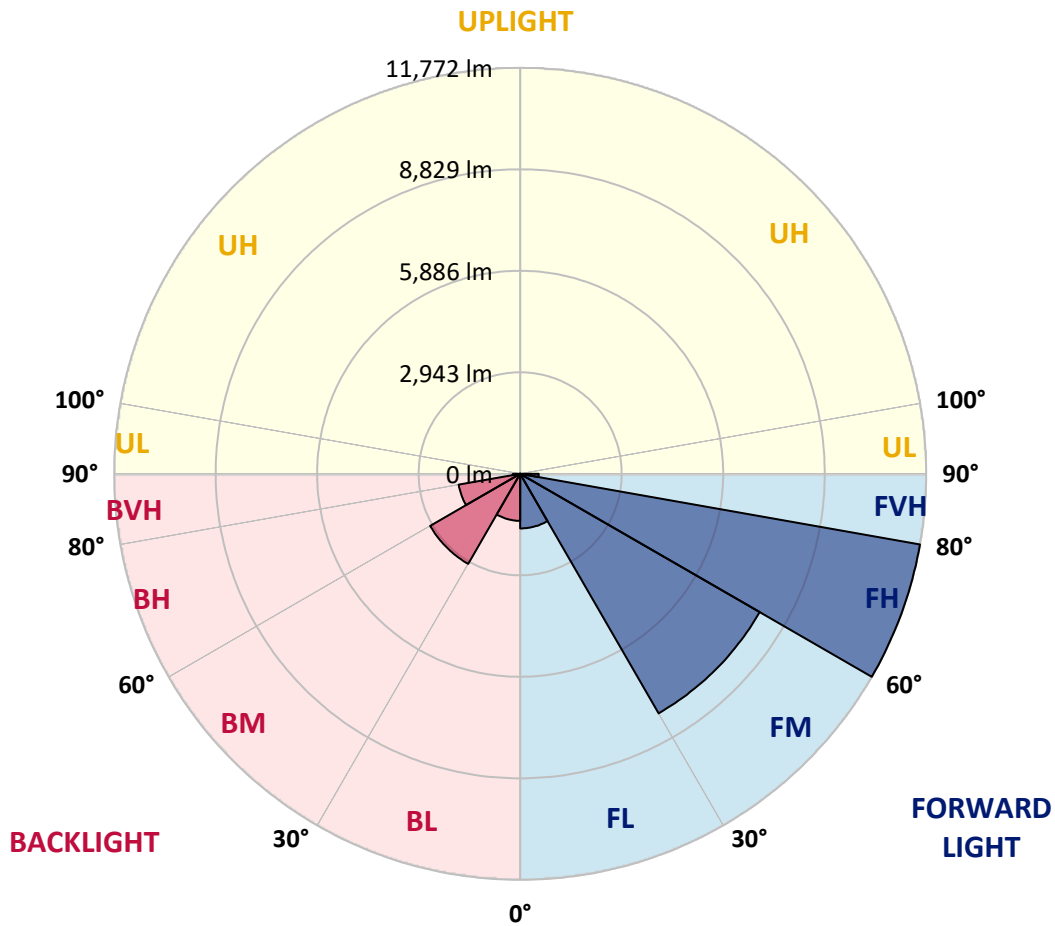
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1583.5	5.6			
FM (30°-60°)	8020.6	28.3			
FH (60°-80°)	11771.8	41.6			G4/12000
FVH (80°-90°)	538.9	1.9			G4/750
BL (0°-30°)	1362.9	4.8	B3/2500		
BM (30°-60°)	3014.1	10.6	B3/5000		
BH (60°-80°)	1812.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	212.3	0.7			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°	35°	45°	46°	55°	65°	75°
0°	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5
2.5°	2968.4	2987.8	2969.9	2953.5	2946.0	2926.6	2925.1	2913.2	2905.8	2884.9
5°	3175.7	3201.1	3171.3	3138.5	3108.6	3060.9	3054.9	3020.6	2981.8	2937.1
7.5°	3409.9	3432.3	3398.0	3348.8	3296.6	3217.5	3216.0	3153.4	3092.2	3016.1
10°	3614.3	3644.1	3597.9	3530.8	3465.1	3375.6	3365.2	3293.6	3216.0	3117.6
12.5°	3794.8	3815.7	3770.9	3688.9	3612.8	3523.3	3509.9	3430.8	3344.3	3232.4
15°	3938.0	3964.8	3905.2	3817.2	3736.6	3648.6	3636.7	3565.1	3478.6	3360.7
17.5°	4032.0	4054.3	3993.2	3894.7	3817.2	3744.1	3735.1	3675.5	3599.4	3480.0
20°	4067.8	4091.6	4027.5	3927.5	3855.9	3799.3	3794.8	3751.5	3699.3	3590.4
22.5°	4103.6	4125.9	4042.4	3938.0	3875.3	3839.5	3838.0	3809.7	3788.8	3699.3
25°	4248.3	4254.2	4142.3	3991.7	3902.2	3870.9	3869.4	3867.9	3876.8	3806.7
27.5°	4373.6	4372.1	4276.6	4134.9	3996.2	3930.5	3929.0	3944.0	3972.3	3914.1
30°	4557.0	4540.6	4427.3	4279.6	4152.8	4051.4	4042.4	4029.0	4051.4	4005.1
32.5°	4946.4	4894.1	4710.7	4448.1	4282.6	4205.0	4193.1	4109.5	4118.5	4090.1
35°	5504.2	5435.6	5191.0	4767.4	4443.7	4333.3	4327.3	4221.4	4203.5	4178.1
37.5°	6168.0	6083.0	5798.1	5229.8	4721.1	4482.4	4473.5	4378.0	4304.9	4278.1
40°	6834.8	6727.4	6491.7	5793.6	5129.8	4731.6	4703.2	4558.5	4475.0	4430.2
42.5°	7482.2	7392.7	7191.3	6426.1	5634.0	5095.5	5032.9	4785.3	4722.6	4680.8
45°	8055.0	7974.4	7826.8	7101.8	6224.7	5590.8	5529.6	5125.4	5106.0	5106.0
47.5°	8520.4	8502.5	8345.9	7791.0	6921.3	6154.6	6048.7	5598.2	5650.4	5731.0
50°	9036.5	8987.3	8820.2	8469.7	7740.2	6800.5	6714.0	6178.5	6373.9	6594.6
52.5°	9510.8	9537.7	9351.2	9176.7	8665.1	7521.0	7368.8	6863.1	7285.3	7650.7
55°	9998.6	10000.1	9947.9	9924.0	9634.6	8317.5	8150.4	7686.5	8357.8	8811.2
