

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: P947557

Luminaire Tested: **GALN-SB2D-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19983 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

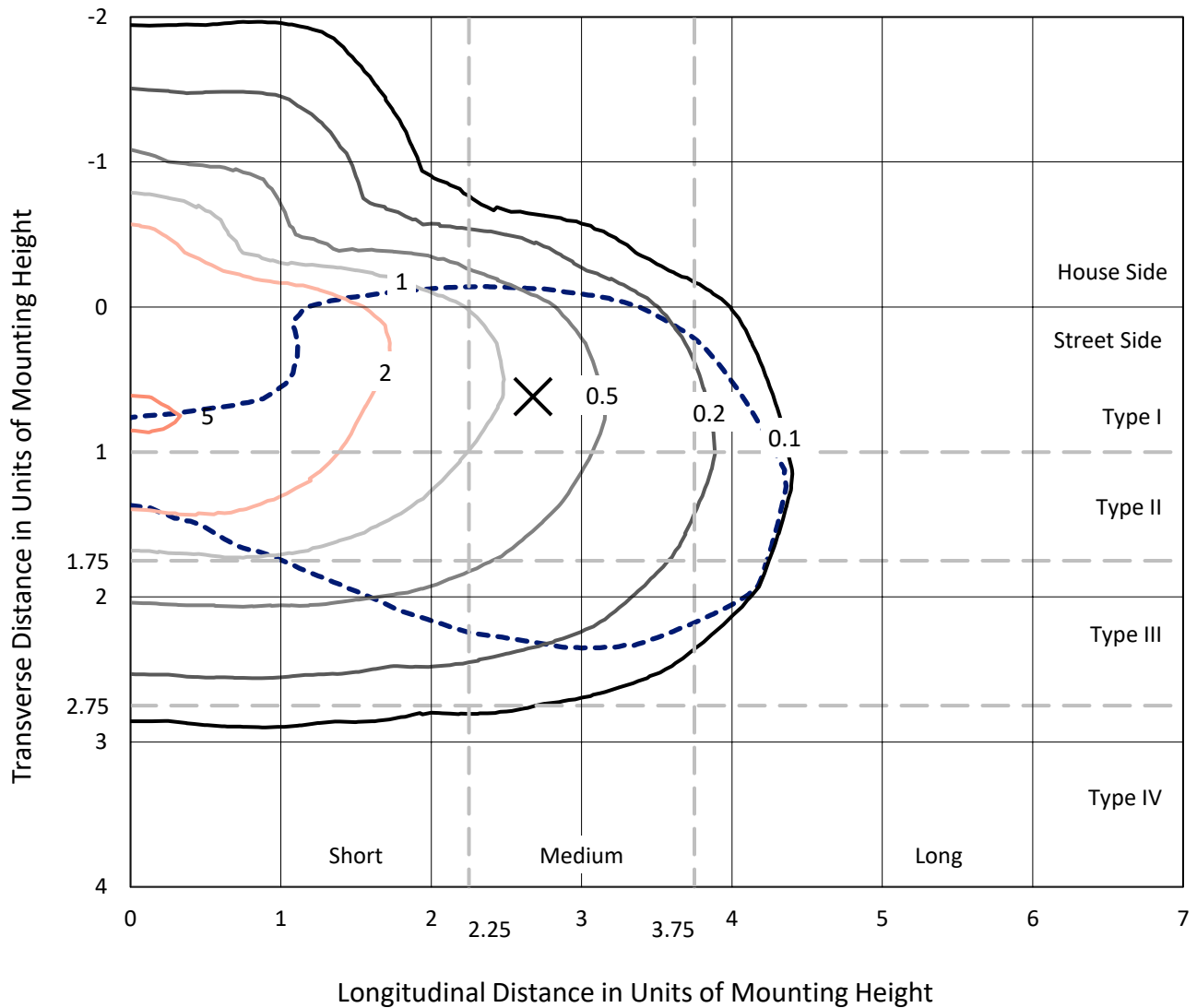
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

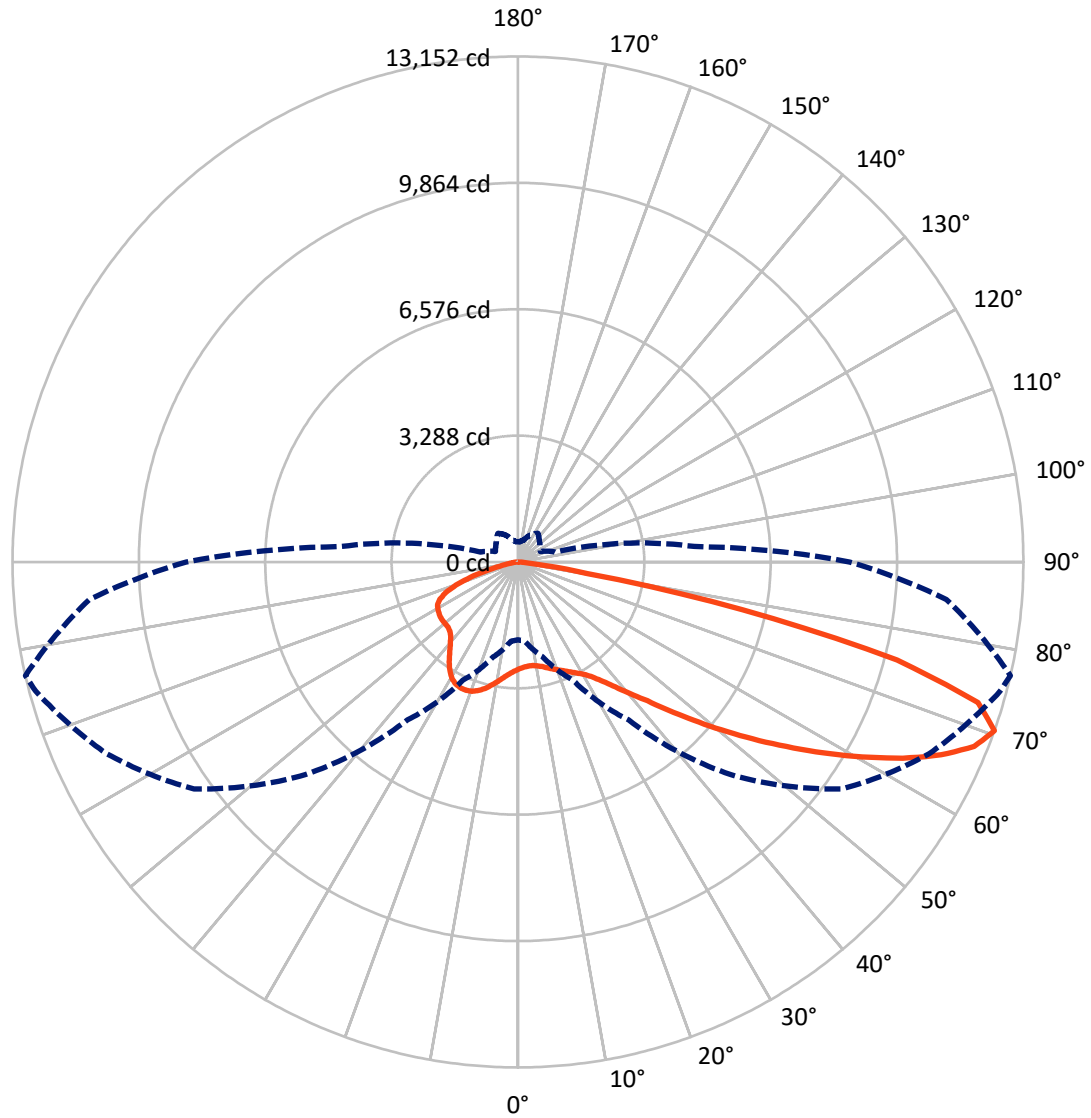
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4376.0	0.0	4376.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15607.0	0.0	15607.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	19983.0	0.0	19983.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	1.3
10°-20°	767.4	3.8
20°-30°	1312.3	6.6
30°-40°	2110.3	10.6
40°-50°	3294.7	16.5
50°-60°	4401.0	22.0
60°-70°	4690.8	23.5
70°-80°	2887.6	14.5
80°-90°	253.0	1.3
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°	19983.0	100.0
0°-180°	19983.0	100.0



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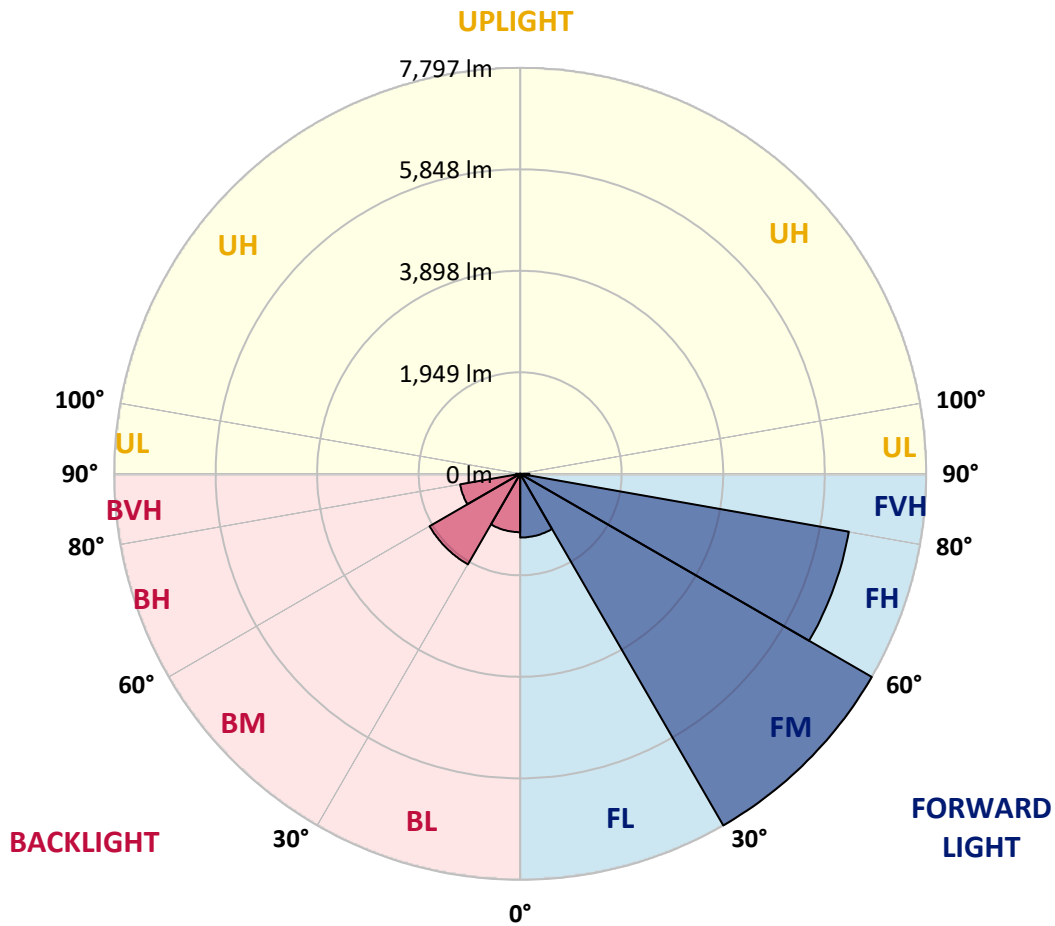
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.3	6.1			
FM (30°-60°)	7796.9	39.0			
FH (60°-80°)	6408.9	32.1			G3/7500
FVH (80°-90°)	176.9	0.9			G2/225
BL (0°-30°)	1121.3	5.6	B3/2500		
BM (30°-60°)	2009.1	10.1	B2/2500		
BH (60°-80°)	1169.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	76.1	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8
2.5°	2569.8	2568.8	2582.1	2586.2	2610.8	2628.2	2660.9	2695.7	2740.7	2745.9
