

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: P940669

Luminaire Tested: **GALN-SB3D-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

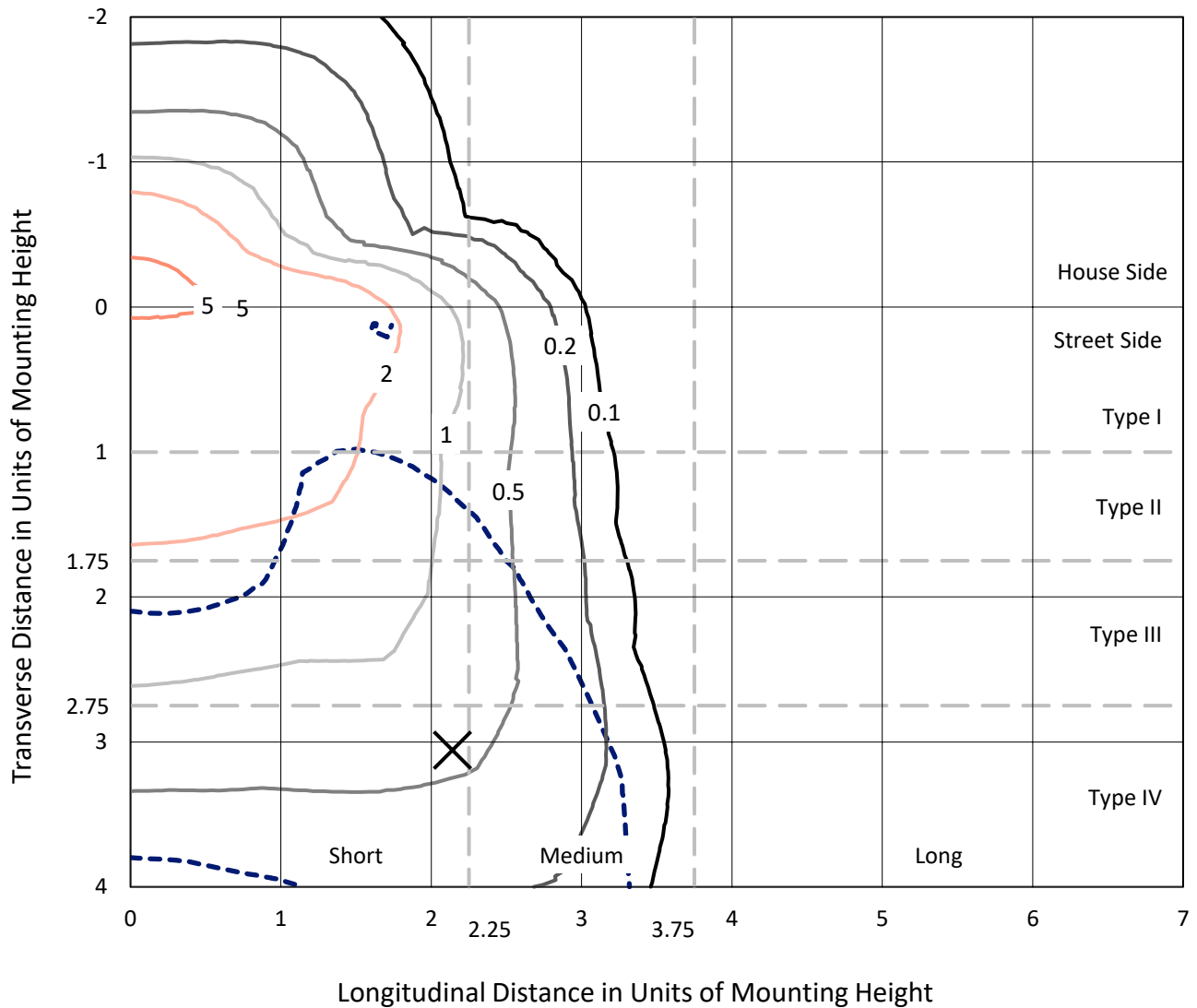
Lumens per Lamp: N/A  
Luminaire Lumens: 27115 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

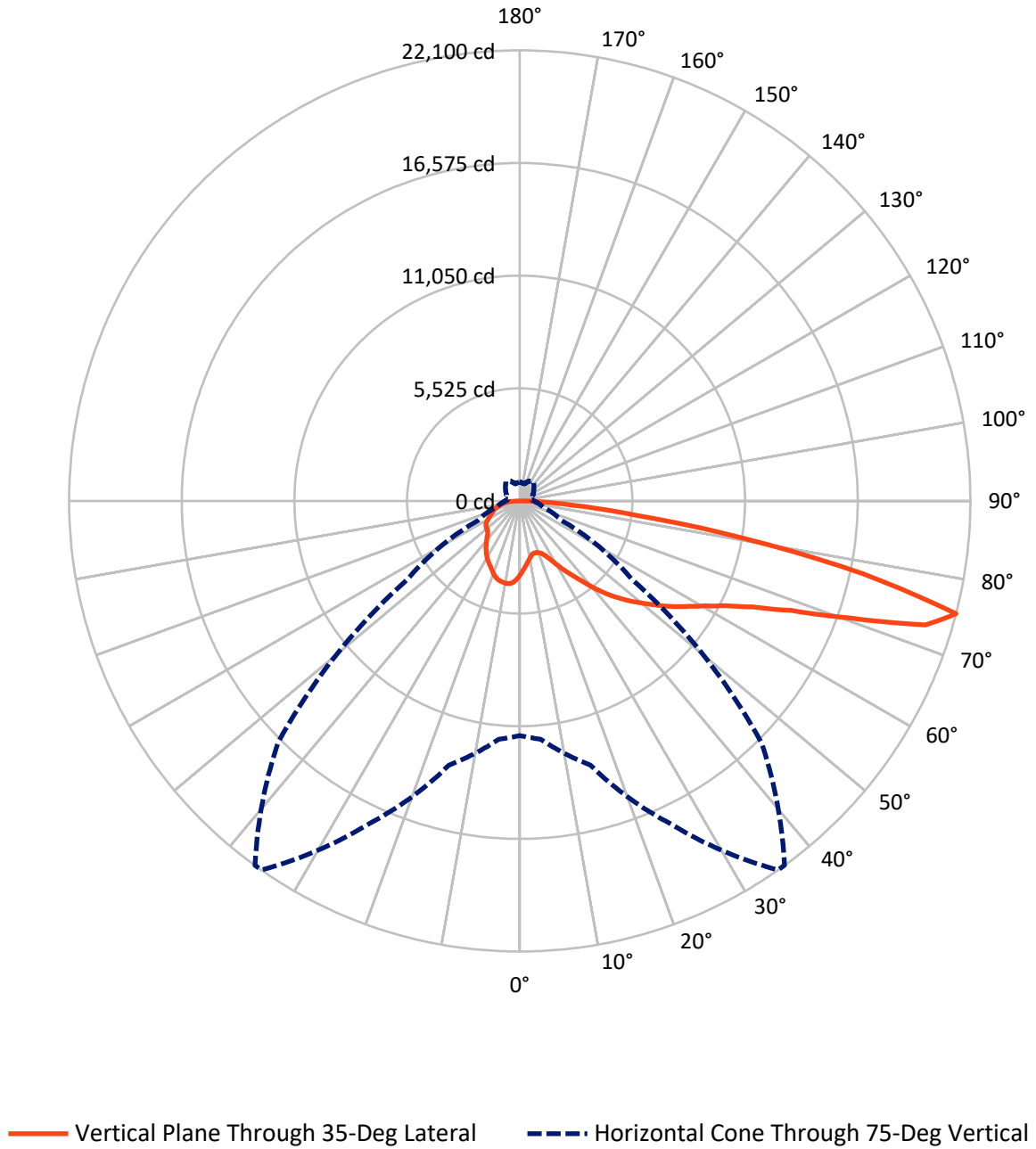
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	6452.7	0.0	6452.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	20662.3	0.0	20662.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	27115.0	0.0	27115.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.1	1.3
10°-20°	986.8	3.6
20°-30°	1657.1	6.1
30°-40°	2575.3	9.5
40°-50°	3822.4	14.1
50°-60°	5277.1	19.5
60°-70°	6402.3	23.6
70°-80°	5291.0	19.5
80°-90°	761.0	2.8
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°	27115.0	100.0
0°-180°	27115.0	100.0

**Coefficient of Utilization**



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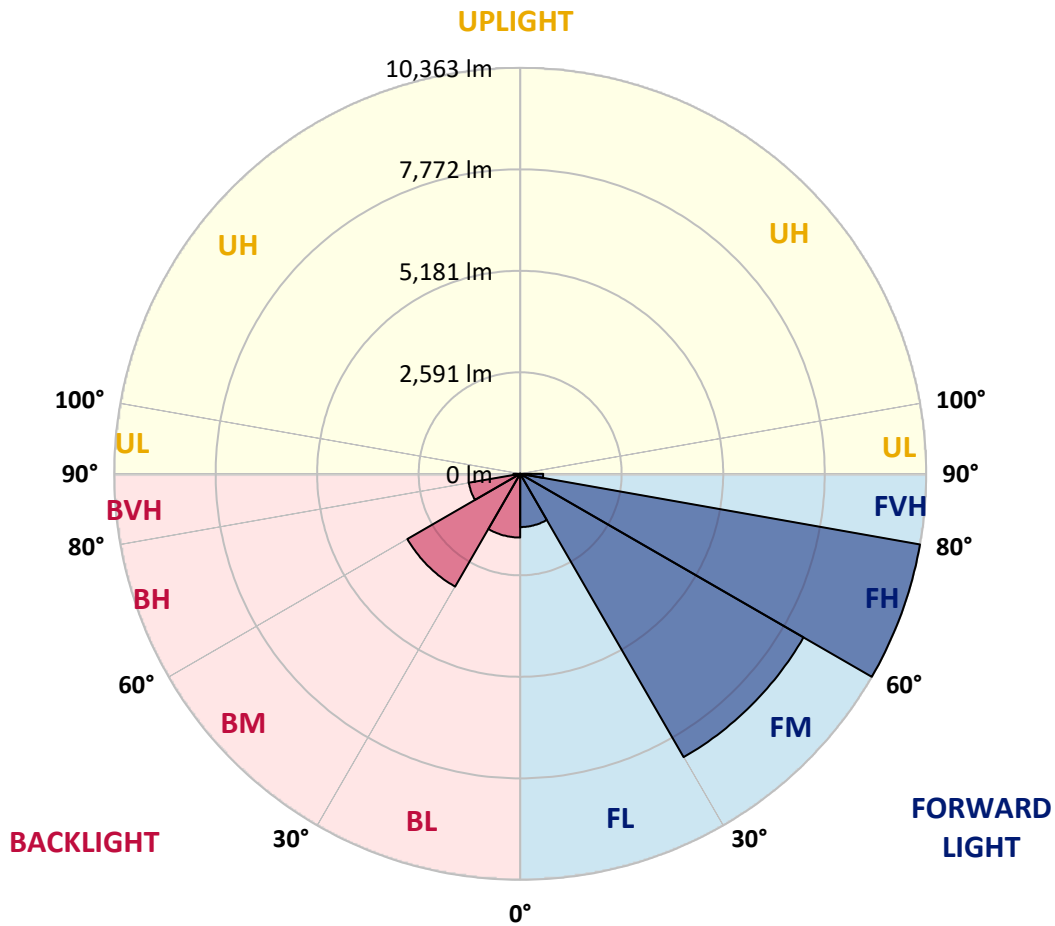
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.8	5.0			
FM (30°-60°)	8350.0	30.8			
FH (60°-80°)	10363.0	38.2			G4/12000
FVH (80°-90°)	589.7	2.2			G4/750
BL (0°-30°)	1626.2	6.0	B3/2500		
BM (30°-60°)	3324.8	12.3	B3/5000		
BH (60°-80°)	1330.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	171.4	0.6			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°	36°	45°	55°	65°	75°
0°	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3
2.5°	3331.8	3352.3	3361.1	3356.7	3378.7	3375.8	3406.6	3444.7	3497.5	3548.8