57.5°	10456.6	10459.5	10537.1	10747.4	10759.4	9236.4	9046.9	8697.9	9549.6	10012.0
60°	10865.3	10886.2	11098.0	11590.2	11748.3	10289.5	10110.5	9892.7	10781.7	11247.1
62.5°	11002.5	11078.6	11549.9	12249.5	12725.4	11581.3	11405.2	11275.5	12076.5	12509.1
65°	10769.8	10944.3	11855.7	12794.0	13730.8	13116.2	12941.7	12800.0	13422.0	13829.2
67.5°	10198.5	10423.7	11837.8	13365.3	14950.9	14962.9	14800.3	14467.6	14864.4	15021.0
70°	8693.4	9030.5	10795.2	13578.6	16351.6	17488.2	17331.6	16475.4	16303.9	15546.1
72.5°	5601.2	6054.7	7949.1	11822.9	16663.4	19864.5	19855.5	18287.8	16758.8	14525.8
75°	2043.6	2321.0	3693.4	7421.0	13987.3	19743.6	19801.8	17977.5	15298.5	11220.3
77.5°	744.3	814.4	1205.3	2852.1	8602.4	15841.5	15962.3	14372.2	10889.1	5631.0
80°	390.8	429.6	617.5	1106.8	3685.9	9407.9	9597.4	8541.3	5117.9	1696.0
82.5°	216.3	234.2	346.1	601.1	1660.2	4023.0	4136.4	3374.1	1800.4	719.0
85°	116.3	123.8	162.6	328.2	811.5	1394.7	1426.0	1008.4	717.5	422.1
87.5°	34.3	41.8	53.7	104.4	317.7	313.2	320.7	199.9	283.4	213.3
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°
2856.5	0°	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5	2856.5
2878.9	2.5°	2870.0	2865.5	2849.1	2841.6	2832.7	2831.2	2838.6	2840.1	2841.6	2843.1
2911.7	5°	2896.8	2881.9	2867.0	2858.0	2861.0	2862.5	2877.4	2887.9	2895.3	2901.3
2972.9	7.5°	2949.0	2937.1	2911.7	2910.2	2914.7	2928.1	2947.5	2971.4	2984.8	2995.3
3051.9	10°	3026.6	3004.2	2974.4	2978.8	2987.8	3007.2	3047.5	3066.9	3089.2	3108.6
3148.9	12.5°	3105.6	3086.2	3051.9	3054.9	3069.8	3104.1	3142.9	3166.8	3181.7	3196.6
3253.3	15°	3208.6	3174.3	3137.0	3137.0	3163.8	3201.1	3219.0	3238.4	3247.3	3263.8
3365.2	17.5°	3314.5	3269.7	3220.5	3217.5	3250.3	3268.2	3278.7	3281.7	3284.6	3302.5
3474.1	20°	3420.4	3371.2	3301.0	3295.1	3302.5	3299.6	3298.1	3295.1	3299.6	3321.9
3586.0	22.5°	3524.8	3468.1	3371.2	3344.3	3323.4	3295.1	3293.6	3292.1	3295.1	3317.5
3706.8	25°	3647.1	3578.5	3448.7	3368.2	3298.1	3259.3	3263.8	3265.2	3268.2	3286.1
3832.1	27.5°	3779.9	3703.8	3520.3	3360.7	3233.9	3207.1	3199.6	3204.1	3214.5	3242.9
3957.4	30°	3912.6	3823.1	3586.0	3330.9	3153.4	3116.1	3092.2	3102.7	3135.5	3163.8
