

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: P941385

Luminaire Tested: **GALN-SB4D-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24597 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

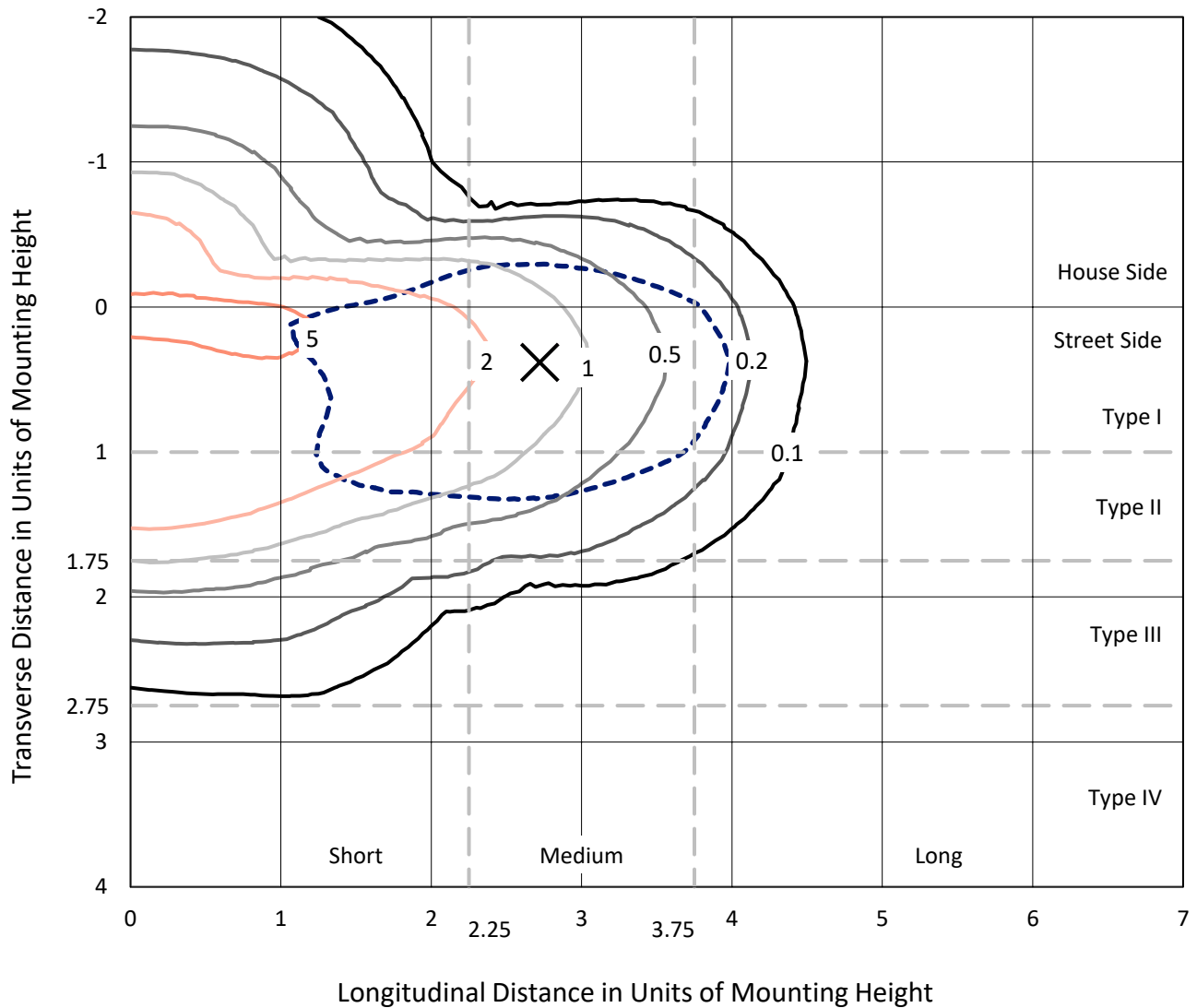
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

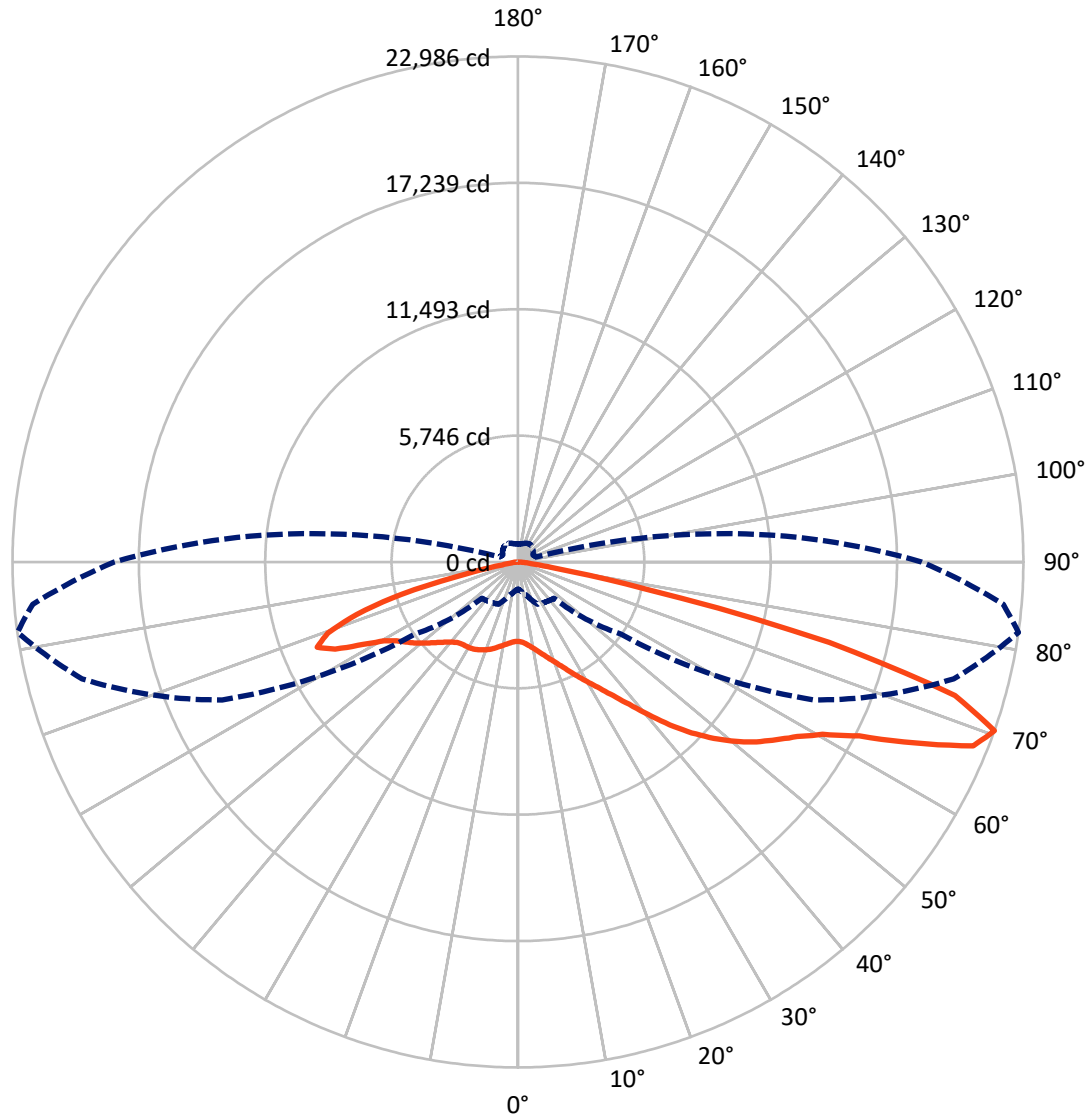
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6063.8	0.0	6063.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18533.2	0.0	18533.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	24597.0	0.0	24597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	1.4
10°-20°	978.3	4.0
20°-30°	1636.5	6.7
30°-40°	2556.7	10.4
40°-50°	4071.8	16.6
50°-60°	5666.4	23.0
60°-70°	5927.3	24.1
70°-80°	3097.9	12.6
80°-90°	321.7	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°	24597.0	100.0
0°-180°	24597.0	100.0

Coefficient of Utilization



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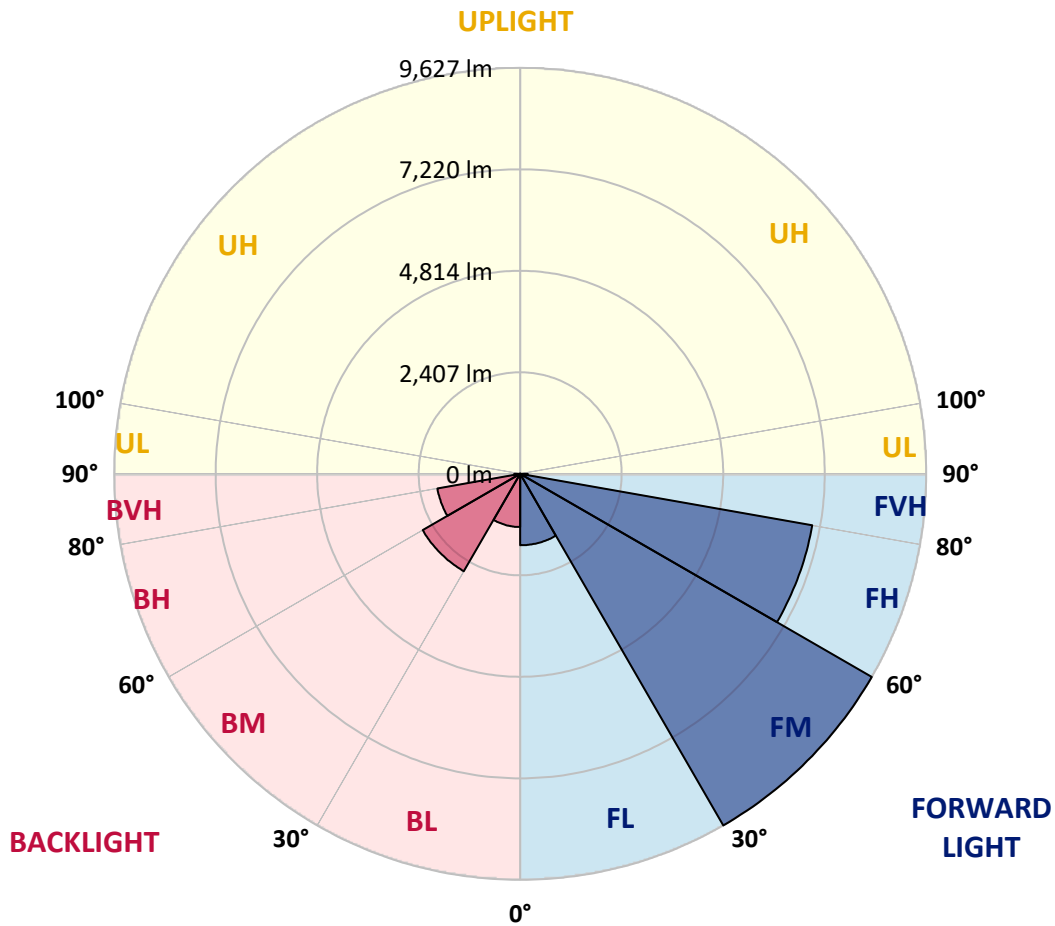
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.8	6.9			
FM (30°-60°)	9627.0	39.1			
FH (60°-80°)	7032.4	28.6			G3/7500
FVH (80°-90°)	180.1	0.7			G2/225
BL (0°-30°)	1261.5	5.1	B3/2500		
BM (30°-60°)	2667.8	10.8	B3/5000		
BH (60°-80°)	1992.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	141.6	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2
2.5°	3692.4	3713.3	3706.7	3700.2	3700.2	3691.1	3689.8	3676.7	3666.3	3649.3
