

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: P941375

Luminaire Tested: **GALN-SB4D-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941375
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-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38653 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

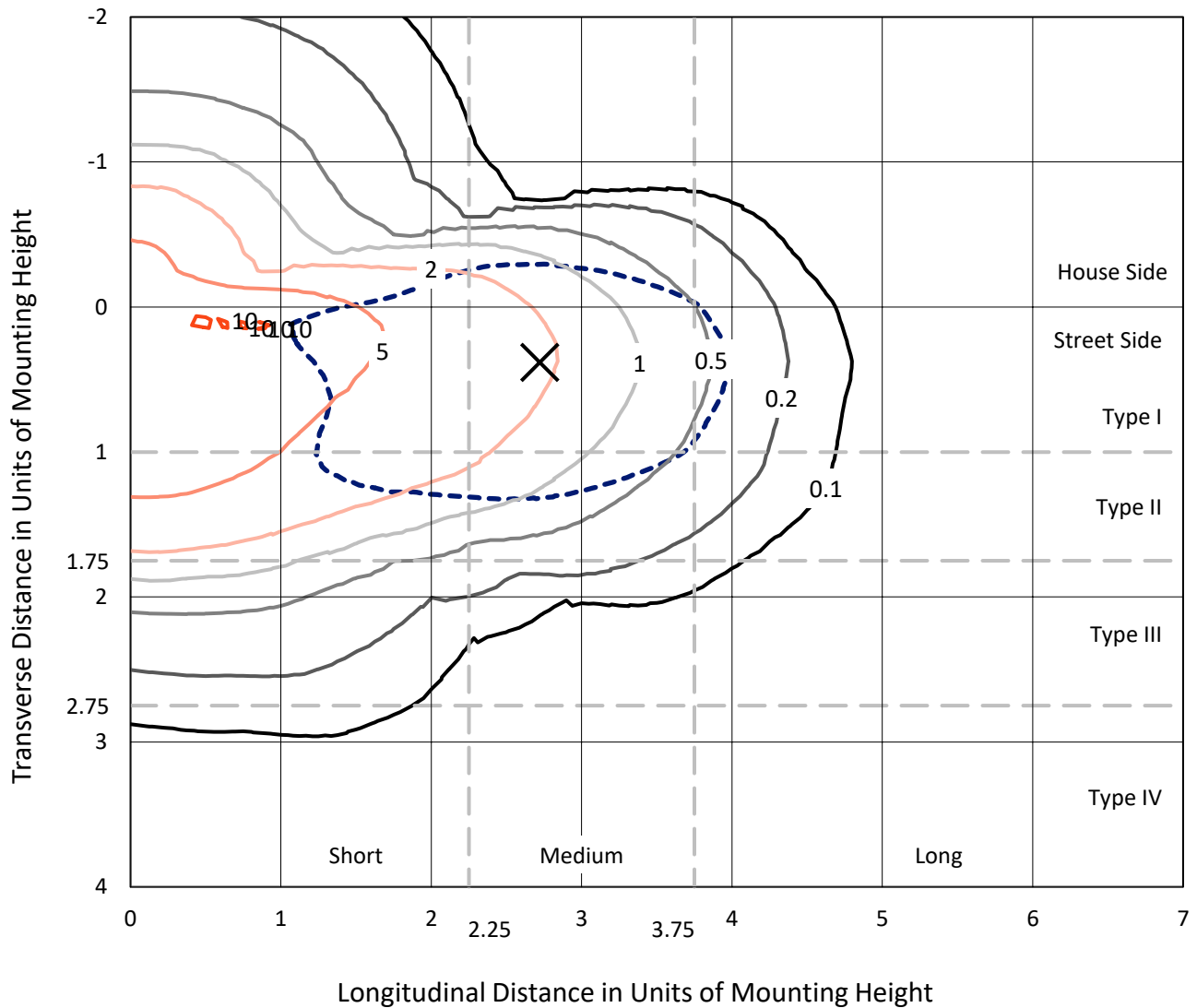
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

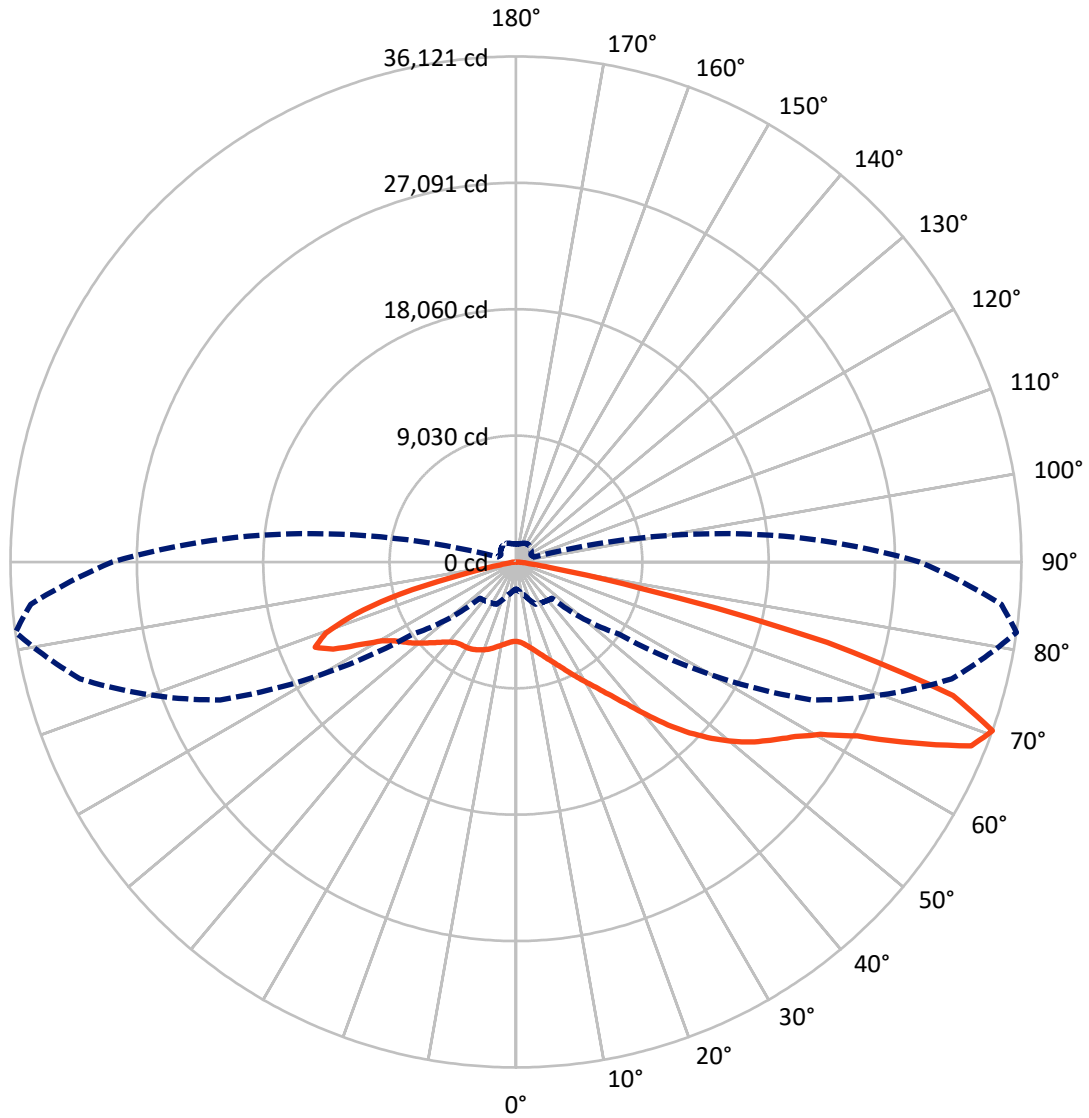
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	9528.9	0.0	9528.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	29124.1	0.0	29124.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	38653.0	0.0	38653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.1	1.4
10°-20°	1537.3	4.0
20°-30°	2571.7	6.7
30°-40°	4017.7	10.4
40°-50°	6398.6	16.6
50°-60°	8904.5	23.0
60°-70°	9314.5	24.1
70°-80°	4868.2	12.6
80°-90°	505.5	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°	38653.0	100.0
0°-180°	38653.0	100.0

Coefficient of Utilization



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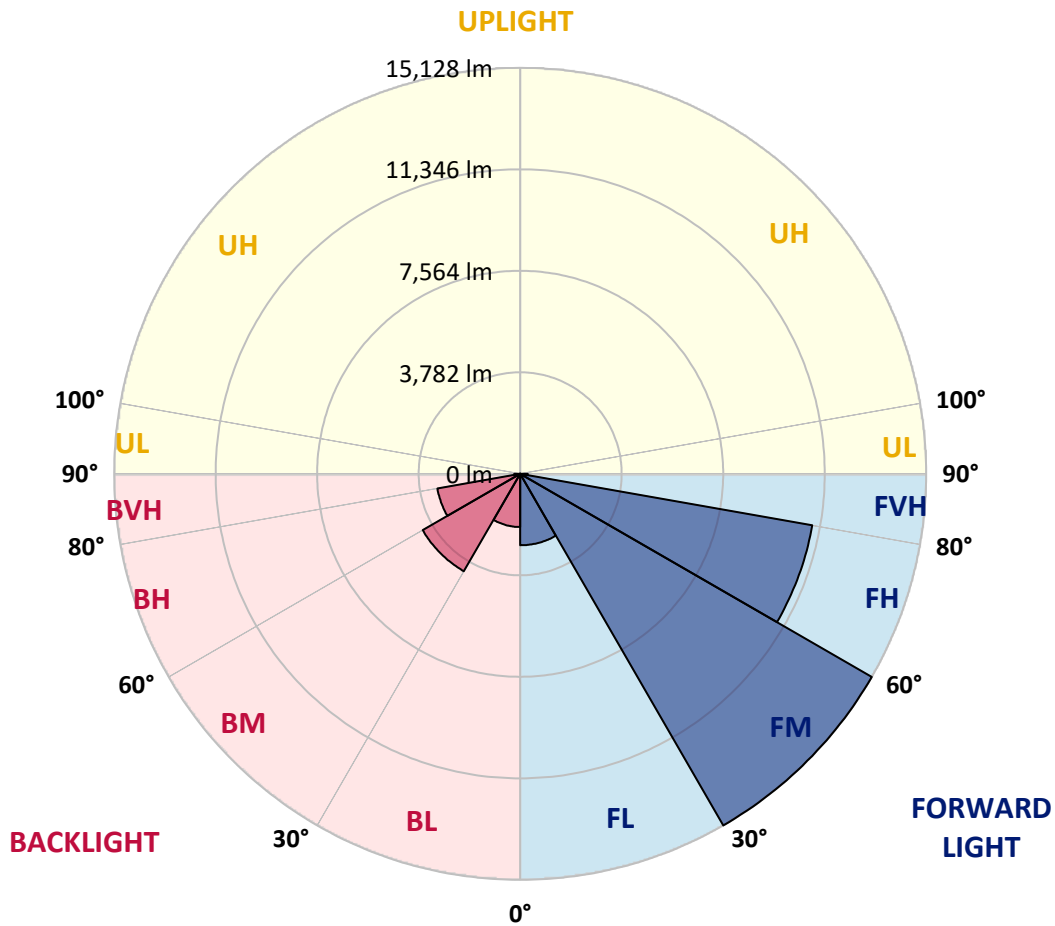
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2661.7	6.9			
FM (30°-60°)	15128.4	39.1			
FH (60°-80°)	11051.0	28.6			G4/12000
FVH (80°-90°)	283.0	0.7			G3/500
BL (0°-30°)	1982.4	5.1	B3/2500		
BM (30°-60°)	4192.3	10.8	B3/5000		
BH (60°-80°)	3131.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	222.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0
