

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: P941177

Luminaire Tested: **GALN-SB4C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26988 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

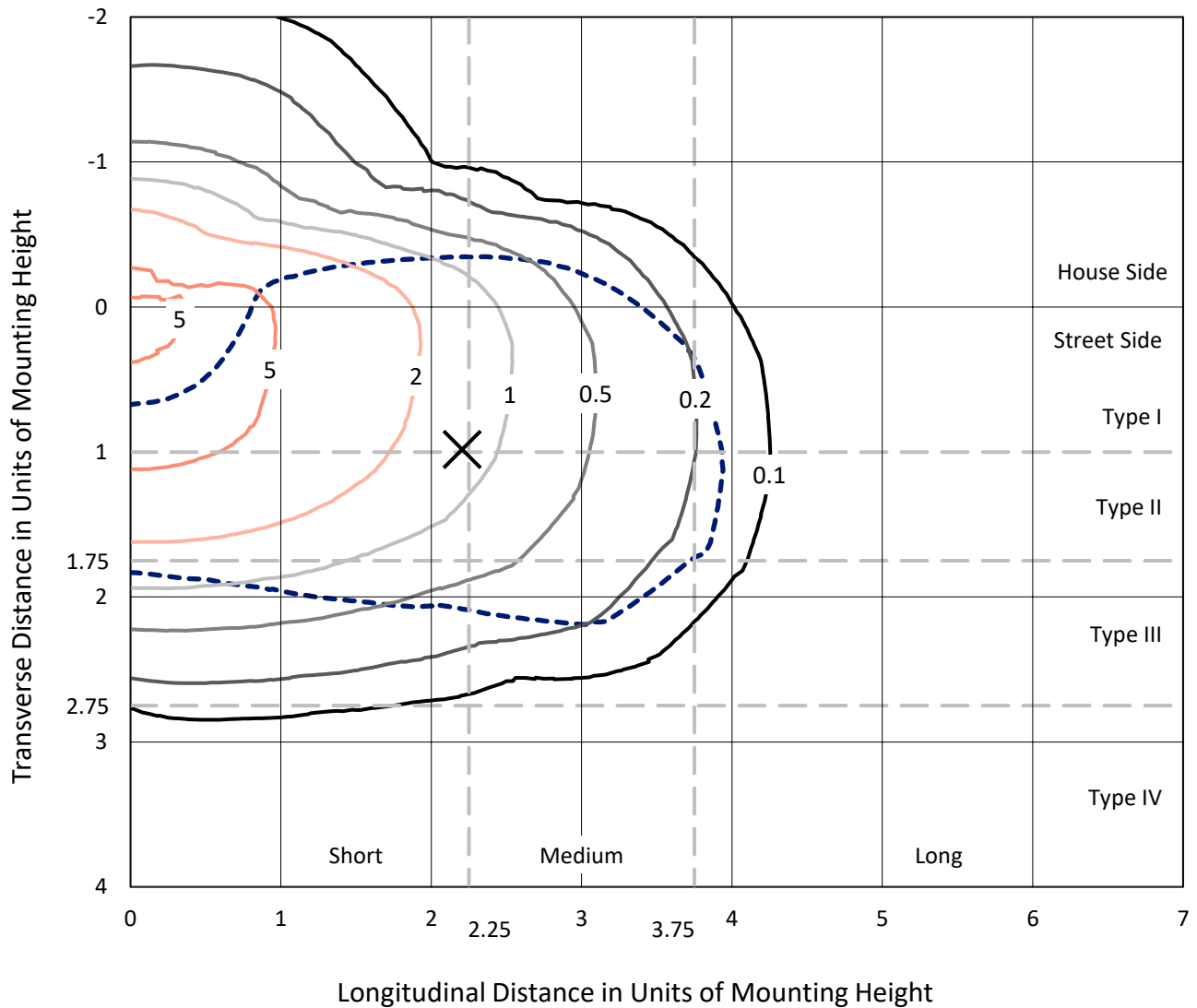
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941177
 CATALOG NUMBER: GALN-SB4C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

