

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: P940659

Luminaire Tested: **GALN-SB3D-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940659  
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-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

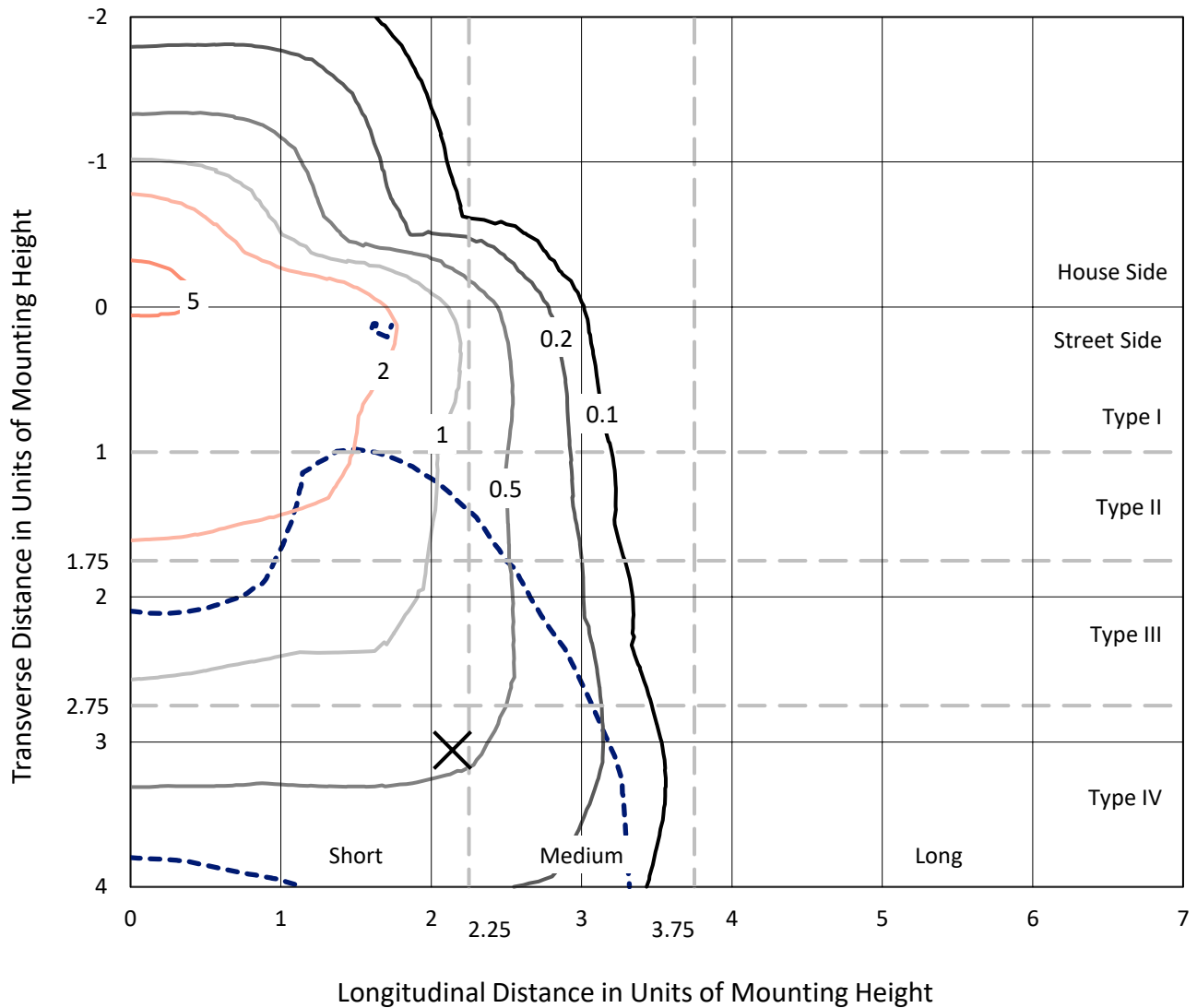
Lumens per Lamp: N/A  
Luminaire Lumens: 26241 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

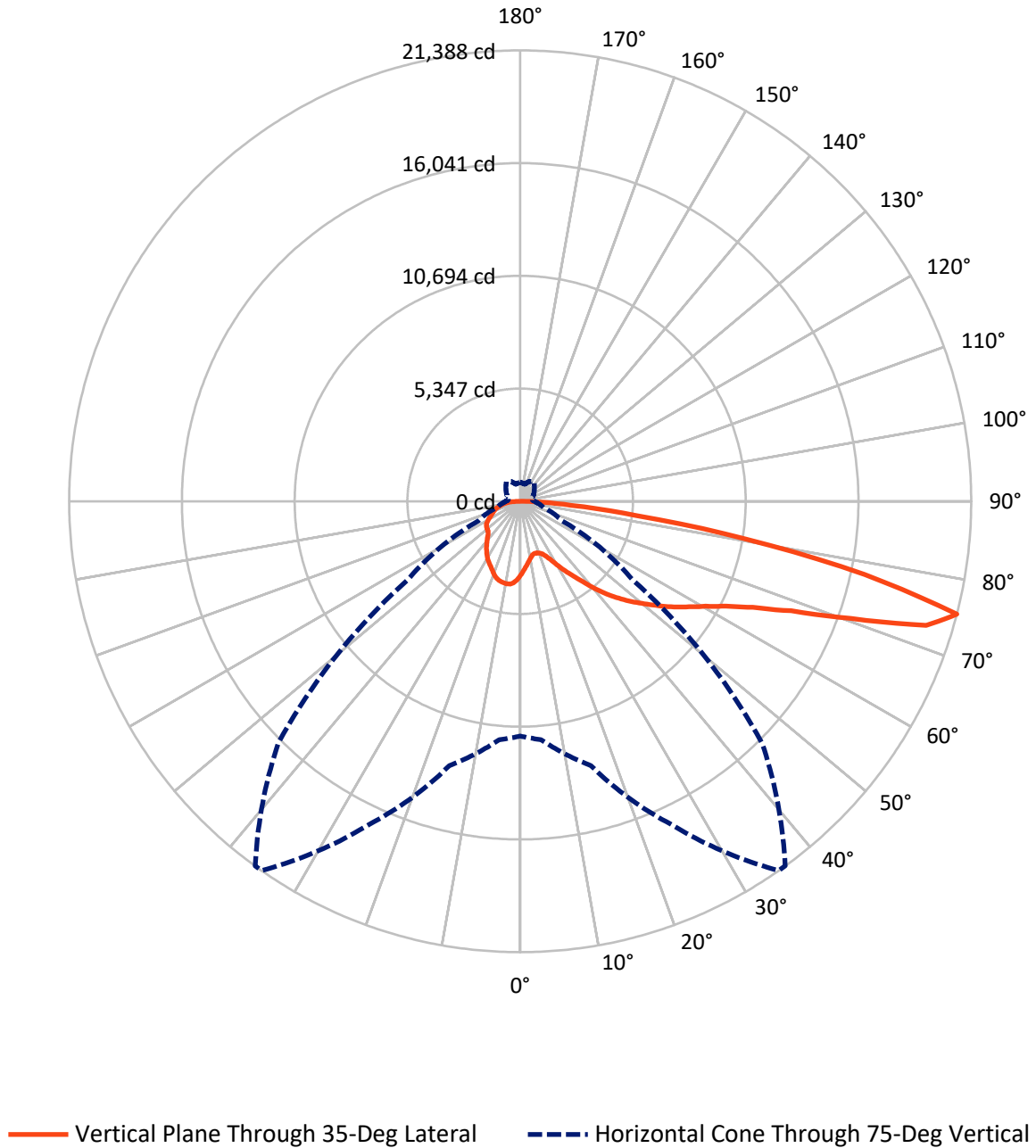
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	6244.7	0.0	6244.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	19996.3	0.0	19996.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	26241.0	0.0	26241.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.1	1.3
10°-20°	955.0	3.6
20°-30°	1603.6	6.1
30°-40°	2492.3	9.5
40°-50°	3699.2	14.1
50°-60°	5107.0	19.5
60°-70°	6195.9	23.6
70°-80°	5120.5	19.5
80°-90°	736.5	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°	26241.0	100.0
0°-180°	26241.0	100.0



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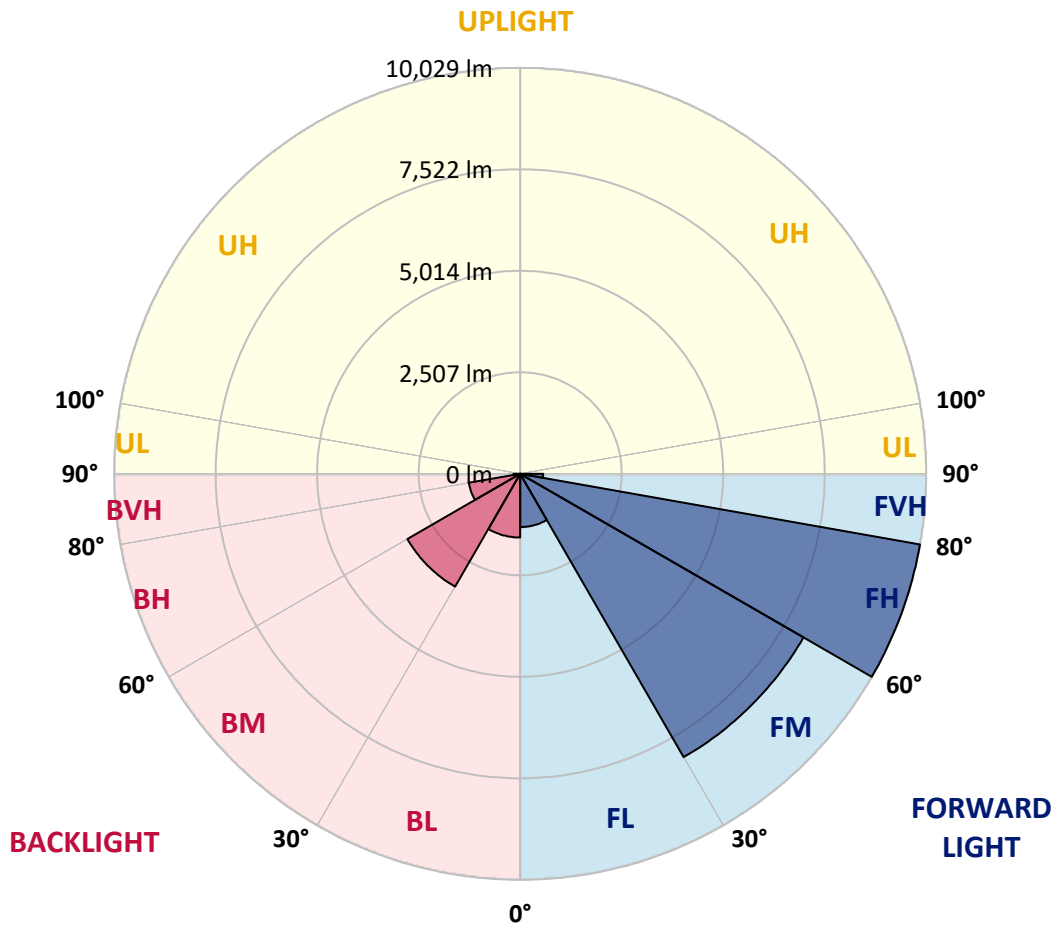
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.9	5.0			
FM (30°-60°)	8080.8	30.8			
FH (60°-80°)	10028.9	38.2			G4/12000
FVH (80°-90°)	570.6	2.2			G4/750
BL (0°-30°)	1573.7	6.0	B3/2500		
BM (30°-60°)	3217.7	12.3	B3/5000		
BH (60°-80°)	1287.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	165.8	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°	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8