2.5°	5802.4	5835.2	5824.9	5814.7	5814.7	5800.3	5798.3	5777.8	5761.4	5734.7
5°	5876.2	5911.1	5907.0	5915.2	5941.9	5948.0	5954.2	5941.9	5909.0	5876.2
7.5°	5810.6	5849.6	5861.9	5911.1	5993.1	6067.0	6122.3	6144.9	6114.1	6067.0
10°	5589.1	5632.1	5675.2	5792.1	5937.7	6112.1	6259.8	6348.0	6341.8	6296.7
12.5°	5139.9	5185.0	5277.3	5505.0	5771.6	6079.3	6354.1	6538.7	6602.3	6569.5
15°	4781.0	4819.9	4889.7	5123.5	5470.1	5937.7	6389.0	6747.9	6909.9	6891.5
17.5°	4770.7	4787.1	4830.2	4940.9	5207.6	5716.2	6352.1	6953.0	7262.7	7260.7
20°	4951.2	4957.4	4982.0	5004.5	5156.3	5548.1	6257.7	7123.2	7658.6	7658.6
22.5°	5201.4	5197.3	5221.9	5201.4	5275.3	5533.7	6198.2	7273.0	8099.5	8132.4
25°	5576.8	5556.3	5550.1	5502.9	5517.3	5667.0	6263.9	7443.2	8622.6	8690.2
27.5°	6077.2	6044.4	6021.8	5913.1	5876.2	5941.9	6464.9	7648.3	9205.1	9322.0
30°	6729.4	6670.0	6637.2	6448.5	6315.1	6325.4	6768.4	7921.1	9814.2	10002.9
32.5°	7619.6	7527.3	7439.1	7129.4	6885.3	6805.3	7160.2	8298.5	10474.6	10776.1
35°	8616.4	8542.6	8448.2	7970.3	7595.0	7410.4	7689.3	8825.6	11247.9	11725.8
37.5°	9576.3	9512.7	9557.8	8913.8	8429.8	8161.1	8382.6	9533.2	12201.6	12907.2
40°	10569.0	10519.8	10525.9	9910.6	9346.6	9045.1	9223.5	10421.3	13294.8	14312.1
42.5°	11647.8	11610.9	11487.9	10942.3	10308.5	10027.5	10191.6	11446.8	14468.0	15911.9
45°	12855.9	12833.3	12718.5	12092.9	11366.8	11051.0	11272.5	12579.0	15647.4	17417.4
47.5°	13899.9	13918.3	13904.0	13376.9	12624.1	12160.6	12425.2	13760.4	16744.7	18832.6
50°	14402.4	14498.8	14640.3	14476.2	14008.6	13536.8	13588.1	14900.8	17790.7	20159.6
