

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: P944694

Luminaire Tested: **GALN-SB9D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67683 lumens
Efficiency: N/A
Efficacy: 102.9 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

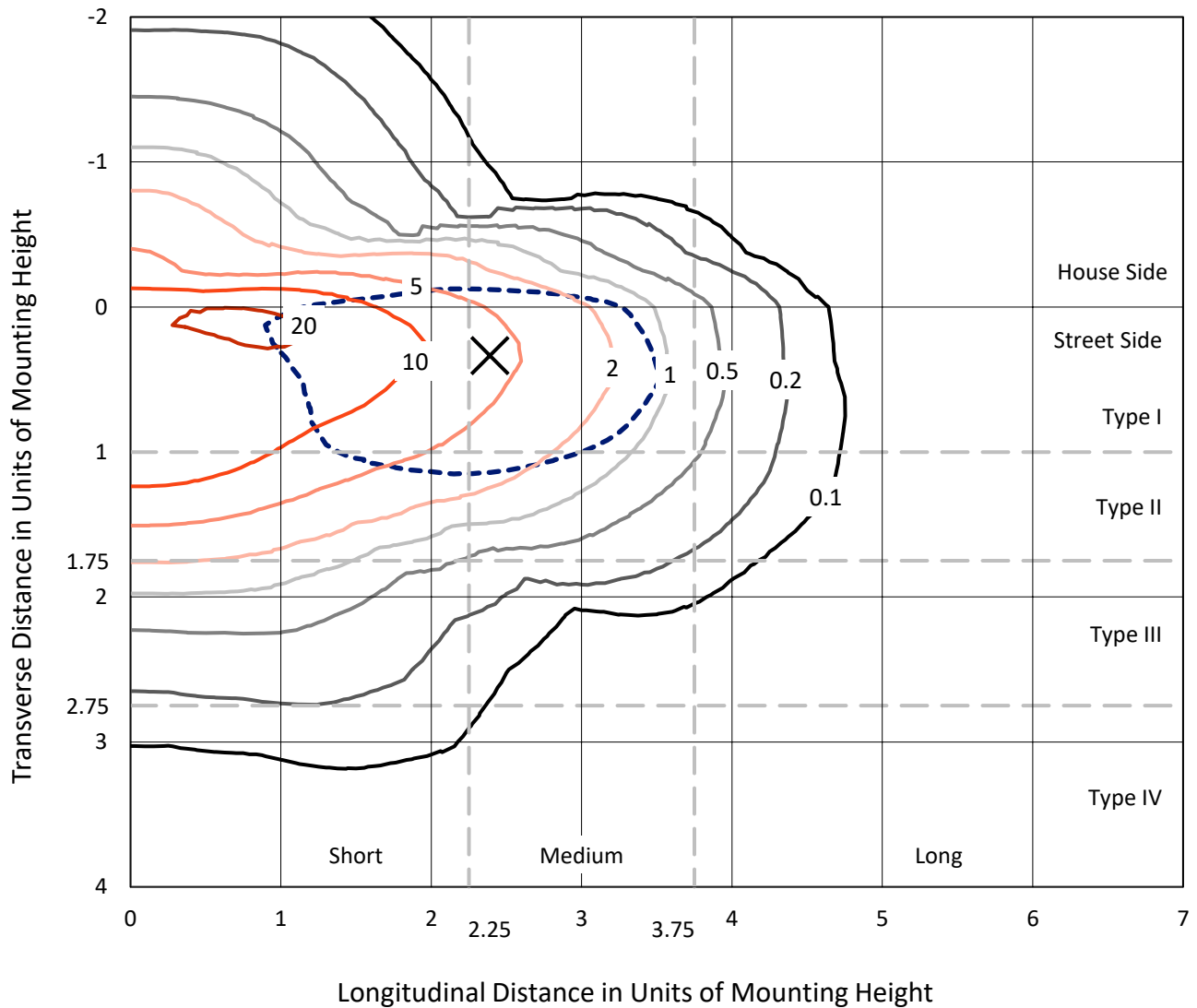
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

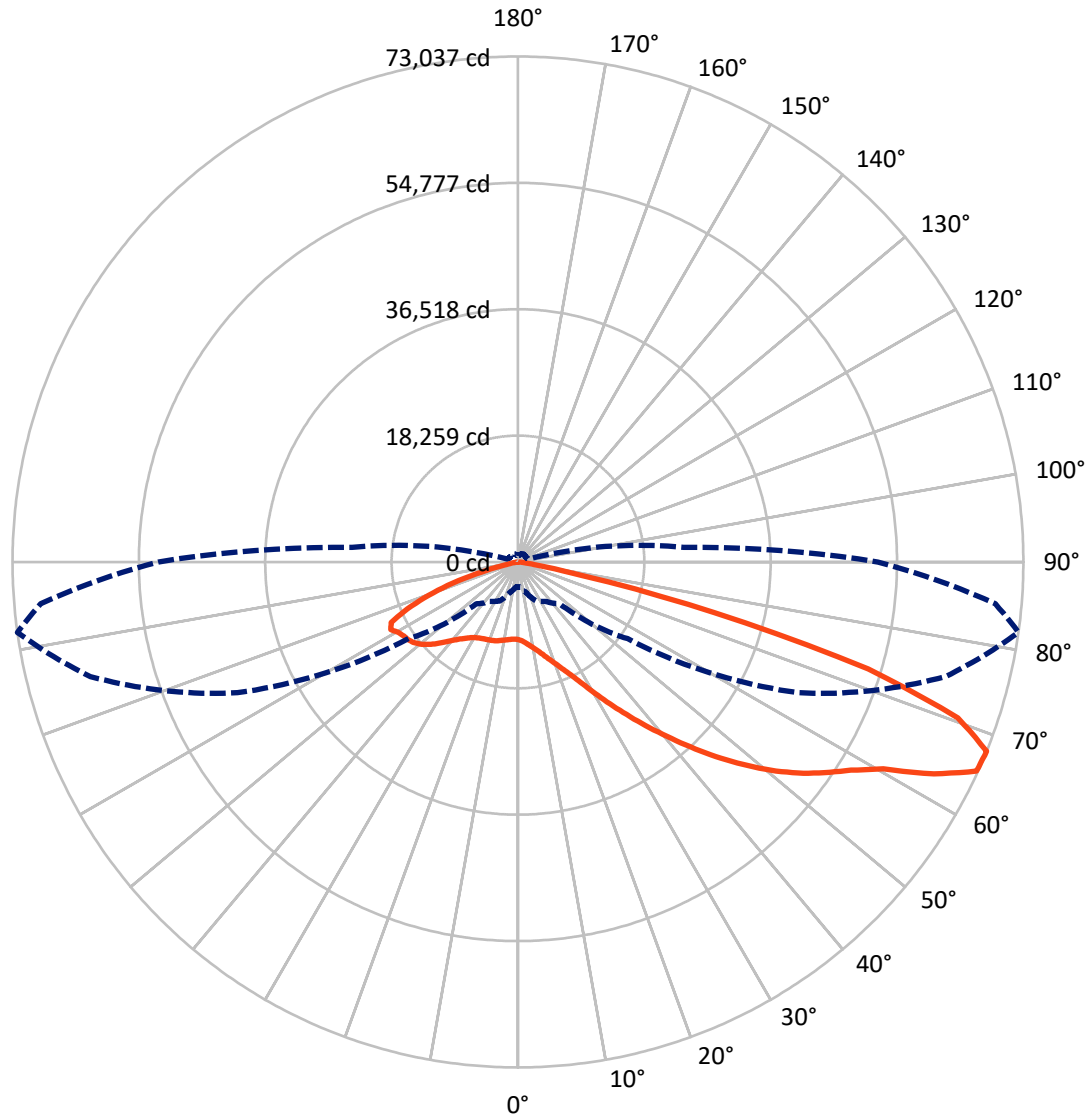
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12260.2	0.0	12260.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	55422.8	0.0	55422.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	67683.0	0.0	67683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.0	1.5
10°-20°	2595.9	3.8
20°-30°	4157.9	6.1
30°-40°	7352.4	10.9
40°-50°	12882.1	19.0
50°-60°	17181.1	25.4
60°-70°	15994.7	23.6
70°-80°	6138.7	9.1
80°-90°	381.3	0.6
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°	67683.0	100.0
0°-180°	67683.0	100.0

Coefficient of Utilization



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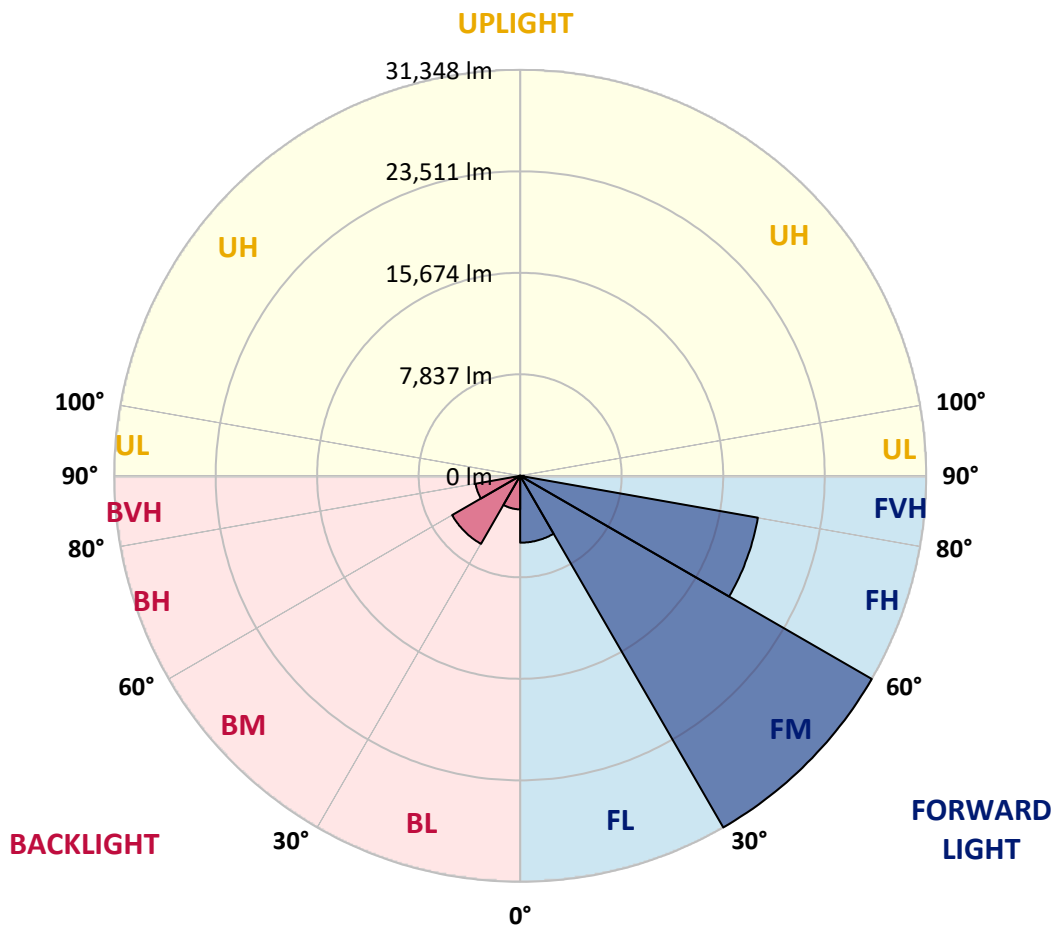
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5163.5	7.6			
FM (30°-60°)	31348.0	46.3			
FH (60°-80°)	18634.2	27.5			G5
FVH (80°-90°)	277.2	0.4			G3/500
BL (0°-30°)	2589.3	3.8	B4/5000		
BM (30°-60°)	6067.5	9.0	B4/8500		
BH (60°-80°)	3499.3	5.2	B4/5000		G4/5000
BVH (80°-90°)	104.1	0.2			G2/225
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°	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8
2.5°	11851.1	11919.4	11880.4	11860.9	11826.8	11778.1	11739.1	11617.2	11490.5	11407.7
