

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: P944645

Luminaire Tested: **GALN-SB9C-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944645
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-SB9C-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48978 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

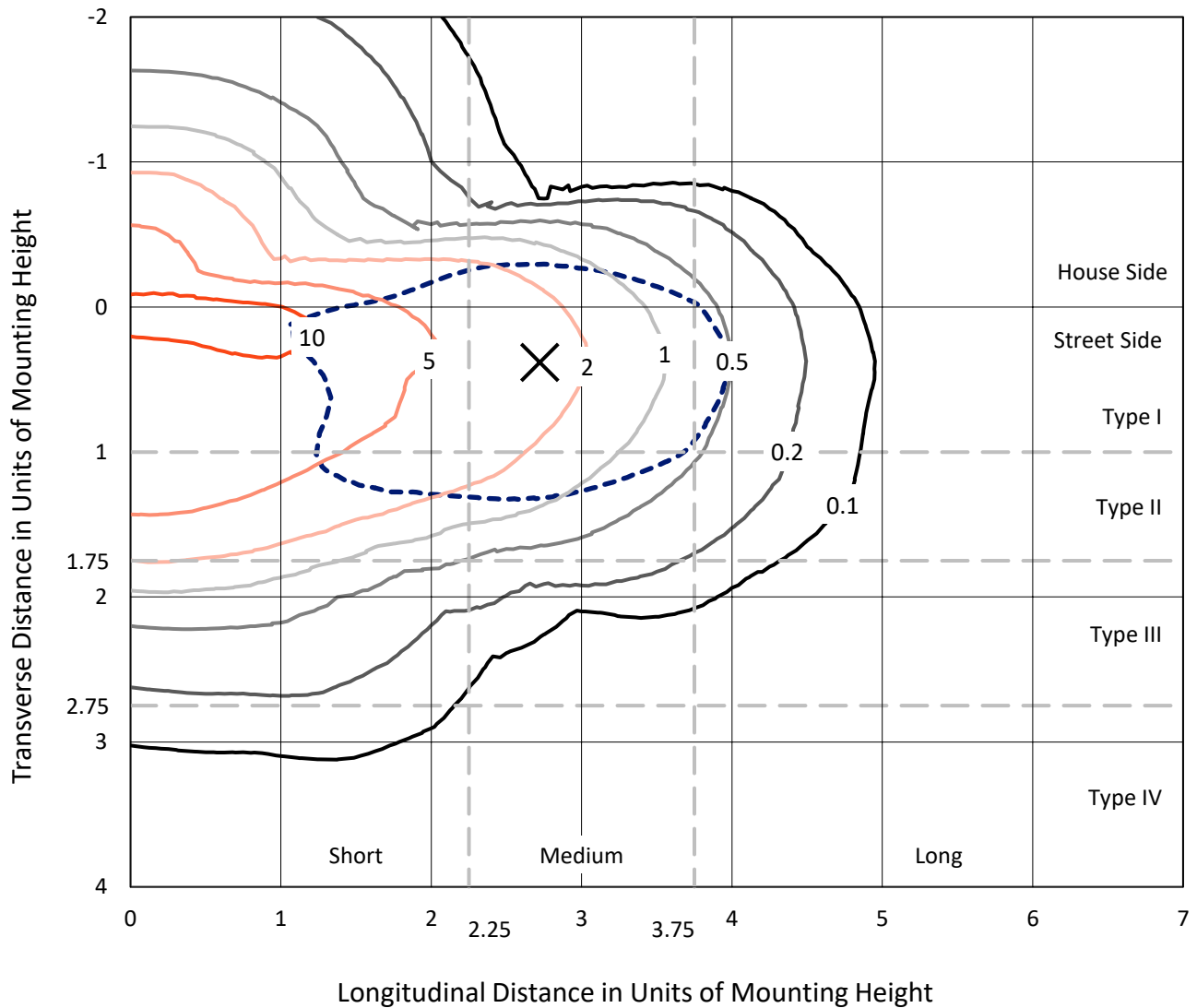
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

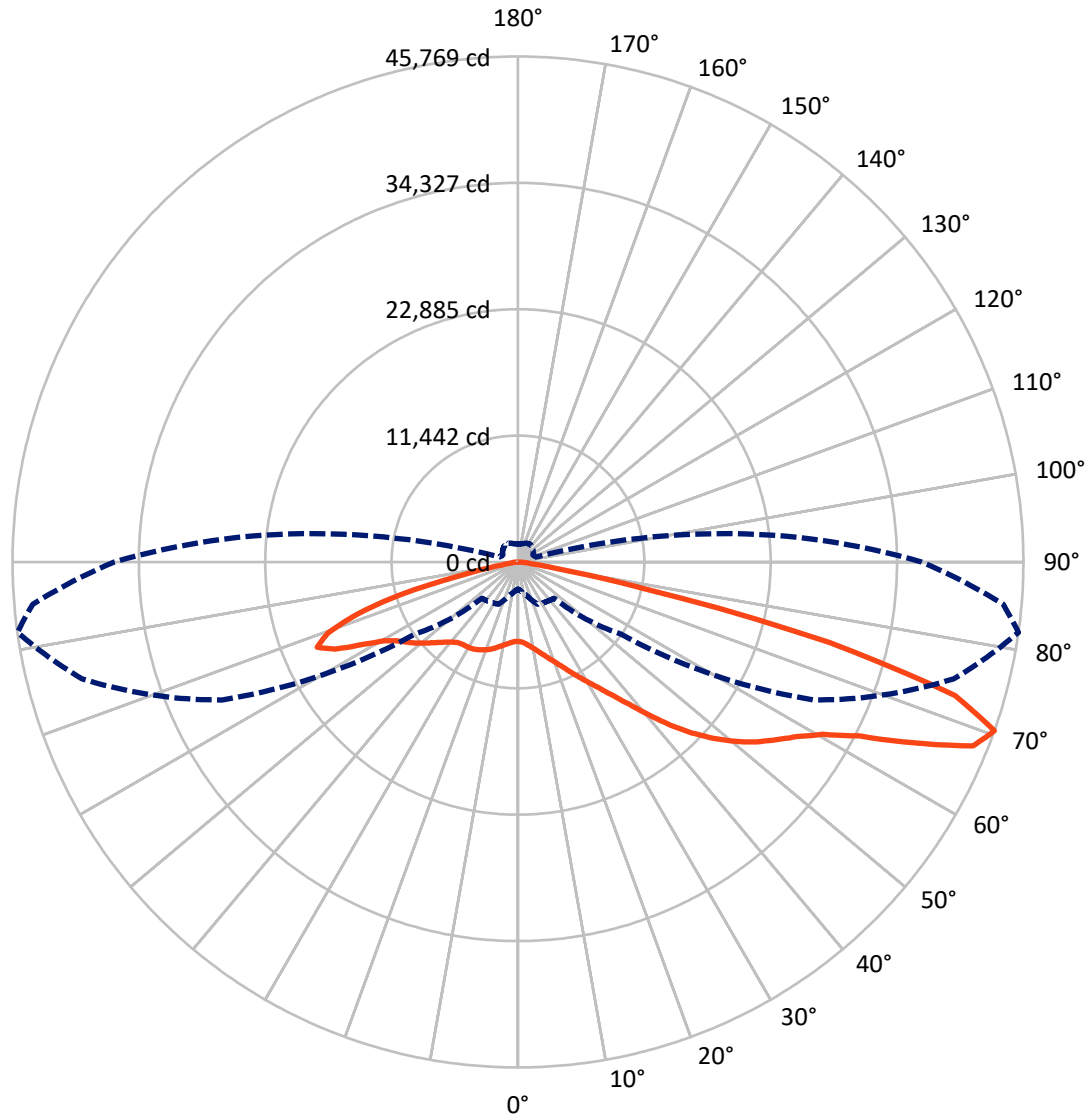
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	12074.3	0.0	12074.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	36903.7	0.0	36903.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	48978.0	0.0	48978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.0	1.4
10°-20°	1947.9	4.0
20°-30°	3258.7	6.7
30°-40°	5090.9	10.4
40°-50°	8107.8	16.6
50°-60°	11283.0	23.0
60°-70°	11802.5	24.1
70°-80°	6168.6	12.6
80°-90°	640.5	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°	48978.0	100.0
0°-180°	48978.0	100.0

Coefficient of Utilization



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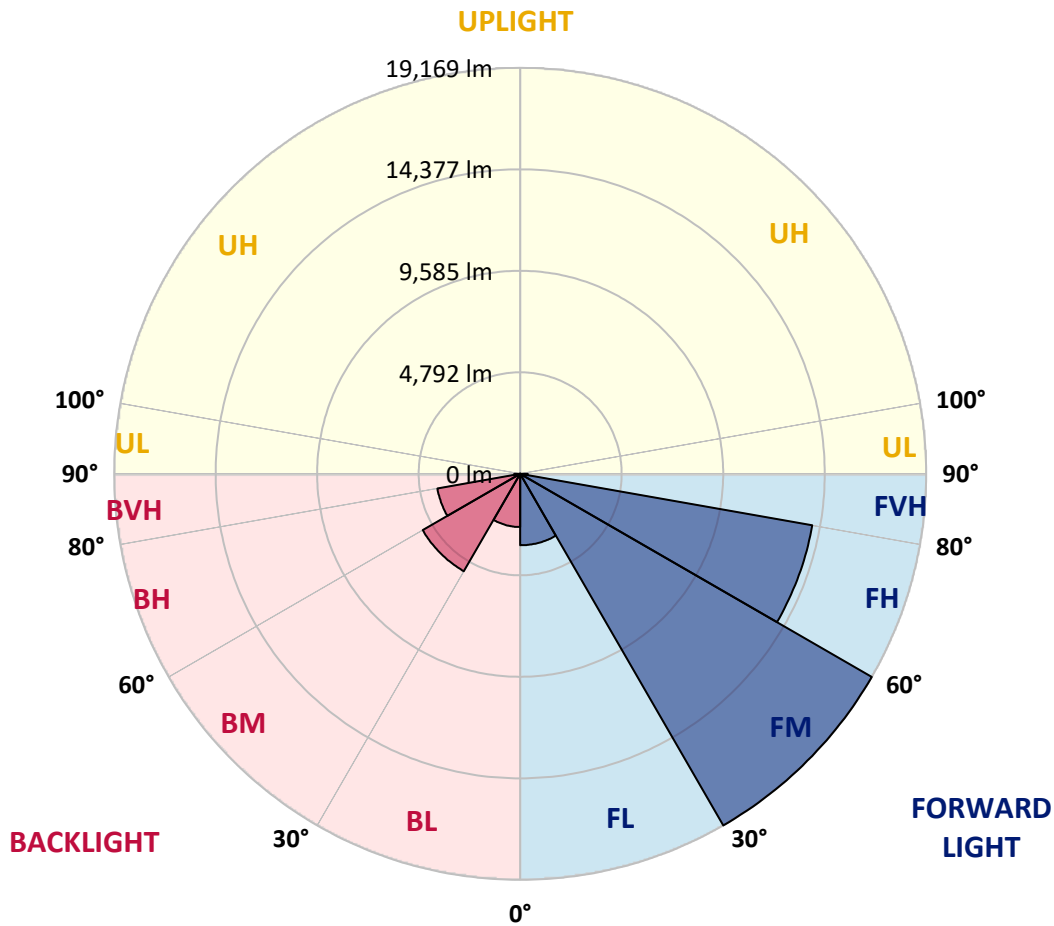
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3372.7	6.9			
FM (30°-60°)	19169.5	39.1			
FH (60°-80°)	14003.0	28.6			G5
FVH (80°-90°)	358.6	0.7			G3/500
BL (0°-30°)	2511.9	5.1	B4/5000		
BM (30°-60°)	5312.2	10.8	B4/8500		
BH (60°-80°)	3968.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	282.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8
2.5°	7352.3	7393.9	7380.9	7367.9	7367.9	7349.7	7347.1	7321.1	7300.3	7266.6
