

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: P948943

Luminaire Tested: **GALN-SB3D-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948943
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-SB3D-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28164 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

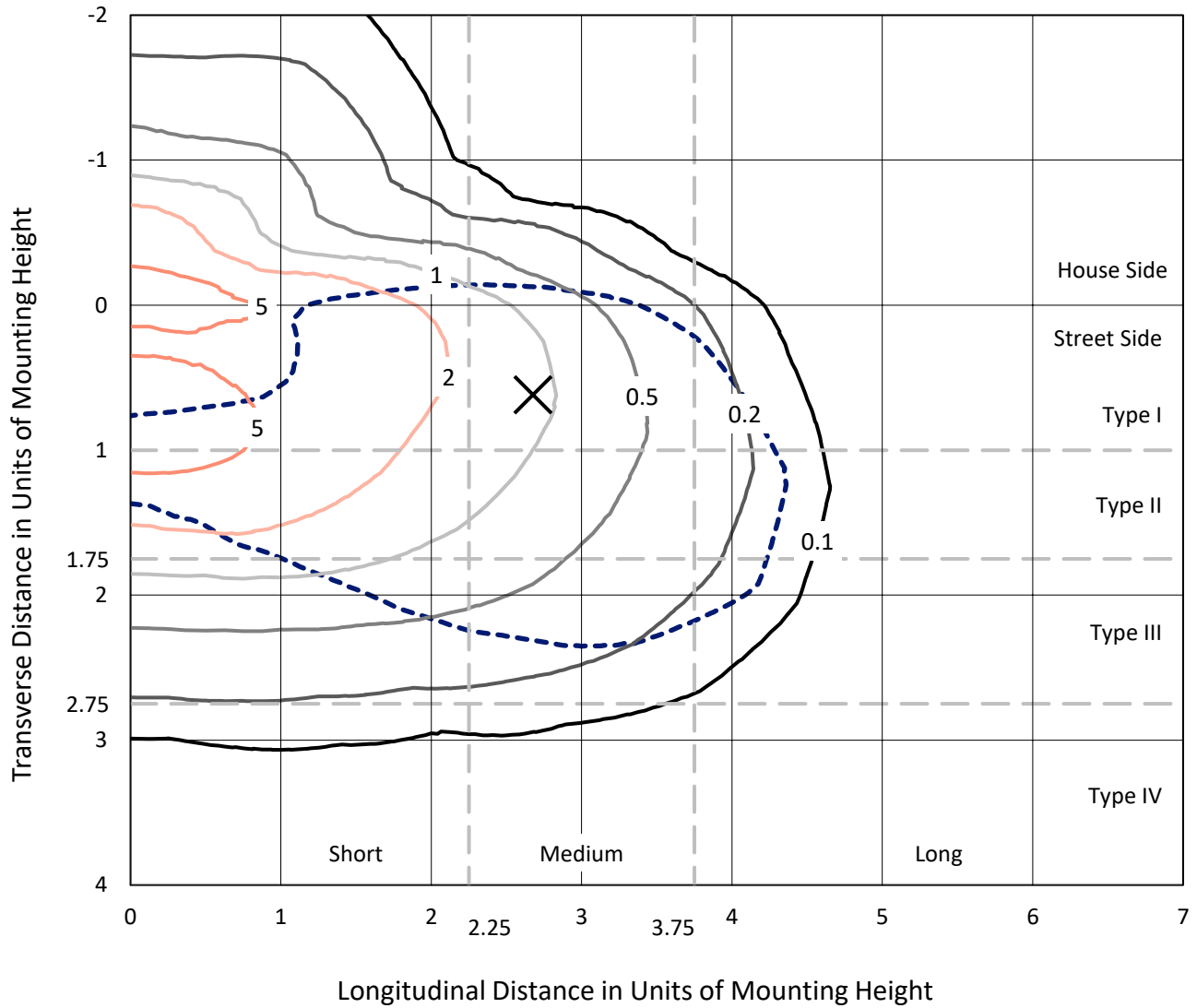
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

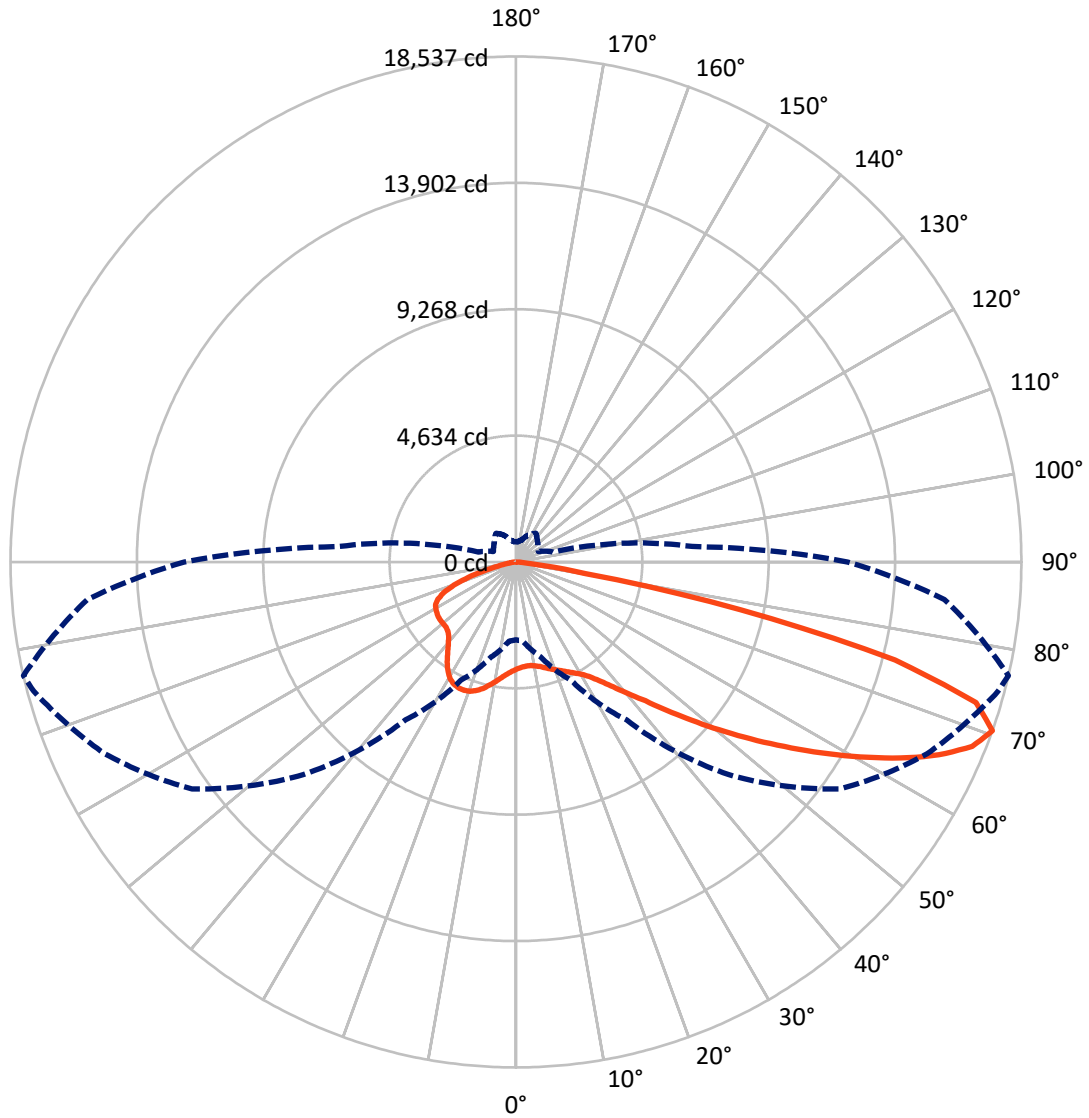
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	6167.5	0.0	6167.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	21996.5	0.0	21996.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	28164.0	0.0	28164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.7	1.3
10°-20°	1081.5	3.8
20°-30°	1849.5	6.6
30°-40°	2974.3	10.6
40°-50°	4643.6	16.5
50°-60°	6202.7	22.0
60°-70°	6611.2	23.5
70°-80°	4069.8	14.5
80°-90°	356.6	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°	28164.0	100.0
0°-180°	28164.0	100.0

Coefficient of Utilization



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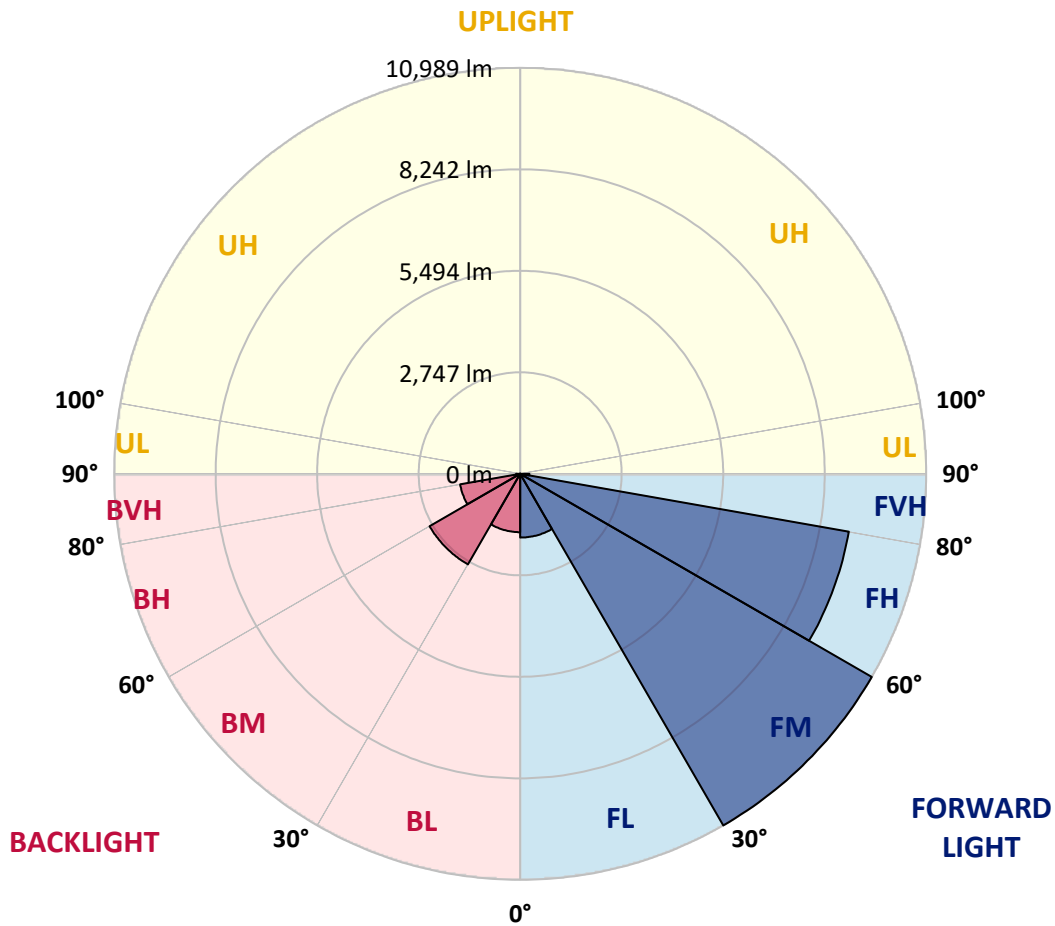
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.5	6.1			
FM (30°-60°)	10989.0	39.0			
FH (60°-80°)	9032.7	32.1			G4/12000
FVH (80°-90°)	249.4	0.9			G3/500
BL (0°-30°)	1580.3	5.6	B3/2500		
BM (30°-60°)	2831.6	10.1	B3/5000		
BH (60°-80°)	1648.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	107.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1