2.5°	3224.4	3244.3	3252.8	3248.5	3269.8	3267.0	3296.8	3333.7	3384.7	3434.4
5°	2976.2	2997.5	3015.9	3032.9	3074.1	3086.8	3133.6	3204.6	3298.2	3393.2
7.5°	2744.9	2763.4	2791.8	2823.0	2892.5	2905.2	2983.3	3093.9	3224.4	3363.4
10°	2556.3	2574.7	2604.5	2640.0	2726.5	2742.1	2841.4	2988.9	3159.2	3335.1
12.5°	2475.4	2481.1	2498.1	2533.6	2608.8	2618.7	2727.9	2896.7	3095.3	3313.8
15°	2471.2	2482.5	2483.9	2502.4	2564.8	2569.0	2669.8	2837.2	3055.6	3309.5
17.5°	2513.7	2522.2	2509.5	2520.8	2573.3	2580.4	2659.8	2808.8	3042.8	3328.0
20°	2627.2	2634.3	2596.0	2580.4	2618.7	2624.4	2702.4	2827.2	3055.6	3366.3
22.5°	2868.4	2872.6	2779.0	2715.2	2718.0	2720.8	2788.9	2902.4	3105.3	3435.8
25°	3244.3	3241.4	3092.5	2969.1	2898.2	2882.5	2927.9	3024.4	3189.0	3528.0
27.5°	3684.0	3662.8	3513.8	3329.4	3174.8	3152.1	3142.1	3183.3	3308.1	3650.0
30°	4180.5	4160.7	4000.4	3759.2	3545.0	3508.1	3414.5	3393.2	3485.4	3816.0
32.5°	4725.3	4712.5	4521.0	4228.8	3942.2	3899.7	3742.2	3685.5	3757.8	4067.1
35°	5182.1	5170.7	5011.8	4711.1	4360.7	4308.2	4147.9	4084.1	4121.0	4389.1
37.5°	5594.9	5589.2	5453.0	5216.1	4854.4	4790.5	4610.4	4589.1	4582.0	4813.2
40°	5977.9	5963.7	5821.8	5697.0	5428.9	5370.7	5211.8	5193.4	5139.5	5335.3
42.5°	6402.0	6365.2	6159.5	6101.3	6028.9	5980.7	5885.7	5888.5	5769.4	5924.0
45°	6748.2	6726.9	6515.5	6481.5	6559.5	6539.6	6621.9	6643.2	6412.0	6541.1
47.5°	7119.8	7100.0	6921.2	6897.1	7108.5	7114.2	7405.0	7412.1	7039.0	7182.3
50°	7578.0	7549.7	7372.3	7402.1	7639.0	7660.3	8192.3	8144.0	7616.3	7833.4