5°	2421.4	2421.4	2436.8	2453.2	2484.9	2519.7	2569.8	2630.2	2708.0	2720.3
7.5°	2295.5	2303.7	2317.0	2348.8	2385.6	2435.8	2512.5	2598.5	2700.8	2720.3
10°	2194.2	2203.4	2219.8	2245.4	2300.7	2370.3	2470.5	2581.1	2718.2	2748.9
12.5°	2162.5	2171.7	2180.9	2200.4	2251.5	2333.4	2453.2	2589.3	2760.2	2790.9
15°	2236.2	2247.4	2240.3	2235.2	2261.8	2336.5	2461.3	2618.9	2812.4	2856.4
17.5°	2406.1	2410.2	2393.8	2345.7	2341.6	2381.5	2500.2	2659.9	2877.9	2926.0
20°	2680.4	2673.2	2639.4	2544.2	2490.0	2481.8	2566.8	2721.3	2945.4	2996.6
22.5°	3052.9	3044.7	2977.1	2826.7	2705.9	2626.1	2663.0	2801.1	3021.2	3078.5
25°	3517.5	3506.3	3407.0	3202.3	3015.0	2817.5	2794.0	2906.5	3114.3	3167.5
27.5°	4059.9	4050.7	3943.3	3673.1	3402.9	3079.5	2956.7	3030.4	3211.5	3271.9
30°	4643.3	4669.9	4479.5	4188.9	3847.1	3421.3	3175.7	3182.9	3337.4	3391.6
32.5°	5329.0	5375.0	5145.8	4777.3	4310.7	3792.8	3452.0	3395.7	3520.6	3565.6
35°	6008.5	6060.7	5870.4	5463.0	4925.7	4230.8	3740.6	3640.3	3764.2	3813.3
37.5°	6596.0	6665.6	6567.3	6213.2	5583.8	4758.9	4117.2	3927.9	4064.0	4125.4
40°	7059.6	7166.0	7158.9	6937.8	6359.6	5399.6	4595.2	4283.0	4436.5	4503.1
42.5°	7436.2	7528.3	7608.1	7596.9	7169.1	6127.2	5157.0	4744.6	4861.3	4938.0
45°	7696.2	7794.4	7966.3	8151.6	7947.9	6906.1	5800.8	5292.1	5398.6	5514.2
47.5°	7928.5	8040.0	8263.1	8556.9	8609.1	7688.0	6505.9	5929.7	6027.0	6146.7
50°	7948.9	8045.1	8391.1	8807.6	9078.8	8439.2	7263.3	6645.1	6736.2	6864.1