2.5°	3621.9	3620.5	3639.2	3645.0	3679.6	3704.1	3750.3	3799.3	3862.8	3870.0
5°	3412.8	3412.8	3434.4	3457.5	3502.2	3551.2	3621.9	3707.0	3816.6	3833.9
7.5°	3235.3	3246.9	3265.6	3310.3	3362.3	3432.9	3541.1	3662.3	3806.5	3833.9
10°	3092.5	3105.5	3128.6	3164.7	3242.5	3340.6	3482.0	3637.8	3831.1	3874.3
12.5°	3047.8	3060.8	3073.8	3101.2	3173.3	3288.7	3457.5	3649.3	3890.2	3933.5
15°	3151.7	3167.5	3157.4	3150.2	3187.7	3293.0	3469.0	3691.1	3963.8	4025.8
17.5°	3391.1	3396.9	3373.8	3306.0	3300.2	3356.5	3523.8	3748.8	4056.1	4123.9
20°	3777.7	3767.6	3720.0	3585.8	3509.4	3497.9	3617.6	3835.4	4151.3	4223.4
22.5°	4302.7	4291.2	4196.0	3983.9	3813.7	3701.2	3753.2	3947.9	4258.0	4338.8
25°	4957.6	4941.7	4801.8	4513.3	4249.4	3971.0	3937.8	4096.5	4389.3	4464.3
27.5°	5722.1	5709.1	5557.6	5176.8	4796.0	4340.2	4167.1	4271.0	4526.3	4611.4
30°	6544.2	6581.7	6313.4	5903.8	5422.0	4822.0	4475.8	4485.9	4703.7	4780.2
32.5°	7510.6	7575.6	7252.5	6733.2	6075.4	5345.6	4865.3	4785.9	4961.9	5025.4
35°	8468.4	8542.0	8273.7	7699.6	6942.3	5962.9	5272.0	5130.7	5305.2	5374.4
37.5°	9296.4	9394.4	9256.0	8756.9	7869.8	6707.2	5802.8	5536.0	5727.8	5814.4
40°	9949.8	10099.8	10089.7	9778.1	8963.2	7610.2	6476.4	6036.5	6252.9	6346.6
42.5°	10480.6	10610.4	10722.9	10707.0	10104.1	8635.7	7268.3	6687.0	6851.5	6959.6
45°	10847.0	10985.4	11227.7	11488.8	11201.8	9733.4	8175.6	7458.7	7608.7	7771.7
47.5°	11174.4	11331.6	11646.0	12060.0	12133.6	10835.4	9169.4	8357.3	8494.4	8663.1
50°	11203.2	11338.8	11826.3	12413.4	12795.7	11894.1	10236.8	9365.6	9494.0	9674.3