5°	3739.4	3761.5	3758.9	3764.2	3781.1	3785.0	3789.0	3781.1	3760.2	3739.4
7.5°	3697.6	3722.4	3730.2	3761.5	3813.8	3860.7	3896.0	3910.3	3890.8	3860.7
10°	3556.6	3584.0	3611.4	3685.8	3778.5	3889.5	3983.4	4039.5	4035.6	4006.9
12.5°	3270.8	3299.5	3358.2	3503.1	3672.8	3868.6	4043.5	4160.9	4201.4	4180.5
15°	3042.4	3067.2	3111.6	3260.4	3480.9	3778.5	4065.7	4294.1	4397.2	4385.4
17.5°	3035.9	3046.3	3073.7	3144.2	3313.9	3637.6	4042.2	4424.6	4621.7	4620.4
20°	3150.7	3154.6	3170.3	3184.7	3281.2	3530.5	3982.1	4532.9	4873.6	4873.6
22.5°	3310.0	3307.3	3323.0	3310.0	3356.9	3521.4	3944.3	4628.2	5154.2	5175.1
25°	3548.8	3535.7	3531.8	3501.8	3510.9	3606.2	3986.0	4736.5	5487.0	5530.1
27.5°	3867.3	3846.4	3832.0	3762.9	3739.4	3781.1	4113.9	4867.0	5857.7	5932.1
30°	4282.3	4244.5	4223.6	4103.5	4018.7	4025.2	4307.1	5040.6	6245.3	6365.4
32.5°	4848.8	4790.0	4733.9	4536.8	4381.5	4330.6	4556.4	5280.8	6665.6	6857.4
35°	5483.1	5436.1	5376.1	5072.0	4833.1	4715.6	4893.1	5616.2	7157.6	7461.7
37.5°	6093.9	6053.5	6082.2	5672.3	5364.3	5193.3	5334.3	6066.5	7764.5	8213.5
40°	6725.6	6694.3	6698.2	6306.7	5947.7	5755.9	5869.4	6631.6	8460.2	9107.6
42.5°	7412.1	7388.7	7310.3	6963.2	6559.9	6381.1	6485.5	7284.2	9206.8	10125.6
45°	8180.9	8166.5	8093.5	7695.4	7233.3	7032.3	7173.3	8004.7	9957.3	11083.6
47.5°	8845.2	8857.0	8847.9	8512.4	8033.4	7738.4	7906.8	8756.5	10655.5	11984.2
50°	9165.0	9226.4	9316.4	9212.0	8914.4	8614.2	8646.9	9482.2	11321.2	12828.7
52.5°	8997.9	9114.1	9359.5	9526.5	9641.4	9578.8	9491.3	10202.6	11947.7	13590.9