52.5°	7454.6	7606.1	8209.9	8800.4	9294.7	9067.5	8015.5	7389.1	7491.5	7645.0
55°	5786.4	6008.5	7678.8	8526.2	9218.0	9473.8	8730.8	8180.2	8311.2	8471.9
57.5°	4984.1	5081.3	6095.5	8026.7	8868.0	9579.3	9334.7	8979.5	9190.4	9366.4
60°	4479.5	4560.4	5160.1	7249.9	8407.4	9412.4	9801.3	9724.6	10088.9	10298.7
62.5°	3939.2	4015.9	4561.4	6053.6	7817.9	9135.1	10096.1	10412.3	11010.0	11239.3
65°	3402.9	3468.4	3991.4	5086.4	7068.8	8857.7	10248.6	11006.9	11862.5	12100.0
67.5°	2805.2	2859.5	3353.8	4291.2	6158.0	8478.1	10324.3	11474.6	12604.5	12808.2
70°	2024.3	2066.3	2577.0	3393.7	5014.8	7825.1	10293.6	11806.2	12989.3	13152.0
72.5°	956.9	994.8	1594.5	2203.4	3542.1	6554.0	9672.4	11543.2	12598.4	12517.5
75°	510.7	543.4	916.0	1208.7	1870.8	4492.8	7915.2	9943.6	10579.1	10186.2
77.5°	345.9	371.5	567.0	725.6	854.6	2132.8	5087.4	6884.6	6623.6	5974.8
80°	274.3	300.9	464.6	491.2	413.5	770.6	2102.1	3186.9	2289.4	1830.9
82.5°	210.8	240.5	390.9	356.2	225.2	316.2	612.0	1008.1	586.4	446.2
85°	129.0	160.7	307.0	227.2	126.9	144.3	207.8	280.4	179.1	149.4
87.5°	65.5	92.1	155.6	82.9	57.3	33.8	55.3	55.3	47.1	40.9
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°
2787.8	0°	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8
2773.5	2.5°	2798.0	2818.5	2853.3	2886.1	2911.6	2936.2	2960.8	2974.1	2978.2	2994.5
2788.8	5°	2830.8	2868.7	2936.2	2999.7	3039.6	3064.1	3081.5	3091.8	3093.8	3098.9
2830.8	7.5°	2891.2	2951.6	3045.7	3109.2	3138.8	3136.8	3129.6	3104.0	3093.8	3084.6