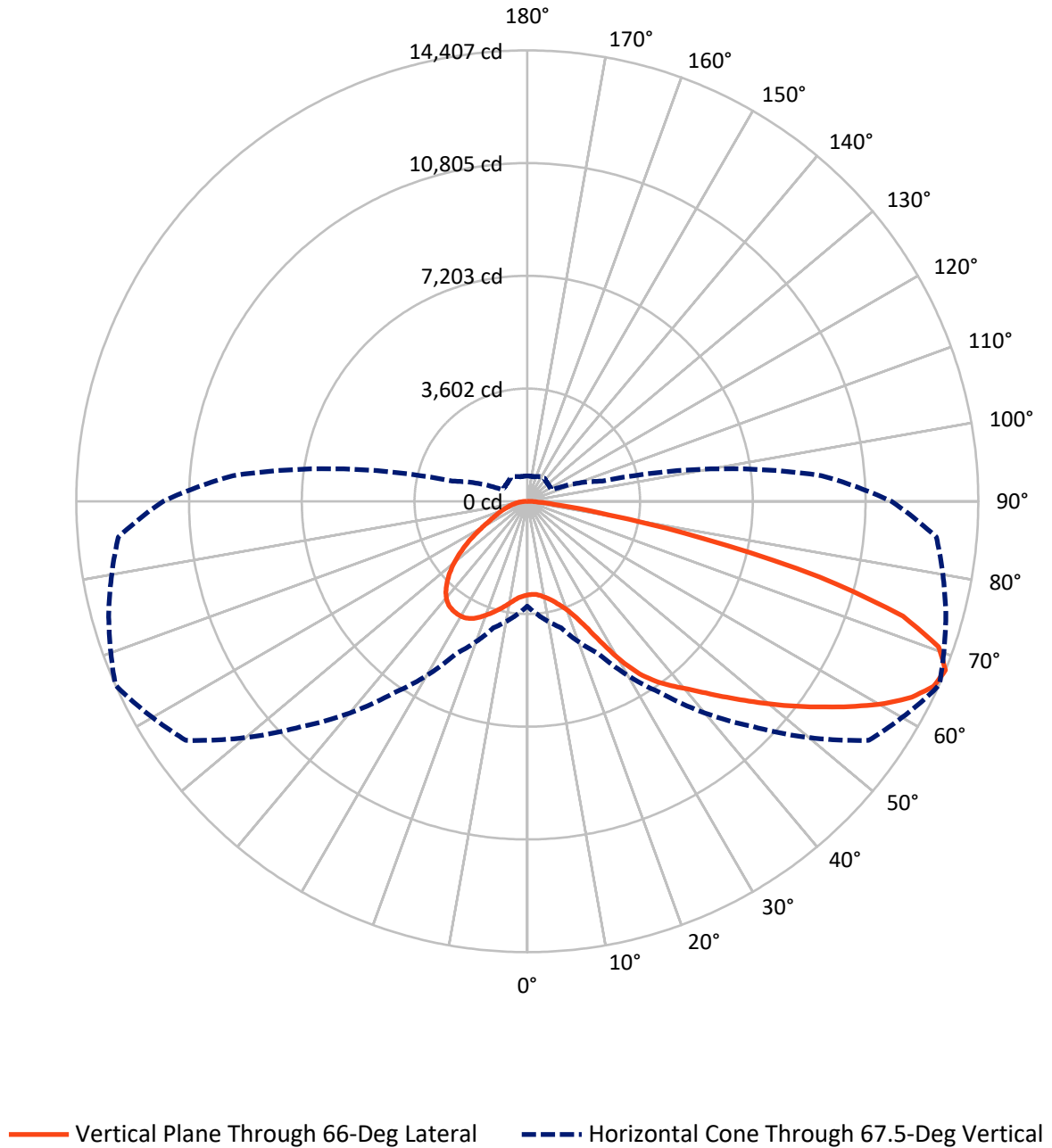
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P941177
CATALOG NUMBER: GALN-SB4C-830-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6710.5	0.0	6710.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20277.5	0.0	20277.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	26988.0	0.0	26988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.8	1.1
10°-20°	980.5	3.6
20°-30°	1889.9	7.0
30°-40°	3313.7	12.3
40°-50°	4926.3	18.3
50°-60°	6244.6	23.1
60°-70°	6110.2	22.6
70°-80°	2914.6	10.8
80°-90°	311.5	1.2
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°	26988.0	100.0
0°-180°	26988.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941177