5°	7445.9	7490.1	7484.9	7495.3	7529.0	7536.8	7544.6	7529.0	7487.5	7445.9
7.5°	7362.7	7412.1	7427.7	7490.1	7594.0	7687.6	7757.7	7786.3	7747.3	7687.6
10°	7082.0	7136.6	7191.2	7339.3	7523.8	7744.8	7931.9	8043.6	8035.8	7978.7
12.5°	6512.9	6570.0	6687.0	6975.5	7313.3	7703.2	8051.4	8285.3	8365.9	8324.3
15°	6058.1	6107.4	6195.8	6492.1	6931.3	7523.8	8095.6	8550.4	8755.7	8732.3
17.5°	6045.1	6065.9	6120.4	6260.8	6598.6	7243.2	8048.8	8810.3	9202.7	9200.1
20°	6273.8	6281.6	6312.8	6341.3	6533.7	7030.1	7929.3	9026.0	9704.3	9704.3
22.5°	6590.8	6585.6	6616.8	6590.8	6684.4	7011.9	7853.9	9215.7	10263.1	10304.7
25°	7066.4	7040.4	7032.6	6972.9	6991.1	7180.8	7937.1	9431.4	10925.8	11011.6
27.5°	7700.6	7659.0	7630.4	7492.7	7445.9	7529.0	8191.8	9691.3	11663.9	11812.0
30°	8527.0	8451.7	8410.1	8171.0	8002.0	8015.0	8576.4	10037.0	12435.8	12674.9
32.5°	9654.9	9538.0	9426.2	9033.8	8724.5	8623.2	9072.8	10515.2	13272.6	13654.7
35°	10918.0	10824.5	10704.9	10099.4	9623.8	9389.9	9743.3	11183.1	14252.4	14858.0
37.5°	12134.3	12053.7	12110.9	11294.9	10681.5	10341.1	10621.7	12079.7	15460.9	16354.9
40°	13392.2	13329.8	13337.6	12557.9	11843.2	11461.2	11687.3	13205.1	16846.1	18135.2
42.5°	14759.2	14712.4	14556.5	13865.2	13062.1	12706.1	12914.0	14504.5	18332.7	20162.3
45°	16290.0	16261.4	16115.8	15323.2	14403.2	14002.9	14283.6	15939.1	19827.1	22069.9
47.5°	17612.8	17636.2	17618.0	16950.1	15996.3	15408.9	15744.2	17436.1	21217.5	23863.2
50°	18249.5	18371.7	18551.0	18343.1	17750.6	17152.8	17217.8	18881.1	22542.9	25544.7