52.5°	7880.2	7897.2	7858.9	7907.1	8230.6	8250.4	8966.8	8843.4	8188.0	8476.0
55°	8102.9	8137.0	8256.1	8366.8	8854.8	8874.6	9697.4	9508.7	8661.8	9071.8
57.5°	8389.5	8341.2	8563.9	8779.6	9447.7	9500.2	10408.1	10149.9	9081.7	9585.3
60°	8800.8	8766.8	8939.9	9259.0	10111.6	10195.3	11159.9	10727.3	9389.6	9992.5
62.5°	9635.0	9549.9	9576.8	9859.1	10948.6	11059.2	12008.2	11230.9	9542.8	10151.3
65°	10881.9	10735.8	10599.6	10795.4	12127.4	12236.6	12965.8	11626.7	9486.0	9843.5
67.5°	12452.3	12307.6	12140.2	12324.6	13863.7	13950.3	14147.5	11849.4	9039.2	8657.6
70°	13747.4	13693.5	13893.5	14652.5	16637.1	16639.9	15662.5	11665.0	7814.9	6138.2
72.5°	13575.8	13543.1	14597.2	16943.5	20132.4	20057.3	17096.7	10269.1	5264.3	2769.1
75°	11137.2	11348.6	12981.4	16902.3	21387.9	21377.9	16218.6	6528.3	2177.5	1147.6
77.5°	5972.2	6307.0	8427.8	12479.2	16696.6	16947.7	11402.5	2283.9	934.8	734.8
80°	1947.7	2239.9	3359.2	6353.8	10849.3	10802.5	4887.0	896.5	639.8	520.6
82.5°	827.0	861.1	1500.9	3000.3	5567.9	5481.4	1556.2	514.9	449.7	356.1
85°	323.4	361.7	662.5	1387.4	2411.6	2359.1	561.8	255.3	288.0	232.6
87.5°	106.4	129.1	236.9	475.2	750.4	723.5	137.6	88.0	124.8	106.4
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°
3496.8	0°	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8	3496.8
3506.7	2.5°	3526.6	3549.3	3576.2	3616.0	3650.0	3678.4	3708.2	3726.6	3733.7	3755.0
3512.4	5°	3552.1	3601.8	3668.4	3733.7	3797.5	3835.8	3869.9	3886.9	3902.5	3913.9