55°	8375.4	8538.5	8945.7	9349.0	9935.1	10390.6	10505.4	11001.4	12558.5	14261.8
57.5°	7241.2	7506.1	7871.6	8687.3	9674.0	10783.4	11687.9	12109.5	13205.9	14978.3
60°	5296.4	5651.5	6105.7	7319.5	8760.4	10573.3	12694.2	13811.5	14126.0	15906.3
62.5°	3389.6	3608.8	4026.5	5169.8	6826.1	9496.5	13002.3	15938.9	15685.7	17428.1
65°	2320.6	2461.6	2844.0	3486.2	4412.8	7068.9	12177.4	17533.9	18163.0	19840.1
67.5°	1686.3	1793.3	2119.6	2682.2	2875.3	4183.1	9449.5	17460.8	20571.0	22325.2
70°	1229.5	1305.2	1579.3	2119.6	2212.3	2327.1	5724.5	14842.6	20518.8	22985.6
72.5°	911.0	963.2	1147.3	1644.5	1790.7	1571.4	2833.6	10787.4	17631.8	20790.3
75°	659.1	698.3	834.0	1258.2	1433.1	1196.9	1413.5	6304.0	12298.8	14624.6
77.5°	503.8	533.8	622.6	921.5	1147.3	898.0	877.1	2900.1	5831.6	5860.3
80°	404.6	424.2	472.5	648.7	879.7	672.2	571.7	1170.8	1842.9	1559.7
82.5°	297.6	330.2	399.4	455.5	629.1	463.3	348.5	591.2	700.9	603.0
85°	169.7	191.9	241.5	326.3	402.0	283.2	199.7	262.3	326.3	267.6
87.5°	60.0	78.3	84.8	127.9	174.9	117.5	77.0	75.7	107.0	79.6
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°
3606.2	0°	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2	3606.2
3645.4	2.5°	3632.3	3625.8	3599.7	3564.5	3527.9	3492.7	3480.9	3456.1	3439.2	3430.0
3730.2	5°	3705.4	3684.5	3623.2	3544.9	3462.7	3373.9	3311.3	3253.8	3212.1	3172.9
3846.4	7.5°	3809.8	3773.3	3667.6	3530.5	3384.3	3236.9	3127.2	3043.7	2987.6	2951.0
