

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: P956123

Luminaire Tested: **GALN-SB8D-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 79762 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

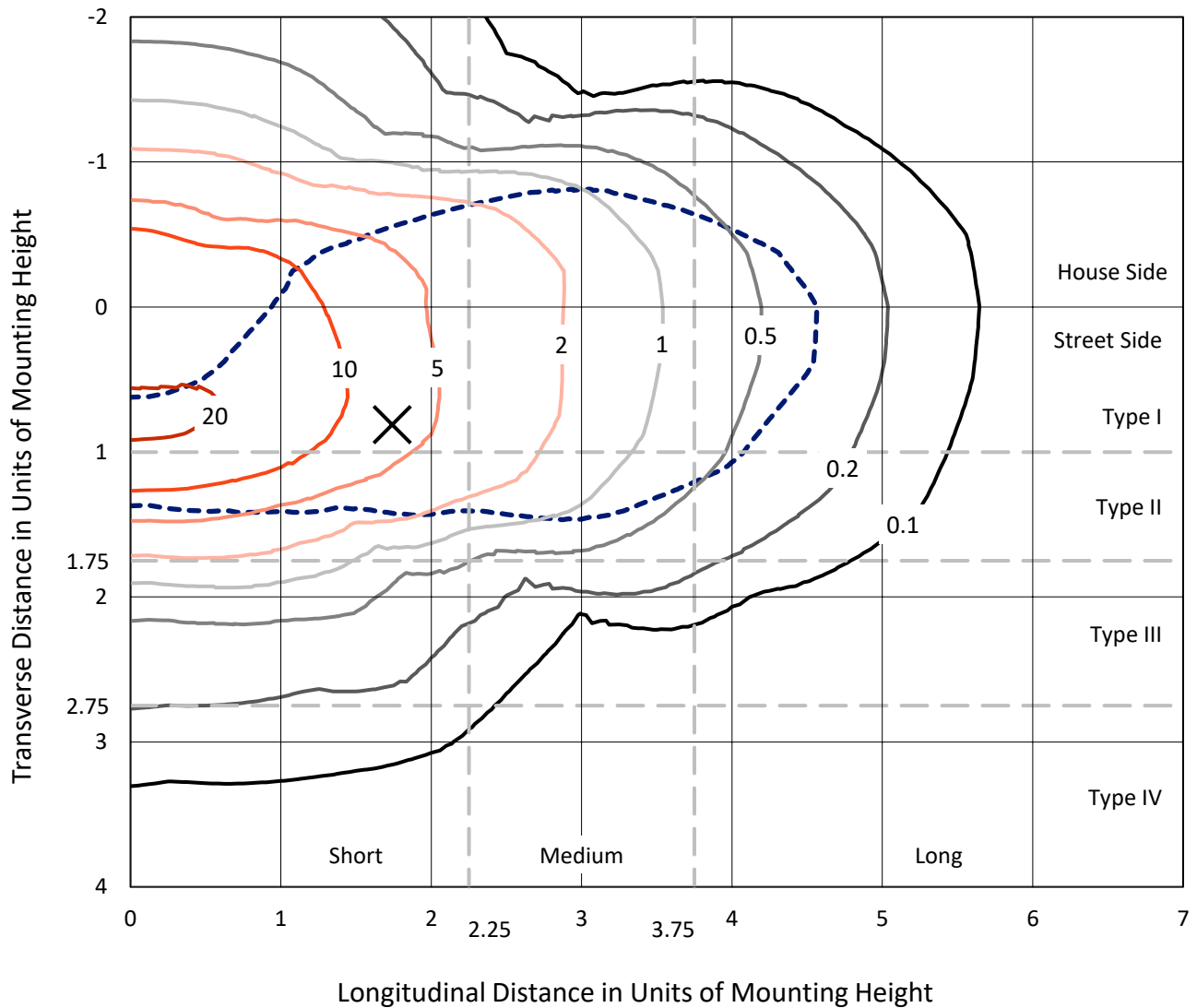
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

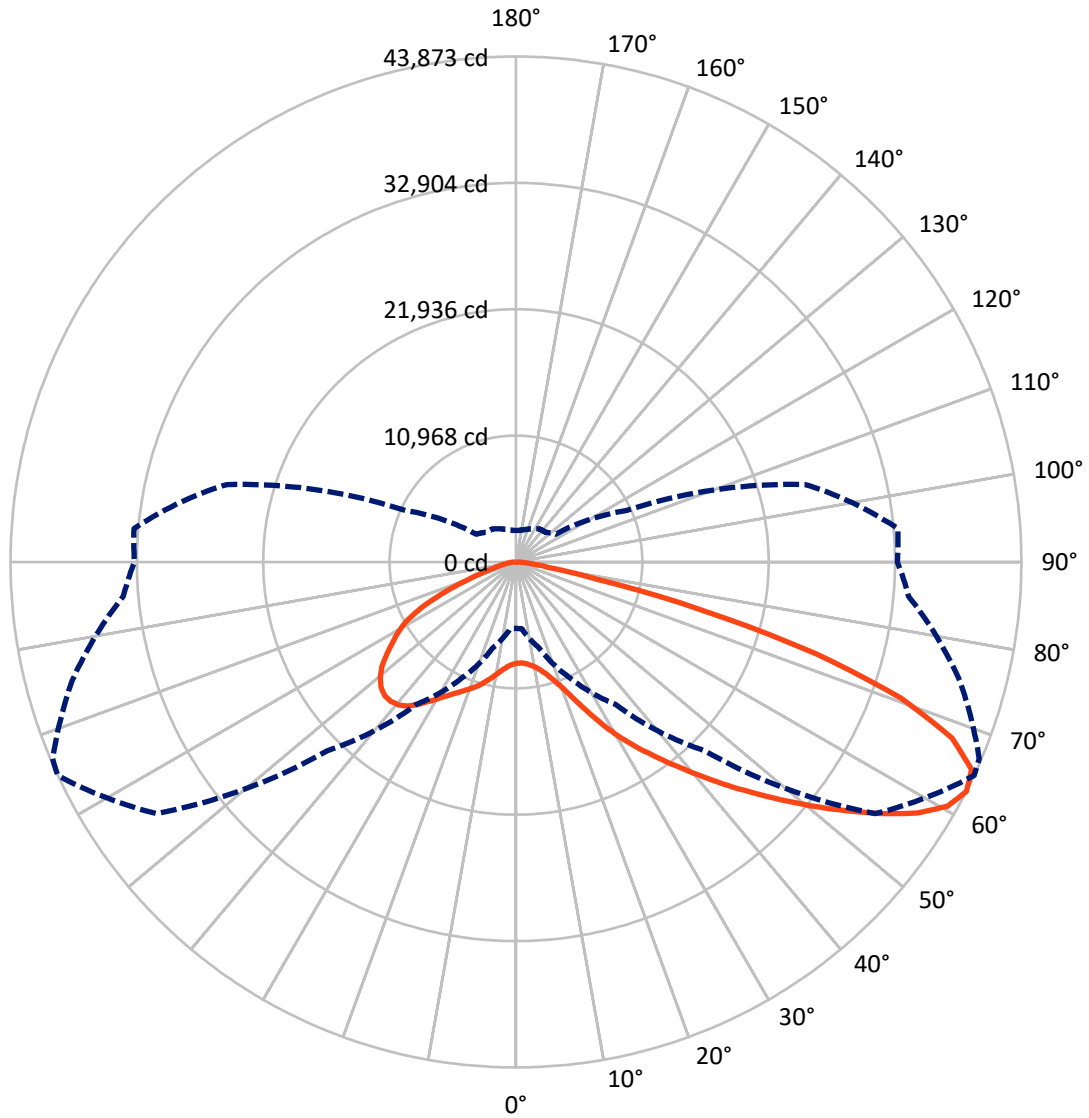
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25169.4	0.0	25169.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	54592.6	0.0	54592.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	79762.0	0.0	79762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.3	1.1
10°-20°	2971.6	3.7
20°-30°	6025.2	7.6
30°-40°	10426.6	13.1
40°-50°	15778.6	19.8
50°-60°	18499.4	23.2
60°-70°	15509.5	19.4
70°-80°	8562.5	10.7
80°-90°	1112.2	1.4
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°	79762.0	100.0
0°-180°	79762.0	100.0

Coefficient of Utilization

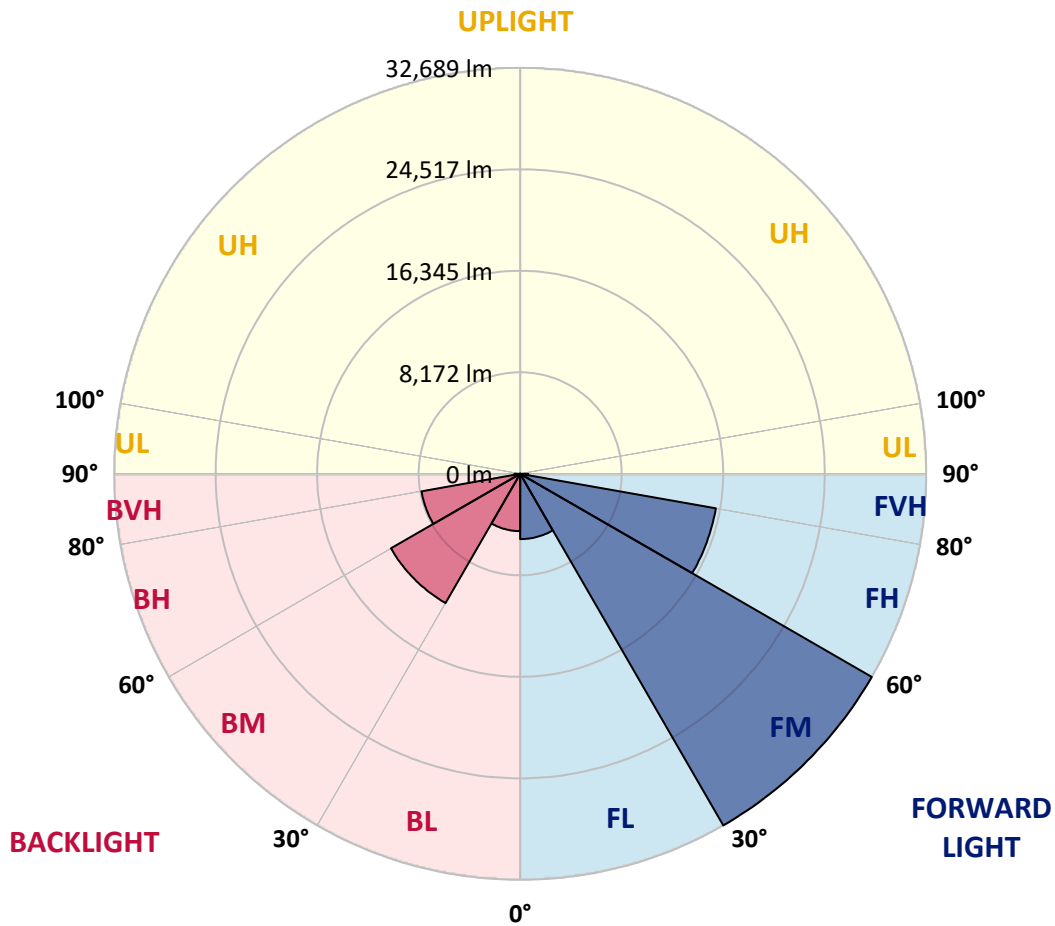


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5257.4	6.6			
FM (30°-60°)	32689.1	41.0			
FH (60°-80°)	15997.9	20.1			G5
FVH (80°-90°)	648.2	0.8			G4/750
BL (0°-30°)	4615.8	5.8	B4/5000		
BM (30°-60°)	12015.5	15.1	B5		
BH (60°-80°)	8074.1	10.1	B5		G5
BVH (80°-90°)	464.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4
2.5°	8731.5	8706.7	8727.4	8727.4	8735.6	8731.5	8760.5	8768.7	8781.2	8806.0
5°	8644.6	8640.5	8677.7	8710.8	8743.9	8772.9	8810.1	8863.9	8872.2	8901.2
7.5°	8615.6	8590.8	8648.7	8690.1	8768.7	8839.1	8938.4	9029.4	9066.7	9079.1