52.5°	17916.9	18148.2	18636.8	18969.4	19198.1	19073.4	18899.3	20315.7	23790.4	27062.4
55°	16677.2	17002.1	17812.9	18616.0	19782.9	20689.9	20918.6	21906.2	25006.7	28398.3
57.5°	14418.8	14946.3	15674.0	17298.3	19263.1	21472.2	23273.2	24112.7	26295.8	29825.1
60°	10546.4	11253.3	12157.7	14574.7	17443.9	21053.8	25277.0	27501.7	28128.0	31672.9
62.5°	6749.4	7186.0	8017.6	10294.3	13592.3	18909.7	25890.3	31737.9	31233.7	34703.2
65°	4620.9	4901.5	5663.0	6941.7	8786.9	14075.7	24247.8	34913.8	36166.4	39506.0
67.5°	3357.8	3570.9	4220.6	5340.8	5725.4	8329.5	18816.1	34768.2	40961.4	44454.3
70°	2448.2	2598.9	3144.7	4220.6	4405.2	4633.9	11398.8	29554.8	40857.5	45769.4
72.5°	1814.0	1918.0	2284.4	3274.6	3565.7	3129.1	5642.2	21480.0	35108.7	41398.0
75°	1312.4	1390.4	1660.7	2505.3	2853.6	2383.2	2814.6	12552.7	24489.5	29120.8
77.5°	1003.2	1063.0	1239.7	1834.8	2284.4	1788.0	1746.5	5774.8	11611.9	11669.1
80°	805.7	844.6	940.8	1291.7	1751.7	1338.4	1138.3	2331.2	3669.7	3105.7
82.5°	592.6	657.5	795.3	907.0	1252.7	922.6	693.9	1177.3	1395.6	1200.7
85°	337.9	382.0	480.8	649.7	800.5	564.0	397.6	522.4	649.7	532.8
87.5°	119.5	155.9	168.9	254.7	348.3	233.9	153.3	150.7	213.1	158.5
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°
7180.8	0°	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8	7180.8
7258.8	2.5°	7232.8	7219.8	7167.8	7097.6	7024.9	6954.7	6931.3	6881.9	6848.1	6829.9
7427.7	5°	7378.3	7336.7	7214.6	7058.6	6894.9	6718.2	6593.4	6479.1	6395.9	6317.9
7659.0	7.5°	7586.2	7513.4	7302.9	7030.1	6739.0	6445.3	6227.0	6060.7	5948.9	5876.1