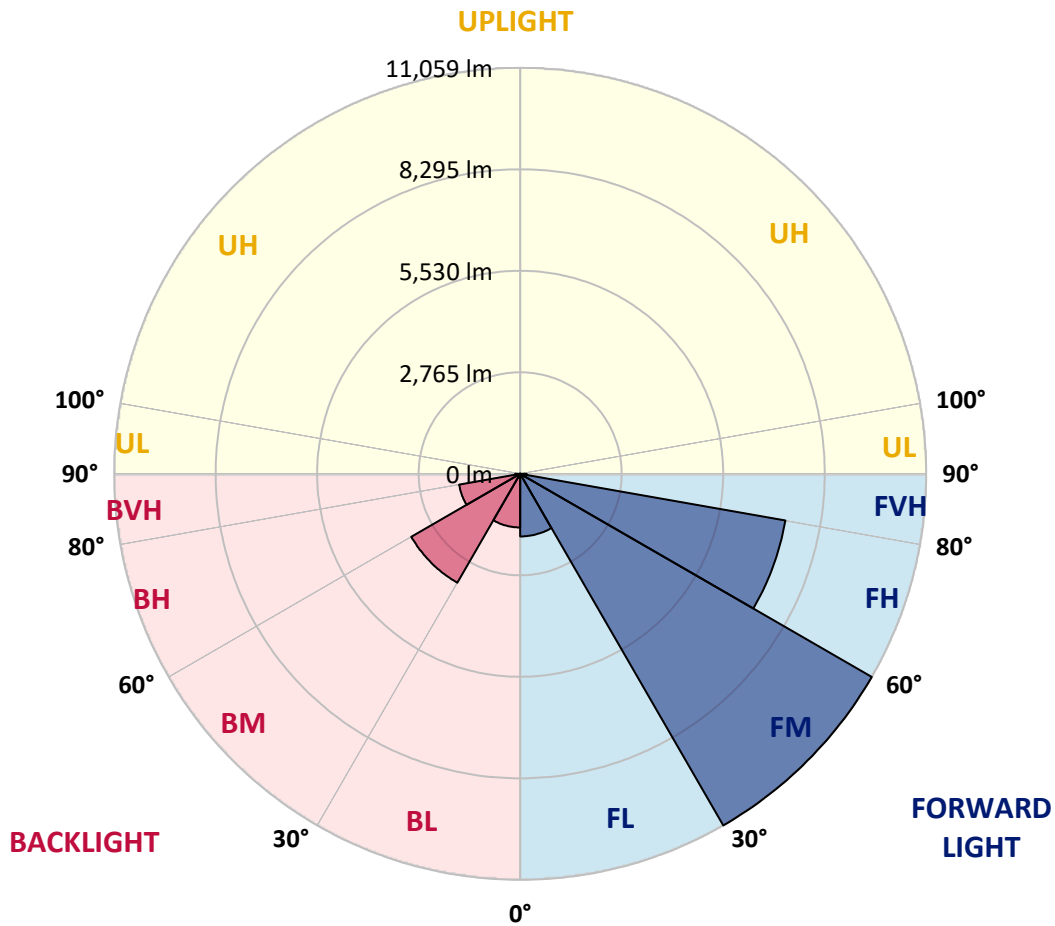
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.4	6.3			
FM (30°-60°)	11059.5	41.0			
FH (60°-80°)	7336.1	27.2			G3/7500
FVH (80°-90°)	176.6	0.7			G2/225
BL (0°-30°)	1461.8	5.4	B3/2500		
BM (30°-60°)	3425.1	12.7	B3/5000		
BH (60°-80°)	1688.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	134.9	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-G3