52.5°	10506.5	10720.0	11571.0	12403.3	13100.0	12779.8	11297.0	10414.2	10558.5	10774.8
55°	8155.4	8468.4	10822.4	12016.7	12991.8	13352.4	12305.2	11529.2	11713.8	11940.3
57.5°	7024.6	7161.6	8591.0	11312.9	12498.5	13501.0	13156.3	12655.7	12952.9	13201.0
60°	6313.4	6427.4	7272.6	10218.1	11849.4	13265.9	13814.0	13705.8	14219.3	14515.0
62.5°	5551.9	5660.0	6428.8	8531.9	11018.6	12875.0	14229.4	14675.1	15517.5	15840.6
65°	4796.0	4888.3	5625.4	7168.8	9962.8	12484.1	14444.3	15513.2	16719.0	17053.7
67.5°	3953.7	4030.1	4726.8	6048.0	8679.0	11949.0	14551.1	16172.3	17764.8	18051.8
70°	2853.1	2912.2	3632.0	4783.0	7067.8	11028.7	14507.8	16639.7	18307.1	18536.5
72.5°	1348.7	1402.0	2247.3	3105.5	4992.2	9237.2	13632.3	16269.0	17756.1	17642.2
75°	719.8	765.9	1291.0	1703.5	2636.7	6332.2	11155.6	14014.5	14910.2	14356.3
77.5°	487.5	523.6	799.1	1022.7	1204.4	3006.0	7170.2	9703.1	9335.3	8420.8
80°	386.6	424.1	654.9	692.4	582.7	1086.1	2962.7	4491.7	3226.7	2580.5
82.5°	297.1	339.0	551.0	502.0	317.3	445.7	862.6	1420.8	826.5	628.9
85°	181.7	226.5	432.7	320.2	178.9	203.4	292.8	395.2	252.4	210.6
87.5°	92.3	129.8	219.2	116.8	80.8	47.6	77.9	77.9	66.4	57.7
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°
3929.1	0°	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1	3929.1
3908.9	2.5°	3943.6	3972.4	4021.4	4067.6	4103.7	4138.3	4172.9	4191.7	4197.4	4220.5
3930.6	5°	3989.7	4043.1	4138.3	4227.7	4284.0	4318.6	4343.1	4357.5	4360.4	4367.6