5°	12089.9	12158.1	12153.3	12172.8	12197.1	12211.7	12202.0	12065.6	11885.3	11743.9
7.5°	11885.3	11963.2	12026.6	12124.0	12294.6	12474.9	12562.6	12533.4	12348.2	12153.3
10°	11305.4	11388.2	11539.3	11768.3	12128.9	12518.7	12845.2	12996.3	12879.4	12664.9
12.5°	10243.1	10325.9	10623.1	11120.2	11724.4	12401.8	13025.5	13430.0	13459.2	13244.8
15°	9049.2	9132.0	9448.8	10072.5	10993.5	12080.2	13123.0	13888.1	14146.3	13961.2
17.5°	8308.5	8381.6	8620.3	9122.3	10082.2	11436.9	13088.9	14375.4	14965.0	14818.8
20°	8084.3	8147.7	8259.7	8610.6	9409.8	10769.3	12864.7	14833.4	15847.0	15764.2
22.5°	8323.1	8381.6	8415.7	8571.6	9073.5	10330.8	12582.1	15301.2	16870.3	16880.1
25°	8873.7	8932.2	8893.2	8990.7	9210.0	10194.3	12474.9	15851.9	18156.8	18264.0
27.5°	9780.1	9785.0	9692.4	9687.5	9721.6	10399.0	12587.0	16441.5	19779.5	19979.3
30°	11597.7	11524.7	11168.9	10784.0	10608.5	11013.0	12898.8	17138.4	21694.6	22050.3
32.5°	14399.7	14292.5	13639.5	12718.5	11792.7	12002.2	13459.2	17932.7	23780.3	24423.5
35°	17440.5	17411.2	16729.0	15359.7	13741.9	13410.5	14370.5	18975.5	26056.0	27079.3
37.5°	20266.8	20252.2	19862.4	18249.4	16280.7	15374.3	15832.4	20339.9	28492.5	29973.8
40°	22849.5	22893.4	22503.5	21061.1	19077.8	17893.7	17820.6	22026.0	31201.8	33126.7
42.5°	25081.4	25130.1	24735.4	23668.2	21840.8	20681.0	20262.0	24092.1	33847.9	36513.4
45°	26596.9	26899.0	26840.5	25987.7	24676.9	23473.3	23195.5	26684.6	36864.3	40104.8
47.5°	27025.7	27303.4	27742.0	27859.0	27059.8	25875.7	26207.0	29808.2	39914.8	43701.1