3528.0	7.5°	3594.7	3658.5	3763.5	3848.6	3902.5	3933.7	3956.4	3950.7	3956.4	3959.2
3545.0	10°	3631.6	3720.9	3845.8	3926.6	3967.8	3969.2	3963.5	3943.6	3933.7	3935.1
3570.6	12.5°	3675.5	3774.8	3909.6	3977.7	3989.0	3957.8	3933.7	3899.7	3886.9	3881.2
3608.9	15°	3735.1	3848.6	3979.1	4004.6	3976.3	3936.5	3895.4	3840.1	3811.7	3789.0
3674.1	17.5°	3807.5	3932.3	4033.0	4014.6	3953.6	3888.3	3821.6	3737.9	3679.8	3655.7
3763.5	20°	3908.2	4020.2	4074.2	3993.3	3901.1	3801.8	3688.3	3586.2	3532.3	3508.1
3877.0	22.5°	4030.2	4138.0	4113.9	3956.4	3825.9	3667.0	3525.2	3450.0	3423.0	3406.0
4023.1	25°	4176.3	4268.5	4142.2	3902.5	3702.5	3488.3	3379.0	3354.9	3342.2	3329.4
4201.8	27.5°	4366.4	4416.0	4163.5	3823.1	3509.6	3298.2	3258.5	3262.7	3258.5	3237.2
4450.1	30°	4617.5	4607.5	4183.4	3694.0	3288.3	3126.5	3129.4	3147.8	3150.7	3136.5
4796.2	32.5°	4948.0	4847.3	4193.3	3526.6	3076.9	2976.2	2979.0	2998.9	3013.1	2988.9
5248.7	35°	5348.0	5126.7	4177.7	3316.6	2913.8	2832.9	2811.6	2817.3	2821.5	2798.9
5797.7	37.5°	5814.7	5440.2	4108.2	3084.0	2779.0	2692.5	2647.1	2608.8	2586.1	2564.8
6419.1	40°	6326.9	5782.1	3980.5	2857.0	2628.6	2543.5	2475.4	2403.1	2326.5	2298.1
7077.3	42.5°	6863.1	6133.9	3825.9	2640.0	2455.6	2386.0	2313.7	2208.7	2093.8	2035.7
7761.0	45°	7419.2	6494.2	3674.1	2425.8	2278.2	2248.4	2164.7	2038.5	1913.7	1839.9
8446.2	47.5°	7963.9	6834.7	3451.4	2210.1	2112.3	2144.9	2079.6	1963.3	1824.3	1708.0
9125.7	50°	8484.5	7153.9	3086.8	1991.7	1977.5	2113.7	2051.3	1883.9	1725.0	1576.0