4066.3	32.5°	4033.5	3944.0	3638.2	3265.2	3050.4	2992.3	2960.9	2974.4	3007.2	3017.6
4187.1	35°	4175.2	4073.7	3660.5	3160.8	2938.6	2849.1	2807.3	2787.9	2804.3	2793.9
4328.8	37.5°	4333.3	4227.4	3657.6	3023.6	2807.3	2704.4	2646.2	2573.1	2538.8	2503.0
4537.6	40°	4567.5	4415.3	3621.8	2858.0	2644.7	2550.7	2446.3	2322.5	2245.0	2174.8
4874.8	42.5°	4886.7	4676.4	3556.1	2676.0	2461.2	2373.2	2231.5	2086.8	1964.5	1848.2
5386.4	45°	5362.5	5018.0	3474.1	2482.1	2262.9	2176.3	2022.7	1860.1	1721.4	1572.2
6112.8	47.5°	6048.7	5477.4	3396.5	2261.4	2054.0	1975.0	1836.2	1685.6	1521.5	1376.8
7163.0	50°	6991.4	6136.7	3324.9	2046.6	1848.2	1788.5	1678.1	1524.5	1358.9	1242.6
8393.6	52.5°	8190.7	7033.2	3295.1	1839.2	1655.7	1633.4	1545.4	1402.2	1245.5	1147.1
9828.6	55°	9567.5	8105.7	3295.1	1640.8	1487.2	1494.6	1433.5	1300.7	1165.0	1077.0
11308.3	57.5°	10972.7	9191.6	3235.4	1457.4	1344.0	1375.3	1336.5	1220.2	1097.9	1006.9
12864.1	60°	12267.4	10101.5	2993.8	1290.3	1217.2	1266.4	1241.1	1141.1	992.0	915.9
14164.8	62.5°	13262.4	10614.7	2528.4	1157.5	1112.8	1169.5	1156.0	1036.7	972.6	941.2
15232.9	65°	13760.6	10531.1	1933.2	1039.7	1024.8	1112.8	1084.4	1080.0	1029.2	993.4
15580.4	67.5°	13454.8	9812.2	1402.2	953.2	974.1	1060.6	1169.5	1187.4	1093.4	1023.3
14601.9	70°	12113.8	8511.4	1044.2	871.1	909.9	1062.1	1333.5	1242.6	1072.5	990.5
11711.0	72.5°	9215.5	6347.0	810.0	784.6	826.4	1069.5	1406.6	1217.2	1012.8	1094.9
7295.7	75°	5270.0	3484.5	650.4	678.7	722.0	999.4	1369.3	1151.6	966.6	1005.4
2890.8	77.5°	2009.3	1339.5	537.0	574.3	580.3	872.6	1309.7	1147.1	920.4	898.0
866.7	80°	696.6	523.6	444.5	456.4	449.0	775.7	1256.0	997.9	753.3	674.2
358.0	82.5°	284.9	261.0	352.0	337.1	319.2	602.6	1014.3	815.9	616.1	544.5
173.0	85°	123.8	165.6	232.7	204.4	185.0	417.7	813.0	690.6	520.6	449.0
56.7	87.5°	25.4	62.6	98.4	92.5	95.5	278.9	577.3	490.8	368.4	276.0
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>
2856.5
2849.1
2904.3
2998.2
3104.1
3202.6
3269.7
3308.5
3330.9
3332.4
3310.0
3271.2
3195.1
3054.9
2826.7
2525.4
2179.3
1837.7
1554.3
1360.4
1235.1
1139.6
1068.0
992.0
903.9
930.8
981.5
1011.3
977.0
<i>1085.9</i>
1005.4
818.9
651.9
538.5
447.5
216.3
0.0

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