Type III Short



REPORT NUMBER: P941177
 CATALOG NUMBER: GALN-SB4C-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3
2.5°	2962.1	2979.1	2974.9	2967.8	2966.4	2969.2	2973.5	2977.7	2976.3	2983.4
5°	2953.6	2970.6	2969.2	2969.2	2974.9	2986.2	2993.3	3000.4	2993.3	3001.8
7.5°	2959.3	2972.1	2977.7	2983.4	2997.6	3018.8	3035.9	3051.5	3043.0	3052.9
10°	3031.6	3041.5	3047.2	3047.2	3057.1	3081.2	3098.3	3126.6	3119.5	3135.1
12.5°	3163.5	3173.4	3173.4	3167.7	3174.8	3190.4	3196.1	3227.3	3214.5	3240.1
15°	3325.1	3345.0	3329.4	3319.5	3322.3	3337.9	3336.5	3360.6	3347.8	3369.1
17.5°	3503.8	3529.3	3503.8	3502.4	3496.7	3513.7	3515.1	3536.4	3513.7	3529.3
20°	3715.1	3750.5	3729.3	3736.3	3723.6	3730.7	3737.8	3769.0	3733.5	3744.8
22.5°	4012.8	4055.4	4032.7	4059.6	4051.1	4045.5	4044.0	4099.3	4044.0	4048.3
25°	4446.7	4497.8	4458.1	4495.0	4495.0	4513.4	4534.7	4605.6	4513.4	4486.4
27.5°	5087.7	5138.7	5060.7	5083.4	5076.3	5121.7	5099.0	5274.8	5175.6	5131.6
30°	5859.0	5949.8	5802.3	5796.6	5789.6	5861.9	5894.5	6010.8	5910.1	5866.1
32.5°	6692.8	6787.8	6612.0	6560.9	6534.0	6577.9	6551.0	6644.6	6575.1	6507.0
35°	7574.8	7668.4	7501.0	7401.8	7294.0	7201.8	7105.4	7129.5	7064.3	6960.8
37.5°	8408.5	8580.1	8402.9	8296.5	8098.0	7917.9	7648.5	7536.5	7475.5	7380.5
40°	9257.9	9355.7	9221.0	9130.3	8914.8	8632.6	8201.5	7964.7	7882.5	7790.3
42.5°	9883.2	9976.8	9904.5	9842.1	9673.4	9345.8	8788.6	8492.2	8373.1	8269.6
45°	10379.5	10449.0	10403.6	10426.3	10354.0	10036.4	9396.9	9058.0	8934.6	8808.4
47.5°	10579.4	10653.2	10725.5	10860.2	10983.6	10749.6	10050.5	9670.5	9540.1	9411.0
50°	10556.8	10631.9	10841.8	11128.2	11511.0	11433.1	10739.7	10322.8	10202.3	10054.8
52.5°	10375.3	10460.3	10729.7	11206.2	11815.9	11944.9	11441.6	10996.3	10882.9	10707.1
55°	9898.8	9949.9	10354.0	11028.9	11888.2	12302.3	12129.3	11713.8	11600.4	11355.1
57.5°	9015.4	9089.2	9677.6	10551.1	11706.7	12544.7	12733.3	12468.2	12359.0	12005.9
60°	7862.6	7980.3	8653.8	9748.5	11244.5	12543.3	13282.1	13209.8	13119.0	12646.8
62.5°	6558.1	6694.2	7342.2	8614.1	10436.2	12187.4	13625.2	13830.8	13784.0	13238.1
65°	5036.6	5130.2	5775.4	7146.5	9178.5	11423.1	13664.9	14254.8	14263.3	13687.6
67.5°	3353.5	3622.9	4183.0	5362.7	7493.9	10173.9	13316.1	14324.3	14406.5	13842.2
70°	1636.3	1990.8	2539.6	3485.4	5362.7	8258.2	12404.4	13754.3	13937.2	13391.3
72.5°	679.2	794.1	1093.3	1720.0	3078.4	5572.6	10572.4	12208.7	12547.6	11865.5
75°	458.0	496.3	625.3	882.0	1402.4	2748.0	7624.4	9103.3	9649.3	8961.5
77.5°	353.1	377.2	455.2	616.8	833.8	1039.4	4080.9	5486.1	5768.3	5340.1
80°	277.9	296.4	340.3	449.5	591.3	555.8	1391.0	2485.7	2648.8	2222.0
82.5°	241.1	248.1	243.9	304.9	392.8	324.7	456.6	917.4	1012.4	734.5
85°	174.4	194.3	202.8	188.6	208.4	164.5	187.2	324.7	357.3	319.0
87.5°	70.9	104.9	129.0	121.9	76.6	46.8	58.1	95.0	109.2	119.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941177
 CATALOG NUMBER: GALN-SB4C-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2993.3	0°	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3	2993.3
2994.7	2.5°	2996.2	3006.1	3013.2	3021.7	3027.4	3035.9	3052.9	3062.8	3064.2	3071.3