52.5°	14139.8	14322.4	14708.0	14970.5	15151.0	15052.6	14915.1	16033.0	18775.2	21357.4
55°	13161.5	13417.9	14057.8	14691.6	15612.5	16328.3	16508.8	17288.2	19735.1	22411.7
57.5°	11379.1	11795.5	12369.8	13651.7	15202.3	16945.7	18367.0	19029.5	20752.4	23537.7
60°	8323.1	8881.0	9594.7	11502.2	13766.6	16615.4	19948.4	21704.1	22198.4	24996.0
62.5°	5326.5	5671.1	6327.4	8124.2	10726.9	14923.3	20432.4	25047.3	24649.4	27387.5
65°	3646.7	3868.3	4469.2	5478.3	6934.6	11108.4	19136.2	27553.6	28542.2	31177.8
67.5°	2649.9	2818.1	3330.9	4214.9	4518.4	6573.6	14849.5	27438.8	32326.4	35083.0
70°	1932.1	2051.0	2481.8	3330.9	3476.5	3657.0	8995.8	23324.4	32244.3	36120.8
72.5°	1431.6	1513.7	1802.9	2584.3	2814.0	2469.4	4452.8	16951.8	27707.4	32671.0
75°	1035.8	1097.3	1310.6	1977.2	2252.0	1880.8	2221.3	9906.5	19326.9	22981.9
77.5°	791.7	838.9	978.3	1448.0	1802.9	1411.1	1378.3	4557.4	9164.0	9209.2
80°	635.8	666.6	742.5	1019.4	1382.4	1056.3	898.4	1839.8	2896.1	2451.0
82.5°	467.6	518.9	627.6	715.8	988.6	728.1	547.6	929.1	1101.4	947.6
85°	266.6	301.5	379.4	512.8	631.7	445.1	313.8	412.3	512.8	420.5
87.5°	94.3	123.1	133.3	201.0	274.8	184.6	121.0	119.0	168.2	125.1
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°
5667.0	0°	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0	5667.0
5728.5	2.5°	5708.0	5697.8	5656.8	5601.4	5544.0	5488.6	5470.1	5431.1	5404.5	5390.1
5861.9	5°	5822.9	5790.1	5693.7	5570.6	5441.4	5301.9	5203.5	5113.2	5047.6	4986.1
6044.4	7.5°	5987.0	5929.5	5763.4	5548.1	5318.3	5086.6	4914.3	4783.0	4694.8	4637.4