3982.1	10°	3931.2	3875.1	3713.3	3508.3	3282.5	3071.1	2941.9	2870.1	2834.9	2815.3
4137.4	12.5°	4070.9	3991.3	3760.2	3457.4	3127.2	2885.8	2797.0	2776.1	2777.4	2778.7
4333.2	15°	4243.2	4132.2	3798.1	3346.5	2924.9	2743.5	2727.8	2761.8	2797.0	2814.0
4555.1	17.5°	4437.6	4281.0	3804.6	3163.8	2726.5	2652.1	2701.7	2774.8	2828.3	2851.8
4803.1	20°	4646.5	4432.4	3757.6	2905.3	2563.4	2577.7	2666.5	2760.5	2819.2	2849.2
5086.3	22.5°	4885.3	4594.3	3645.4	2633.9	2430.3	2496.8	2601.2	2692.6	2753.9	2784.0
5419.1	25°	5158.1	4775.7	3469.2	2405.5	2315.4	2405.5	2509.9	2585.6	2635.2	2662.6
5791.1	27.5°	5460.9	4964.9	3234.2	2224.0	2214.9	2311.5	2397.6	2456.4	2482.5	2503.3
6186.6	30°	5765.0	5137.2	2949.7	2087.0	2127.5	2218.8	2280.2	2306.3	2314.1	2318.0
6627.7	32.5°	6093.9	5286.0	2650.8	1973.4	2043.9	2128.8	2165.3	2177.0	2140.5	2115.7
7162.9	35°	6492.0	5445.2	2358.5	1883.4	1961.7	2034.8	2046.5	2036.1	1993.0	1942.1
7833.7	37.5°	6984.0	5643.6	2124.8	1819.4	1884.7	1933.0	1918.6	1916.0	1919.9	1859.9
8640.3	40°	7587.0	5902.0	1953.9	1769.8	1822.0	1832.5	1792.0	1814.2	1833.8	1742.4
9525.2	42.5°	8256.6	6214.0	1845.5	1735.9	1769.8	1745.0	1682.4	1707.2	1704.6	1584.5
10414.1	45°	8939.2	6553.3	1807.7	1711.1	1721.5	1671.9	1602.8	1609.3	1554.5	1446.1
11266.4	47.5°	9617.9	6917.5	1831.2	1690.2	1661.5	1605.4	1551.9	1523.2	1442.2	1361.3
12083.4	50°	10283.6	7299.9	1917.3	1648.4	1579.3	1546.6	1507.5	1456.6	1370.4	1301.3
12856.1	52.5°	10900.9	7684.9	2013.9	1579.3	1476.2	1495.7	1470.9	1412.2	1327.4	1256.9