5°	3075.3	3097.3	3116.3	3133.9	3176.4	3189.6	3238.0	3311.3	3408.0	3506.3
7.5°	2836.4	2855.4	2884.7	2917.0	2988.8	3002.0	3082.6	3197.0	3331.8	3475.5
10°	2641.4	2660.5	2691.3	2727.9	2817.3	2833.4	2936.0	3088.5	3264.4	3446.2
12.5°	2557.9	2563.7	2581.3	2618.0	2695.7	2705.9	2818.8	2993.2	3198.4	3424.2
15°	2553.5	2565.2	2566.7	2585.7	2650.2	2654.6	2758.7	2931.6	3157.4	3419.8
17.5°	2597.4	2606.2	2593.0	2604.8	2659.0	2666.3	2748.4	2902.3	3144.2	3438.8
20°	2714.7	2722.0	2682.5	2666.3	2705.9	2711.8	2792.4	2921.4	3157.4	3478.4
22.5°	2963.9	2968.3	2871.6	2805.6	2808.5	2811.5	2881.8	2999.1	3208.7	3550.2
25°	3352.3	3349.4	3195.5	3068.0	2994.7	2978.6	3025.5	3125.1	3295.2	3645.5
27.5°	3806.7	3784.8	3630.8	3440.3	3280.5	3257.1	3246.8	3289.3	3418.3	3771.6
30°	4319.8	4299.3	4133.6	3884.4	3663.1	3625.0	3528.2	3506.3	3601.5	3943.1
32.5°	4882.7	4869.5	4671.6	4369.6	4073.5	4029.6	3866.8	3808.2	3883.0	4202.5
35°	5354.7	5342.9	5178.8	4868.0	4505.9	4451.7	4286.1	4220.1	4258.2	4535.3
37.5°	5781.2	5775.3	5634.6	5389.8	5016.1	4950.1	4763.9	4741.9	4734.6	4973.5
40°	6177.0	6162.3	6015.7	5886.8	5609.7	5549.6	5385.4	5366.4	5310.7	5513.0
42.5°	6615.3	6577.2	6364.6	6304.5	6229.8	6179.9	6081.7	6084.6	5961.5	6121.3
45°	6972.9	6950.9	6732.5	6697.4	6778.0	6757.5	6842.5	6864.5	6625.5	6758.9
47.5°	7357.0	7336.5	7151.8	7126.8	7345.2	7351.1	7651.6	7658.9	7273.4	7421.5
50°	7830.4	7801.1	7617.9	7648.7	7893.5	7915.5	8465.1	8415.3	7870.0	8094.3