7929.3	10°	7827.9	7716.2	7393.9	6985.9	6536.3	6115.2	5857.9	5715.0	5644.8	5605.8
8238.5	12.5°	8106.0	7947.5	7487.5	6884.5	6227.0	5746.2	5569.5	5527.9	5530.5	5533.1
8628.4	15°	8449.1	8228.1	7562.8	6663.6	5824.2	5462.9	5431.7	5499.3	5569.5	5603.2
9070.2	17.5°	8836.3	8524.4	7575.8	6299.8	5429.1	5281.0	5379.7	5525.3	5631.8	5678.6
9564.0	20°	9252.1	8825.9	7482.3	5785.2	5104.3	5132.8	5309.6	5496.7	5613.6	5673.4
10128.0	22.5°	9727.7	9148.2	7258.8	5244.6	4839.2	4971.7	5179.6	5361.6	5483.7	5543.5
10790.7	25°	10270.9	9509.4	6907.9	4789.8	4610.5	4789.8	4997.7	5148.4	5247.2	5301.8
11531.4	27.5°	10873.8	9886.3	6440.1	4428.5	4410.3	4602.7	4774.2	4891.1	4943.1	4984.7
12318.8	30°	11479.4	10229.3	5873.5	4155.7	4236.2	4418.1	4540.3	4592.3	4607.9	4615.7
13197.3	32.5°	12134.3	10525.6	5278.4	3929.6	4069.9	4238.8	4311.6	4335.0	4262.2	4212.8
14262.8	35°	12927.0	10842.7	4696.2	3750.2	3906.2	4051.7	4075.1	4054.3	3968.5	3867.2
15598.7	37.5°	13906.8	11237.7	4231.0	3622.9	3752.8	3849.0	3820.4	3815.2	3823.0	3703.4
17204.8	40°	15107.5	11752.3	3890.6	3524.1	3628.1	3648.9	3568.3	3612.5	3651.5	3469.5
18966.8	42.5°	16440.7	12373.4	3674.9	3456.5	3524.1	3474.7	3350.0	3399.4	3394.2	3155.1
20736.7	45°	17799.9	13049.1	3599.5	3407.2	3428.0	3329.2	3191.5	3204.5	3095.3	2879.6
22433.8	47.5°	19151.4	13774.2	3646.3	3365.6	3308.4	3196.7	3090.1	3032.9	2871.8	2710.7
24060.7	50°	20476.8	14535.7	3817.8	3282.4	3144.7	3079.7	3001.7	2900.4	2728.9	2591.1
25599.3	52.5°	21706.1	15302.4	4010.1	3144.7	2939.4	2978.4	2929.0	2812.0	2643.1	2502.7