50°	25968.2	26226.5	27137.8	28351.1	28906.7	28541.2	29135.7	33155.9	43038.4	47287.6
52.5°	23882.6	24145.7	25295.8	27215.7	29481.7	30631.7	32074.1	36454.9	46064.5	50684.1
55°	20866.2	21144.0	22620.5	24793.8	28385.2	31494.2	34525.2	39749.1	48837.2	53739.5
57.5°	16763.1	16967.8	18502.8	21543.6	25627.1	30636.6	36333.1	43345.4	51449.2	56741.3
60°	10925.3	11105.6	12889.1	16280.7	21056.3	27771.3	36693.7	47355.9	54918.8	60644.5
62.5°	7265.6	7387.5	8444.9	10935.0	14828.6	22269.6	34583.7	50557.4	60006.2	67437.5
65°	4985.1	5106.9	6164.4	7899.1	9580.3	14731.1	28516.8	50133.5	64616.0	72831.9
67.5°	3557.3	3659.6	4556.3	6193.6	6934.3	8557.0	19331.2	44714.7	63953.3	73036.6
70°	2548.6	2607.1	3347.8	4824.3	5511.4	5141.0	10749.8	34198.7	55995.7	67442.4
72.5°	1783.5	1803.0	2324.4	3674.2	4439.3	3752.2	5116.7	22800.8	42351.3	52935.4
75°	1208.5	1232.9	1564.2	2694.8	3562.2	2865.3	2709.4	12226.4	24862.1	29301.4
77.5°	740.7	750.4	1008.7	1842.0	2665.5	2183.1	1744.5	5180.0	9619.3	9443.9
80°	419.1	419.1	643.2	1145.2	1817.6	1408.3	1223.1	2202.6	3045.6	2675.3
82.5°	233.9	238.8	467.8	711.5	1203.6	833.3	672.5	1018.5	1315.7	1164.6
85°	97.5	107.2	287.5	336.2	575.0	414.2	272.9	428.8	487.3	433.7
87.5°	9.7	14.6	87.7	63.3	68.2	82.8	39.0	82.8	68.2	68.2
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°
11212.8	0°	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8	11212.8
11378.5	2.5°	11285.9	11212.8	11027.6	10813.2	10530.6	10394.1	10208.9	10082.2	9975.0	9984.8
11661.1	5°	11505.2	11320.0	10905.8	10389.2	9746.0	9287.9	8800.6	8464.4	8191.5	8133.0