6257.7	10°	6177.7	6089.5	5835.2	5513.2	5158.4	4826.1	4623.0	4510.2	4454.9	4424.1
6501.8	12.5°	6397.2	6272.1	5909.0	5433.2	4914.3	4534.8	4395.4	4362.6	4364.6	4366.7
6809.4	15°	6667.9	6493.6	5968.5	5258.9	4596.4	4311.3	4286.7	4340.0	4395.4	4422.0
7158.1	17.5°	6973.5	6727.4	5978.8	4971.7	4284.6	4167.7	4245.6	4360.5	4444.6	4481.5
7547.8	20°	7301.7	6965.3	5904.9	4565.6	4028.2	4050.8	4190.3	4337.9	4430.2	4477.4
7992.9	22.5°	7677.0	7219.6	5728.5	4139.0	3819.0	3923.6	4087.7	4231.3	4327.7	4374.9
8515.9	25°	8105.7	7504.7	5451.7	3780.1	3638.5	3780.1	3944.1	4063.1	4141.0	4184.1
9100.4	27.5°	8581.5	7802.1	5082.5	3495.0	3480.6	3632.4	3767.8	3860.1	3901.1	3933.9
9721.9	30°	9059.4	8072.9	4635.3	3279.6	3343.2	3486.8	3583.2	3624.2	3636.5	3642.6
10415.2	32.5°	9576.3	8306.7	4165.7	3101.2	3211.9	3345.2	3402.7	3421.1	3363.7	3324.7
11256.1	35°	10201.9	8556.9	3706.2	2959.6	3082.7	3197.6	3216.0	3199.6	3131.9	3051.9
12310.3	37.5°	10975.1	8868.7	3339.1	2859.1	2961.7	3037.6	3015.0	3010.9	3017.1	2922.7
13577.9	40°	11922.7	9274.8	3070.4	2781.2	2863.2	2879.7	2816.1	2850.9	2881.7	2738.1
14968.5	42.5°	12974.9	9765.0	2900.2	2727.9	2781.2	2742.2	2643.8	2682.8	2678.7	2490.0
16365.2	45°	14047.5	10298.3	2840.7	2688.9	2705.3	2627.4	2518.7	2528.9	2442.8	2272.5
17704.5	47.5°	15114.1	10870.5	2877.6	2656.1	2611.0	2522.8	2438.7	2393.6	2266.4	2139.2
18988.5	50°	16160.1	11471.4	3013.0	2590.5	2481.8	2430.5	2368.9	2289.0	2153.6	2044.9
20202.7	52.5°	17130.3	12076.5	3164.7	2481.8	2319.7	2350.5	2311.5	2219.2	2085.9	1975.1