10°	8839.1	8797.7	8851.5	8876.3	8942.5	9012.9	9128.8	9273.6	9315.0	9364.6
12.5°	9219.8	9174.3	9252.9	9290.1	9352.2	9414.3	9492.9	9633.6	9654.3	9745.3
15°	9741.2	9687.4	9737.1	9782.6	9886.0	9944.0	10022.6	10159.2	10159.2	10229.5
17.5°	10448.8	10378.5	10415.7	10432.3	10498.5	10585.4	10717.8	10837.8	10899.9	10875.1
20°	11504.1	11417.2	11417.2	11334.4	11309.6	11379.9	11553.7	11719.2	11785.4	11657.2
22.5°	13089.0	12964.8	12894.5	12613.1	12501.3	12509.6	12683.4	12886.2	12940.0	12712.4
25°	15104.2	14909.7	14814.6	14400.8	14148.3	13929.0	14065.6	14326.3	14400.8	14119.4
27.5°	17119.5	17131.9	17040.9	16544.3	16126.4	15725.0	15654.6	15927.7	16006.4	15687.7
30°	19945.9	19652.1	19478.3	18882.4	18286.5	17723.7	17434.0	17545.7	17566.4	17185.7
32.5°	22383.2	22308.8	21936.3	21414.9	20649.4	19767.9	19283.8	19105.8	19072.7	18530.6
35°	25159.9	25118.6	24725.4	24104.7	23277.1	22052.2	21179.0	20670.0	20628.7	19867.2
37.5°	27982.2	27982.2	27597.3	26918.7	26062.1	24530.9	23202.6	22395.7	22263.2	21270.1
40°	30233.3	30096.8	30167.1	29881.6	28900.8	27274.5	25449.6	24278.5	24100.6	22908.8
42.5°	31512.0	31466.5	31888.6	32207.2	31805.8	30506.4	27924.2	26318.6	26070.3	24713.0
45°	31797.5	31747.9	32501.0	33668.0	34230.8	33696.9	30614.0	28466.3	28164.2	26600.0
47.5°	31139.6	31040.2	32145.1	33986.6	35790.8	36730.2	33527.3	30796.1	30357.5	28437.4
50°	29161.5	29066.4	30738.2	33183.8	36316.4	38791.0	36688.8	33266.6	32596.2	30407.1
52.5°	24862.0	24907.5	27527.0	30887.1	35625.3	40073.8	39411.7	35869.5	35062.5	32422.4