12050.9	7.5°	11807.3	11514.9	10788.8	9858.1	8771.4	7947.9	7212.0	6739.4	6403.1	6295.9
12523.6	10°	12197.1	11773.2	10637.8	9190.5	7626.3	6578.6	5789.1	5418.8	5189.7	5111.8
13079.1	12.5°	12650.3	12070.4	10438.0	8376.7	6447.0	5438.3	4936.4	4751.2	4678.1	4653.7
13761.4	15°	13220.5	12440.8	10135.8	7411.8	5448.0	4741.4	4527.0	4502.7	4512.4	4502.7
14580.0	17.5°	13897.8	12845.2	9643.7	6417.7	4775.5	4385.7	4307.7	4327.2	4351.6	4346.7
15496.2	20°	14638.5	13244.8	9015.1	5535.7	4317.5	4132.3	4088.5	4107.9	4127.4	4117.7
16553.6	22.5°	15481.5	13673.6	8318.2	4848.6	4010.5	3898.4	3849.7	3854.5	3854.5	3835.1
17893.7	25°	16490.2	14146.3	7587.3	4361.3	3776.6	3688.9	3630.4	3610.9	3581.7	3523.2
19521.3	27.5°	17693.9	14648.3	6885.6	4020.2	3591.4	3508.6	3440.3	3391.6	3318.5	3221.1
21475.3	30°	19048.6	15257.4	6291.0	3805.8	3445.2	3362.4	3284.4	3211.3	3104.1	2982.3
23721.8	32.5°	20642.0	15910.4	5857.4	3664.5	3313.6	3225.9	3133.3	3045.6	2928.7	2806.9
26246.0	35°	22542.5	16699.8	5604.0	3567.0	3211.3	3094.4	2992.0	2894.6	2806.9	2699.6
28989.5	37.5°	24603.8	17537.9	5526.0	3518.3	3143.1	2962.8	2845.8	2777.6	2767.9	2704.5
31957.2	40°	26860.0	18532.0	5584.5	3489.1	3070.0	2836.1	2709.4	2694.8	2719.1	2607.1
35129.5	42.5°	29247.8	19711.3	5681.9	3455.0	2967.7	2709.4	2587.6	2587.6	2568.1	2412.1
38482.1	45°	31830.5	21070.9	5779.4	3372.1	2845.8	2582.7	2490.1	2456.0	2373.2	2222.1
41854.2	47.5°	34432.6	22454.8	5852.5	3221.1	2699.6	2475.5	2392.6	2314.7	2192.9	2056.4
45163.0	50°	36903.3	23697.4	5774.5	2996.9	2534.0	2373.2	2285.4	2178.2	2046.7	1954.1