9792.4	52.5°	9000.9	7412.1	2620.1	1793.1	1905.1	2105.2	2014.4	1830.0	1635.6	1479.6
10419.4	55°	9439.2	7545.4	2170.4	1622.9	1800.2	2032.8	1970.4	1766.1	1509.4	1343.4
10849.3	57.5°	9688.9	7437.6	1795.9	1455.5	1655.5	1913.7	1895.2	1629.9	1359.0	1231.3
10933.0	60°	9581.1	7000.7	1489.5	1309.3	1517.9	1784.6	1764.7	1495.2	1244.1	1123.5
10484.7	62.5°	8986.7	6168.0	1246.9	1181.7	1393.0	1652.6	1634.2	1391.6	1156.1	1039.8
9294.5	65°	7789.4	5017.5	1058.3	1075.3	1266.8	1493.8	1520.7	1305.1	1086.6	973.1
7190.8	67.5°	5941.0	3634.4	910.7	983.1	1143.4	1337.7	1415.7	1242.7	1028.5	920.7
4160.7	70°	3386.1	2064.0	785.9	893.7	1034.1	1193.0	1334.9	1193.0	966.1	876.7
1559.0	72.5°	1283.8	947.6	679.5	804.3	929.2	1071.0	1245.5	1115.0	893.7	827.0
805.8	75°	685.2	577.4	571.7	699.4	808.6	951.9	1133.4	1038.4	839.8	873.8
557.5	77.5°	466.7	408.5	478.1	598.6	676.7	819.9	1014.3	922.1	727.7	724.9
385.9	80°	323.4	289.4	388.7	482.3	523.5	689.4	885.2	791.6	593.0	553.2
238.3	82.5°	194.3	188.7	290.8	360.3	370.2	532.0	733.4	663.9	485.2	422.7
141.9	85°	106.4	112.1	185.8	211.4	215.6	371.7	574.5	513.5	373.1	313.5
51.1	87.5°	29.8	38.3	68.1	83.7	103.6	192.9	341.9	305.0	187.3	130.5
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>
3496.8
3753.6
3916.7
3963.5
3938.0
3878.4
3796.1
3657.1
3505.3
3408.8
3329.4
3241.4
3143.6
3000.3
2814.5
2579.0
2310.9
2042.7
1834.2
1695.2
1563.3
1462.6
1329.2
1214.3
1106.5
1021.4
954.7
903.6
865.3
815.7
902.2
668.1
529.1
425.6
316.3
130.5
0.0

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