27054.6	55°	22870.4	16069.1	4085.5	2955.0	2747.0	2890.0	2861.4	2645.7	2443.0	2328.6
28577.6	57.5°	24138.7	16991.7	4002.3	2713.3	2591.1	2788.6	2679.5	2440.4	2323.4	2237.7
30560.6	60°	25895.5	18439.3	3823.0	2414.4	2443.0	2637.9	2450.8	2352.0	2224.7	2128.5
33533.7	62.5°	28814.1	21139.5	3534.5	2118.1	2268.8	2414.4	2341.6	2242.9	2112.9	2019.4
38617.2	65°	33128.3	24892.4	2991.3	1886.8	2073.9	2196.1	2224.7	2125.9	1990.8	1892.0
43071.7	67.5°	36766.8	27247.0	2263.7	1694.5	1873.8	2019.4	2099.9	2003.8	1860.8	1764.7
44113.9	70°	36566.7	25536.9	1728.3	1504.8	1697.1	1845.2	1949.2	1873.8	1720.5	1629.5
40070.0	72.5°	32478.6	21363.0	1398.2	1312.4	1517.8	1663.3	1788.0	1730.9	1574.9	1486.6
29354.7	75°	23860.6	15164.6	1117.5	1117.5	1294.3	1473.6	1611.3	1574.9	1432.0	1369.6
12324.0	77.5°	10057.8	6362.1	875.8	927.8	1075.9	1265.7	1437.2	1450.2	1325.4	1403.4
3259.0	80°	2674.3	1754.3	667.9	730.3	844.6	1044.8	1250.1	1244.9	1109.7	1037.0
1211.1	82.5°	1018.8	691.3	475.6	514.6	610.7	800.5	990.2	1021.4	886.2	766.7
475.6	85°	392.4	296.3	293.7	309.3	356.1	530.2	748.5	774.5	667.9	566.6
132.5	87.5°	101.4	88.4	109.2	104.0	163.7	283.3	428.8	444.4	408.0	236.5
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>
7180.8
6850.7
6349.1
5891.7
5616.2
5538.3
5600.7
5689.0
5689.0
5559.1
5317.4
5000.3
4633.9
4228.4
3872.4
3711.2
3474.7
3152.5
2887.4
2710.7
2580.7
2505.3
2318.2
2229.9
2123.3
2019.4
1897.2
1767.3
1637.3
1486.6
1351.4
1273.5
964.2
766.7
584.8
337.9
0.0

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