48296.3	52.5°	39110.7	24774.4	5443.1	2733.8	2358.5	2265.9	2188.0	2075.9	1968.7	1871.2
51122.7	55°	41030.7	25646.6	4858.4	2485.2	2202.6	2173.4	2095.4	1954.1	1807.9	1725.0
53924.7	57.5°	42872.7	26309.3	4127.4	2280.6	2061.3	2071.0	1954.1	1827.4	1690.9	1603.2
57701.2	60°	45323.8	27196.2	3386.7	2090.5	1910.2	1939.5	1812.8	1720.2	1549.6	1437.5
64177.5	62.5°	49241.7	28575.3	2689.9	1856.6	1734.8	1744.5	1690.9	1578.9	1374.2	1242.6
68977.4	65°	52350.7	28068.5	2119.8	1603.2	1535.0	1549.6	1549.6	1427.8	1208.5	1057.4
69235.6	67.5°	51999.8	24033.7	1690.9	1354.7	1344.9	1354.7	1388.8	1286.5	1072.1	950.2
63963.1	70°	47901.6	19116.8	1354.7	1125.7	1169.5	1145.2	1242.6	1174.4	964.9	843.0
49587.7	72.5°	39086.4	13771.1	1033.1	930.7	896.6	935.6	1120.8	1057.4	804.0	667.6
26265.5	75°	22839.8	7348.5	769.9	735.8	648.1	779.7	994.1	901.5	614.0	492.2
8050.2	77.5°	7436.2	2563.2	565.3	540.9	482.4	628.6	847.9	760.2	501.9	389.8
2358.5	80°	1993.1	774.8	385.0	355.7	311.9	467.8	672.5	604.3	360.6	253.4
1013.6	82.5°	799.2	326.5	224.2	199.8	170.6	321.6	531.2	487.3	268.0	160.8
316.7	85°	258.3	107.2	82.8	63.3	78.0	199.8	316.7	331.4	190.0	82.8
48.7	87.5°	34.1	14.6	14.6	19.5	14.6	34.1	97.5	92.6	53.6	9.7
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>
11212.8
9887.3
8001.5
6188.7
5053.3
4639.1
4497.8
4337.0
4112.8
3825.3
3513.4
3211.3
2972.5
2811.7
2689.9
2699.6
2611.9
2412.1
2217.2
2051.5
1939.5
1861.5
1715.3
1593.5
1422.9
1232.9
1042.8
930.7
828.4
653.0
477.6
375.2
248.5
160.8
63.3
0.0
0.0

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