3989.7	7.5°	4074.8	4159.9	4292.6	4382.1	4423.9	4421.0	4410.9	4374.8	4360.4	4347.4
4076.3	10°	4194.5	4307.0	4470.0	4532.1	4506.1	4436.9	4347.4	4242.1	4193.1	4145.5
4194.5	12.5°	4343.1	4485.9	4646.0	4643.1	4514.8	4337.3	4129.6	3968.1	3865.7	3792.1
4340.2	15°	4523.4	4687.8	4810.4	4712.4	4431.1	4112.3	3808.0	3597.4	3505.1	3424.3
4487.3	17.5°	4709.5	4885.5	4941.7	4690.7	4220.5	3779.1	3434.4	3268.5	3177.6	3134.4
4646.0	20°	4891.2	5065.8	5019.6	4566.7	3900.3	3401.2	3094.0	3003.1	2984.4	2994.5
4800.4	22.5°	5083.1	5238.8	5035.5	4327.2	3492.1	3014.6	2845.9	2848.8	2890.6	2920.9
4961.9	25°	5279.2	5384.5	4993.6	3981.1	3053.6	2730.5	2688.7	2734.8	2817.0	2876.2
5143.6	27.5°	5468.2	5514.3	4902.8	3552.7	2677.1	2527.1	2534.3	2629.5	2753.6	2835.8
5364.3	30°	5681.7	5629.7	4728.2	3070.9	2416.0	2352.6	2413.2	2524.2	2648.3	2721.8
5642.7	32.5°	5922.6	5729.3	4451.3	2625.2	2231.4	2212.7	2312.2	2384.3	2439.1	2460.8
6012.0	35°	6222.6	5869.2	4096.5	2312.2	2065.5	2110.3	2205.5	2169.4	2147.8	2136.2
6508.2	37.5°	6612.0	6058.1	3681.0	2108.8	1931.4	2036.7	2075.6	1963.1	1878.0	1836.2
7109.7	40°	7080.8	6335.1	3281.5	1951.6	1846.3	1973.2	1905.4	1769.8	1661.7	1602.5
7786.1	42.5°	7601.5	6625.0	2945.4	1833.3	1798.7	1921.3	1779.9	1618.4	1443.9	1425.1
8592.5	45°	8148.2	6923.6	2716.1	1742.4	1775.6	1876.6	1707.8	1446.7	1322.7	1399.1
9401.7	47.5°	8694.9	7197.6	2577.6	1674.6	1764.1	1826.1	1644.4	1351.5	1263.6	1374.6
10268.5	50°	9303.6	7442.9	2515.6	1625.6	1751.1	1805.9	1549.2	1327.0	1201.5	1275.1