52.5°	8142.7	8160.2	8120.7	8170.5	8504.7	8525.2	9265.5	9137.9	8460.7	8758.3
55°	8372.8	8408.0	8531.1	8645.4	9149.7	9170.2	10020.4	9825.4	8950.3	9373.9
57.5°	8668.9	8619.0	8849.2	9072.0	9762.4	9816.6	10754.8	10488.0	9384.2	9904.6
60°	9094.0	9058.8	9237.6	9567.4	10448.4	10534.9	11531.6	11084.6	9702.3	10325.3
62.5°	9955.9	9867.9	9895.8	10187.5	11313.2	11427.6	12408.2	11604.9	9860.6	10489.4
65°	11244.3	11093.4	10952.6	11154.9	12531.3	12644.2	13397.6	12013.9	9802.0	10171.4
67.5°	12867.0	12717.5	12544.5	12735.1	14325.5	14414.9	14618.7	12244.0	9340.2	8945.9
70°	14205.3	14149.6	14356.3	15140.5	17191.2	17194.1	16184.2	12053.5	8075.2	6342.6
72.5°	14027.9	13994.2	15083.3	17507.8	20803.0	20725.3	17666.1	10611.1	5439.7	2861.3
75°	11508.2	11726.6	13413.8	17465.3	22100.2	22090.0	16758.8	6745.7	2250.0	1185.9
77.5°	6171.1	6517.1	8708.5	12894.9	17252.8	17512.2	11782.3	2360.0	966.0	759.3
80°	2012.6	2314.5	3471.1	6565.4	11210.6	11162.3	5049.8	926.4	661.1	538.0
82.5°	854.6	889.8	1550.8	3100.2	5753.4	5663.9	1608.0	532.1	464.7	367.9
85°	334.2	373.8	684.5	1433.6	2491.9	2437.7	580.5	263.8	297.6	240.4
87.5°	109.9	133.4	244.8	491.1	775.4	747.6	142.2	90.9	129.0	109.9
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°
3613.3	0°	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3	3613.3
3623.5	2.5°	3644.0	3667.5	3695.3	3736.4	3771.6	3800.9	3831.7	3850.7	3858.0	3880.0
3629.4	5°	3670.4	3721.7	3790.6	3858.0	3924.0	3963.6	3998.8	4016.4	4032.5	4044.2
3645.5	7.5°	3714.4	3780.4	3888.8	3976.8	4032.5	4064.7	4088.2	4082.3	4088.2	4091.1