3017.4	5°	3023.1	3037.3	3052.9	3075.6	3101.1	3122.4	3155.0	3177.7	3186.2	3193.3
3072.7	7.5°	3081.2	3101.1	3129.5	3169.2	3206.0	3234.4	3274.1	3301.0	3328.0	3337.9
3160.6	10°	3167.7	3196.1	3237.2	3291.1	3330.8	3367.7	3408.8	3431.5	3458.4	3469.8
3265.6	12.5°	3275.5	3305.3	3359.2	3434.3	3471.2	3496.7	3510.9	3505.2	3510.9	3520.8
3391.8	15°	3398.9	3431.5	3492.4	3573.3	3598.8	3576.1	3544.9	3516.6	3512.3	3515.1
3544.9	17.5°	3544.9	3569.0	3639.9	3708.0	3689.5	3596.0	3527.9	3482.5	3459.8	3452.7
3740.6	20°	3749.1	3749.1	3807.2	3849.8	3726.4	3567.6	3461.3	3387.5	3340.7	3320.9
4007.2	22.5°	3997.2	3974.6	4011.4	3981.6	3719.3	3488.2	3340.7	3213.1	3142.2	3113.9
4380.1	25°	4312.0	4285.1	4275.2	4090.8	3668.3	3362.0	3122.4	2967.8	2905.4	2889.8
4917.5	27.5°	4787.1	4719.0	4590.0	4150.4	3574.7	3163.5	2867.1	2723.9	2688.5	2689.9
5608.1	30°	5419.5	5283.3	4967.1	4160.3	3421.6	2882.7	2606.2	2504.1	2487.1	2494.2
6188.0	32.5°	6005.1	5876.1	5352.8	4114.9	3186.2	2607.6	2372.3	2304.2	2278.7	2287.2
6630.4	35°	6464.5	6429.1	5710.1	4051.1	2896.9	2349.6	2162.4	2104.3	2054.6	2043.3
7047.3	37.5°	6898.4	6884.2	5978.1	3961.8	2610.5	2166.7	1993.7	1917.1	1844.8	1805.1
7508.1	40°	7374.8	7360.7	6154.0	3824.3	2356.7	2007.8	1841.9	1741.3	1651.9	1579.6
8029.9	42.5°	7910.8	7827.2	6237.6	3627.2	2141.1	1873.1	1718.6	1582.4	1464.8	1398.1
8619.8	45°	8496.5	8307.9	6236.2	3376.2	1959.6	1749.8	1586.7	1393.9	1284.7	1222.3
9225.3	47.5°	9117.5	8767.3	6159.6	3098.3	1783.8	1613.6	1382.5	1235.0	1162.7	1124.4
9883.2	50°	9758.4	9196.9	6029.2	2779.2	1603.7	1459.1	1254.9	1154.2	1098.9	1063.5
10535.5	52.5°	10361.1	9586.9	5871.8	2417.6	1420.8	1308.8	1198.2	1120.2	1062.1	1022.4
11167.9	55°	10921.2	9922.9	5649.2	2047.5	1271.9	1208.1	1171.2	1106.0	1039.4	992.6
11810.2	57.5°	11418.9	10141.3	5264.9	1700.1	1165.6	1138.6	1142.9	1081.9	1005.3	965.6
12442.7	60°	11832.9	10301.5	4696.3	1378.3	1079.1	1070.6	1098.9	1036.5	947.2	901.8
12977.2	62.5°	12081.1	10298.7	3998.7	1128.7	1005.3	1008.2	1040.8	979.8	889.1	846.5
13256.6	65°	12059.8	10046.3	3233.0	965.6	934.4	937.3	979.8	917.4	840.9	815.3
13116.2	67.5°	11633.0	9430.9	2480.0	859.3	856.5	869.2	918.8	874.9	811.1	808.2
12279.6	70°	10477.3	8153.3	1786.6	774.2	775.6	794.1	859.3	847.9	795.5	801.2
10324.2	72.5°	8401.4	6216.4	1199.6	684.9	686.3	716.1	802.6	826.7	779.9	855.0
7325.2	75°	5595.3	3876.7	771.4	589.9	591.3	629.6	752.9	785.6	737.3	852.2
3811.5	77.5°	2688.5	1742.7	558.7	496.3	496.3	531.7	650.8	703.3	628.2	662.2
1225.1	80°	928.8	655.1	439.6	399.9	391.4	415.5	548.8	609.7	541.7	499.1
399.9	82.5°	365.8	340.3	353.1	310.5	282.2	297.8	426.8	503.4	398.4	360.2
225.5	85°	209.9	221.2	249.6	205.6	163.1	182.9	313.4	361.6	300.6	265.2
73.7	87.5°	56.7	78.0	114.9	106.3	73.7	78.0	148.9	199.9	173.0	133.3
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

180°
2993.3
3069.9
3191.8
3339.3
3475.4
3523.6
3525.1
3462.7
3316.6
3109.6
2892.7
2694.1
2518.3
2298.5
2051.8
1806.5
1586.7
1402.4
1219.5
1115.9
1050.7
1005.3
974.1
940.1
882.0
833.8
813.9
812.5
799.7
866.4
859.3
606.9
467.9
358.7
270.8
137.5
0.0

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