55°	19366.5	19465.8	22685.3	26384.8	32861.0	39879.3	41269.8	38551.0	37748.2	34317.7
57.5°	13866.9	14305.6	17322.3	20984.5	27551.8	36796.4	41675.3	41100.1	40322.1	36386.7
60°	8988.1	9066.7	12170.3	15861.5	20980.4	31317.5	40851.8	43032.6	42424.3	38497.2
62.5°	5760.3	5814.1	7705.2	11094.4	15100.1	23169.5	38079.2	43872.6	43686.4	39891.7
65°	4233.3	4191.9	5176.8	7332.8	10171.6	14289.0	32695.5	43467.1	43835.4	40764.9
67.5°	3534.0	3476.0	3960.2	5077.5	7494.2	8114.9	24191.6	40831.1	42180.1	40665.6
70°	3219.5	3169.8	3463.6	3769.9	5847.2	5433.4	12195.1	35497.0	37574.4	39535.9
72.5°	2727.0	2640.1	3041.5	3347.8	4547.8	4167.1	5040.3	27266.3	29798.8	35915.0
75°	2114.6	2056.7	2400.1	2946.4	3418.1	3252.6	3186.4	16556.7	19321.0	27775.2
77.5°	1675.9	1597.3	1911.8	2296.7	3074.6	2453.9	2321.5	7130.0	9869.5	17732.0
80°	1262.1	1191.8	1452.5	1816.6	2362.9	1849.8	1502.1	2909.1	3720.2	8983.9
82.5°	898.0	835.9	1013.8	1332.5	1589.0	1659.4	922.8	1630.4	1833.2	3463.6
85°	575.2	538.0	678.7	835.9	1009.7	1067.6	562.8	852.5	935.2	1427.7
87.5°	314.5	256.6	364.2	389.0	467.6	426.2	269.0	310.4	335.2	517.3
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°
8789.4	0°	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4	8789.4
8806.0	2.5°	8822.5	8834.9	8876.3	8888.7	8917.7	8955.0	8979.8	9004.6	9004.6	9029.4
8938.4	5°	8942.5	8971.5	9058.4	9103.9	9178.4	9252.9	9298.4	9352.2	9385.3	9401.9
9149.4	7.5°	9174.3	9219.8	9343.9	9422.6	9550.8	9654.3	9724.6	9799.1	9815.7	9861.2
9443.3	10°	9488.8	9542.6	9683.3	9832.2	9985.4	10113.6	10179.8	10233.6	10254.3	10262.6