3663.1	10°	3752.5	3844.9	3973.8	4057.4	4099.9	4101.4	4095.5	4075.0	4064.7	4066.2
3689.5	12.5°	3798.0	3900.6	4039.8	4110.2	4121.9	4089.7	4064.7	4029.6	4016.4	4010.5
3729.1	15°	3859.5	3976.8	4111.6	4138.0	4108.7	4067.7	4025.2	3968.0	3938.7	3915.2
3796.5	17.5°	3934.3	4063.3	4167.3	4148.3	4085.3	4017.8	3948.9	3862.4	3802.3	3777.4
3888.8	20°	4038.3	4154.1	4209.8	4126.3	4031.0	3928.4	3811.1	3705.6	3649.9	3625.0
4006.1	22.5°	4164.4	4275.8	4250.9	4088.2	3953.3	3789.2	3642.6	3564.9	3537.0	3519.4
4157.1	25°	4315.4	4410.7	4280.2	4032.5	3825.8	3604.5	3491.6	3466.7	3453.5	3440.3
4341.8	27.5°	4511.8	4563.1	4302.2	3950.4	3626.4	3408.0	3367.0	3371.4	3367.0	3345.0
4598.3	30°	4771.3	4761.0	4322.7	3817.0	3397.8	3230.7	3233.6	3252.7	3255.6	3240.9
4956.0	32.5°	5112.8	5008.7	4333.0	3644.0	3179.4	3075.3	3078.2	3098.8	3113.4	3088.5
5423.6	35°	5526.2	5297.5	4316.9	3427.1	3010.8	2927.3	2905.3	2911.1	2915.5	2892.1
5990.8	37.5°	6008.4	5621.4	4245.0	3186.7	2871.6	2782.1	2735.2	2695.7	2672.2	2650.2
6632.9	40°	6537.6	5974.7	4113.1	2952.2	2716.2	2628.2	2557.9	2483.1	2404.0	2374.6
7313.0	42.5°	7091.7	6338.2	3953.3	2727.9	2537.3	2465.5	2390.8	2282.3	2163.6	2103.5
8019.5	45°	7666.3	6710.5	3796.5	2506.6	2354.1	2323.3	2236.8	2106.4	1977.4	1901.2
8727.5	47.5°	8229.1	7062.3	3566.4	2283.8	2182.6	2216.3	2148.9	2028.7	1885.1	1764.9
9429.6	50°	8767.1	7392.2	3189.6	2058.0	2043.4	2184.1	2119.6	1946.6	1782.4	1628.5