21351.3	55°	18049.1	12681.6	3224.2	2332.0	2167.9	2280.8	2258.2	2088.0	1928.0	1837.7
22553.2	57.5°	19050.0	13409.7	3158.6	2141.3	2044.9	2200.8	2114.6	1925.9	1833.6	1765.9
24118.1	60°	20436.5	14552.1	3017.1	1905.4	1928.0	2081.8	1934.1	1856.2	1755.7	1679.8
26464.5	62.5°	22739.8	16683.1	2789.4	1671.6	1790.6	1905.4	1848.0	1770.0	1667.5	1593.7
30476.3	65°	26144.6	19644.8	2360.7	1489.1	1636.7	1733.1	1755.7	1677.7	1571.1	1493.2
33991.8	67.5°	29016.0	21503.1	1786.5	1337.3	1478.8	1593.7	1657.2	1581.3	1468.5	1392.7
34814.3	70°	28858.1	20153.5	1363.9	1187.5	1339.3	1456.2	1538.3	1478.8	1357.8	1286.0
31622.9	72.5°	25631.8	16859.5	1103.5	1035.8	1197.8	1312.7	1411.1	1366.0	1242.9	1173.2
23166.5	75°	18830.6	11967.8	881.9	881.9	1021.4	1162.9	1271.6	1242.9	1130.1	1080.9
9726.0	77.5°	7937.5	5020.9	691.2	732.2	849.1	998.9	1134.2	1144.5	1046.0	1107.6
2572.0	80°	2110.5	1384.4	527.1	576.3	666.6	824.5	986.5	982.4	875.8	818.4
955.8	82.5°	804.0	545.6	375.3	406.1	482.0	631.7	781.4	806.1	699.4	605.1
375.3	85°	309.7	233.8	231.8	244.1	281.0	418.4	590.7	611.2	527.1	447.1
104.6	87.5°	80.0	69.7	86.1	82.0	129.2	223.6	338.4	350.7	322.0	186.6
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>
5667.0
5406.5
5010.7
4649.7
4432.3
4370.8
4420.0
4489.7
4489.7
4387.2
4196.4
3946.2
3657.0
3337.0
3056.0
2928.9
2742.2
2487.9
2278.7
2139.2
2036.7
1977.2
1829.5
1759.8
1675.7
1593.7
1497.3
1394.7
1292.2
1173.2
1066.5
1005.0
760.9
605.1
461.5
266.6
0.0

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