9819.8	12.5°	9848.8	9927.4	10109.5	10291.6	10453.0	10564.7	10581.2	10568.8	10510.9	10461.2
10283.3	15°	10291.6	10361.9	10564.7	10763.3	10920.6	10941.3	10837.8	10771.6	10701.3	10688.8
10800.6	17.5°	10821.3	10858.5	11044.7	11239.2	11251.6	11181.3	11028.2	10966.1	10899.9	10854.4
11475.1	20°	11437.8	11425.4	11557.8	11640.6	11553.7	11338.5	11106.8	11003.3	10937.1	10883.3
12302.7	22.5°	12174.4	12079.3	12062.7	12042.0	11810.3	11359.2	11044.7	10912.3	10808.8	10734.4
13457.3	25°	13246.2	12882.1	12629.6	12488.9	11967.5	11247.5	10846.1	10552.3	10357.8	10229.5
14868.4	27.5°	14587.0	13974.5	13337.3	12993.8	11967.5	11019.9	10366.1	9890.2	9571.5	9439.1
16234.0	30°	15865.7	15224.2	14284.9	13602.1	11938.6	10647.5	9592.2	8930.1	8557.7	8425.3
17400.9	32.5°	16958.1	16258.8	15290.5	14268.3	11868.2	10043.3	8632.2	7899.7	7539.7	7382.5
18555.5	35°	17972.0	17227.1	16300.2	15000.8	11682.0	9157.7	7576.9	7018.3	6616.9	6364.5
19730.7	37.5°	19010.7	18125.1	17256.1	15662.9	11346.8	8123.2	6765.9	6290.0	5818.2	5478.9
20980.4	40°	20140.4	19081.0	18278.2	16056.0	10796.4	7138.3	6136.9	5702.4	5201.7	4841.6
22420.5	42.5°	21460.4	20227.3	19416.2	16258.8	10043.3	6439.0	5727.2	5301.0	4829.2	4535.4
23964.0	45°	22838.4	21489.4	20454.9	16254.6	9203.2	6112.0	5594.8	5172.7	4651.3	4345.1
25548.9	47.5°	24282.7	22809.5	21352.8	15989.8	8474.9	6157.6	5520.3	4895.4	4320.2	4022.3
27150.4	50°	25731.0	24253.7	22221.9	15493.2	8164.6	6058.2	5243.0	4506.4	3827.8	3558.8
28652.5	52.5°	27166.9	25788.9	22970.9	14785.6	7850.1	5690.0	4887.2	4001.6	3625.0	3438.8