10118.6	52.5°	9300.7	7658.9	2707.4	1852.8	1968.6	2175.3	2081.5	1890.9	1690.1	1528.9
10766.5	55°	9753.6	7796.7	2242.7	1676.9	1860.1	2100.5	2036.0	1825.0	1559.6	1388.1
11210.6	57.5°	10011.6	7685.3	1855.7	1503.9	1710.6	1977.4	1958.3	1684.2	1404.3	1272.3
11297.1	60°	9900.2	7233.8	1539.1	1353.0	1568.4	1844.0	1823.5	1545.0	1285.5	1160.9
10833.9	62.5°	9286.0	6373.4	1288.5	1221.0	1439.4	1707.7	1688.6	1438.0	1194.6	1074.4
9604.1	65°	8048.8	5184.6	1093.5	1111.1	1309.0	1543.5	1571.4	1348.6	1122.8	1005.6
7430.3	67.5°	6138.9	3755.4	941.1	1015.8	1181.5	1382.3	1462.9	1284.1	1062.7	951.3
4299.3	70°	3498.9	2132.8	812.1	923.5	1068.6	1232.8	1379.3	1232.8	998.2	905.9
1610.9	72.5°	1326.6	979.2	702.1	831.1	960.1	1106.7	1287.0	1152.1	923.5	854.6
832.6	75°	708.0	596.6	590.7	722.7	835.5	983.6	1171.2	1073.0	867.8	902.9
576.1	77.5°	482.3	422.2	494.0	618.6	699.2	847.2	1048.1	952.8	752.0	749.0
398.7	80°	334.2	299.0	401.6	498.4	540.9	712.4	914.7	817.9	612.7	571.7
246.3	82.5°	200.8	195.0	300.5	372.3	382.6	549.7	757.8	686.0	501.3	436.8
146.6	85°	109.9	115.8	192.0	218.4	222.8	384.0	593.7	530.6	385.5	323.9
52.8	87.5°	30.8	39.6	70.4	86.5	107.0	199.4	353.3	315.2	193.5	134.9
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>
3613.3
3878.6
4047.1
4095.5
4069.1
4007.6
3922.5
3778.9
3622.1
3522.4
3440.3
3349.4
3248.3
3100.2
2908.2
2664.9
2387.8
2110.8
1895.3
1751.7
1615.3
1511.3
1373.5
1254.7
1143.3
1055.4
986.5
933.7
894.2
842.8
932.3
690.4
546.8
439.7
326.9
134.9
0.0

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