13587.0	55°	11485.6	8070.0	2051.8	1484.0	1379.6	1451.4	1437.0	1328.7	1226.9	1169.4
14351.8	57.5°	12122.6	8533.3	2010.0	1362.6	1301.3	1400.5	1345.6	1225.6	1166.8	1123.8
15347.7	60°	13004.9	9260.3	1919.9	1212.5	1226.9	1324.8	1230.8	1181.2	1117.2	1068.9
16840.8	62.5°	14470.6	10616.4	1775.1	1063.7	1139.4	1212.5	1176.0	1126.4	1061.1	1014.1
19393.8	65°	16637.2	12501.1	1502.3	947.6	1041.5	1102.9	1117.2	1067.6	999.8	950.2
21630.8	67.5°	18464.5	13683.6	1136.8	851.0	941.0	1014.1	1054.6	1006.3	934.5	886.2
22154.2	70°	18364.0	12824.8	867.9	755.7	852.3	926.7	978.9	941.0	864.0	818.4
20123.4	72.5°	16310.9	10728.6	702.2	659.1	762.2	835.3	898.0	869.3	790.9	746.6
14742.1	75°	11982.9	7615.8	561.2	561.2	650.0	740.0	809.2	790.9	719.2	687.8
6189.2	77.5°	5051.1	3195.1	439.8	466.0	540.3	635.6	721.8	728.3	665.6	704.8
1636.7	80°	1343.0	881.0	335.4	366.8	424.2	524.7	627.8	625.2	557.3	520.8
608.2	82.5°	511.6	347.2	238.8	258.4	306.7	402.0	497.3	512.9	445.1	385.0
238.8	85°	197.1	148.8	147.5	155.3	178.8	266.3	375.9	388.9	335.4	284.5
66.6	87.5°	50.9	44.4	54.8	52.2	82.2	142.3	215.4	223.2	204.9	118.8
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>
3606.2
3440.5
3188.6
2958.9
2820.5
2781.4
2812.7
2857.1
2857.1
2791.8
2670.4
2511.2
2327.1
2123.5
1944.7
1863.8
1745.0
1583.2
1450.1
1361.3
1296.0
1258.2
1164.2
1119.8
1066.3
1014.1
952.8
887.5
822.3
746.6
678.7
639.5
484.2
385.0
293.7
169.7
0.0

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