2892.2	10°	2976.1	3055.9	3171.6	3215.6	3197.2	3148.1	3084.6	3009.9	2975.1	2941.3
2976.1	12.5°	3081.5	3182.9	3296.5	3294.4	3203.3	3077.4	2930.1	2815.4	2742.8	2690.6
3079.5	15°	3209.5	3326.1	3413.1	3343.5	3144.0	2917.8	2701.8	2552.4	2486.9	2429.6
3183.9	17.5°	3341.5	3466.3	3506.3	3328.2	2994.5	2681.4	2436.8	2319.1	2254.6	2223.9
3296.5	20°	3470.4	3594.3	3561.5	3240.2	2767.3	2413.2	2195.2	2130.8	2117.5	2124.6
3406.0	22.5°	3606.6	3717.1	3572.8	3070.3	2477.7	2139.0	2019.2	2021.3	2050.9	2072.4
3520.6	25°	3745.7	3820.4	3543.1	2824.7	2166.6	1937.3	1907.7	1940.4	1998.7	2040.7
3649.5	27.5°	3879.8	3912.6	3478.6	2520.7	1899.5	1793.0	1798.2	1865.7	1953.7	2012.1
3806.1	30°	4031.3	3994.4	3354.8	2178.9	1714.2	1669.2	1712.2	1791.0	1879.0	1931.2
4003.6	32.5°	4202.2	4065.0	3158.3	1862.6	1583.2	1569.9	1640.6	1691.7	1730.6	1746.0
4265.6	35°	4415.1	4164.3	2906.5	1640.6	1465.5	1497.3	1564.8	1539.2	1523.9	1515.7
4617.7	37.5°	4691.4	4298.4	2611.8	1496.2	1370.4	1445.1	1472.7	1392.9	1332.5	1302.8
5044.5	40°	5024.0	4494.9	2328.3	1384.7	1310.0	1400.0	1351.9	1255.7	1179.0	1137.0
5524.5	42.5°	5393.5	4700.6	2089.8	1300.8	1276.2	1363.2	1262.9	1148.3	1024.4	1011.1
6096.5	45°	5781.3	4912.4	1927.1	1236.3	1259.8	1331.5	1211.7	1026.5	938.5	992.7
6670.7	47.5°	6169.2	5106.9	1828.9	1188.2	1251.6	1295.7	1166.7	958.9	896.5	975.3
7285.8	50°	6601.1	5280.9	1784.9	1153.4	1242.4	1281.3	1099.2	941.6	852.5	904.7