11165.7	52.5°	9907.9	7633.3	2469.4	1576.6	1732.3	1790.0	1503.0	1298.2	1126.5	1130.9
12068.7	55°	10510.9	7757.3	2418.9	1511.6	1690.5	1755.4	1498.7	1266.4	1070.3	1050.1
13023.6	57.5°	11154.2	7828.0	2356.9	1439.5	1618.4	1667.4	1494.3	1241.9	1053.0	1019.8
14000.1	60°	11809.0	7931.8	2276.1	1351.5	1521.7	1562.1	1484.2	1233.3	1042.9	986.6
14920.3	62.5°	12396.1	7967.9	2179.5	1267.9	1397.7	1458.3	1462.6	1226.1	1015.5	918.8
15684.8	65°	12781.2	7812.1	2010.7	1172.7	1263.6	1351.5	1420.8	1201.5	966.4	869.8
16062.7	67.5°	12765.4	7367.8	1746.8	1050.1	1133.7	1233.3	1360.2	1159.7	907.3	809.2
15777.1	70°	12171.1	6490.9	1412.1	907.3	990.9	1106.3	1282.3	1097.7	836.6	742.8
14028.9	72.5°	10438.7	5080.2	1025.6	740.0	825.1	975.1	1181.3	1022.7	764.5	683.7
10368.1	75°	7457.3	3215.1	695.2	568.3	641.9	826.5	1055.8	934.7	698.1	686.6
5192.7	77.5°	3809.4	1536.2	460.1	415.4	447.1	652.0	887.1	835.2	708.2	566.9
1477.0	80°	1239.0	566.9	289.9	282.7	297.1	434.2	686.6	685.1	536.6	385.1
357.7	82.5°	395.2	243.8	189.0	181.7	174.5	272.6	478.9	542.3	362.0	243.8
128.4	85°	157.2	145.7	111.1	102.4	73.6	128.4	251.0	360.6	269.7	176.0
33.2	87.5°	57.7	57.7	30.3	21.6	15.9	43.3	67.8	108.2	154.3	90.9
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>
3929.1
4233.5
4379.2
4350.3
4131.1
3774.8
3415.6
3147.3
2990.1
2928.1
2892.0
2856.0
2739.1
2472.3
2147.8
1846.3
1606.8
1443.9
1439.5
1426.5
1329.9
1161.1
1064.5
1024.1
990.9
918.8
869.8
813.5
751.5
679.4
647.6
504.8
340.4
242.3
180.3
89.4
0.0

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