30204.3	55°	28611.2	27307.6	23786.1	13755.2	7063.8	5259.6	4291.3	3811.2	3463.6	3294.0
31723.0	57.5°	30059.5	29062.2	24559.9	12724.8	6074.8	4729.9	3964.3	3579.5	3302.2	3157.4
32993.5	60°	31565.8	31069.2	25358.6	11777.2	5098.2	4051.2	3724.3	3393.3	3111.9	2950.5
34214.2	62.5°	33117.6	33279.0	25983.4	10556.4	4200.2	3637.4	3509.1	3169.8	2896.7	2743.6
35223.9	65°	34681.8	35410.1	26393.1	8863.9	3405.7	3244.3	3277.4	2925.7	2648.4	2516.0
35964.6	67.5°	35861.2	36945.4	26277.2	6707.9	2793.2	2871.9	2987.7	2669.1	2408.4	2304.9
35844.6	70°	35993.6	36763.3	25135.1	4593.3	2338.1	2507.7	2665.0	2416.7	2147.7	2073.2
34156.3	72.5°	34230.8	34280.4	21952.9	3000.2	1978.0	2201.5	2325.6	2160.1	1899.4	1824.9
29881.6	75°	29608.4	28350.5	16118.1	1978.0	1655.3	1891.1	2007.0	1891.1	1638.7	1655.3
22358.4	77.5°	22432.9	20078.3	9786.7	1407.0	1382.1	1589.0	1746.3	1663.5	1448.4	1626.3
11243.3	80°	11557.8	10862.6	4365.7	1051.1	1092.5	1270.4	1435.9	1328.3	1146.3	1092.5
2511.9	82.5°	2648.4	3078.8	1721.5	753.1	790.4	914.5	1096.6	997.3	823.5	695.2
1047.0	85°	926.9	1013.8	761.4	471.7	463.5	571.1	744.9	666.2	558.6	446.9
442.8	87.5°	293.8	384.8	285.5	190.4	198.6	256.6	343.5	314.5	260.7	169.7
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>
8789.4
9029.4
9410.1
9844.7
10241.9
10461.2
10688.8
10858.5
10887.5
10759.2
10279.2
9505.3
8503.9
7461.1
6447.2
5569.9
4912.0
4593.3
4394.7
4063.7
3575.4
3438.8
3277.4
3132.6
2938.1
2739.5
2511.9
2309.1
2077.4
1820.8
1597.3
1431.8
997.3
686.9
471.7
177.9
0.0

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