7922.3	52.5°	7029.9	5416.0	1752.1	1118.6	1229.1	1270.1	1066.4	921.1	799.3	802.4
8563.0	55°	7457.7	5504.0	1716.3	1072.5	1199.5	1245.5	1063.3	898.6	759.4	745.1
9240.5	57.5°	7914.1	5554.1	1672.3	1021.4	1148.3	1183.1	1060.3	881.2	747.1	723.6
9933.4	60°	8378.8	5627.8	1615.0	958.9	1079.7	1108.4	1053.1	875.0	739.9	700.0
10586.3	62.5°	8795.3	5653.4	1546.4	899.6	991.7	1034.7	1037.8	869.9	720.5	651.9
11128.7	65°	9068.6	5542.9	1426.7	832.0	896.5	958.9	1008.1	852.5	685.7	617.1
11396.9	67.5°	9057.3	5227.7	1239.4	745.1	804.4	875.0	965.1	822.8	643.7	574.1
11194.2	70°	8635.7	4605.4	1001.9	643.7	703.1	785.0	909.8	778.8	593.6	527.1
9953.8	72.5°	7406.5	3604.5	727.7	525.0	585.4	691.8	838.2	725.6	542.4	485.1
7356.4	75°	5291.1	2281.2	493.3	403.2	455.4	586.4	749.1	663.2	495.3	487.2
3684.3	77.5°	2702.9	1089.9	326.5	294.7	317.3	462.6	629.4	592.6	502.5	402.2
1048.0	80°	879.1	402.2	205.7	200.6	210.8	308.1	487.2	486.1	380.7	273.3
253.8	82.5°	280.4	173.0	134.1	129.0	123.8	193.4	339.8	384.8	256.9	173.0
91.1	85°	111.6	103.4	78.8	72.7	52.2	91.1	178.1	255.9	191.4	124.9
23.5	87.5°	40.9	40.9	21.5	15.4	11.3	30.7	48.1	76.8	109.5	64.5
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>
2787.8
3003.8
3107.1
3086.7
2931.1
2678.3
2423.5
2233.1
2121.6
2077.6
2052.0
2026.4
1943.5
1754.2
1523.9
1310.0
1140.1
1024.4
1021.4
1012.2
943.6
823.9
755.3
726.6
703.1
651.9
617.1
577.2
533.2
482.0
459.5
358.2
241.5
171.9
127.9
63.5
0.0

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