

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: P944744

Luminaire Tested: **GALN-SB9D-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944744
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-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 60816 lumens
Efficiency: N/A
Efficacy: 92.4 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

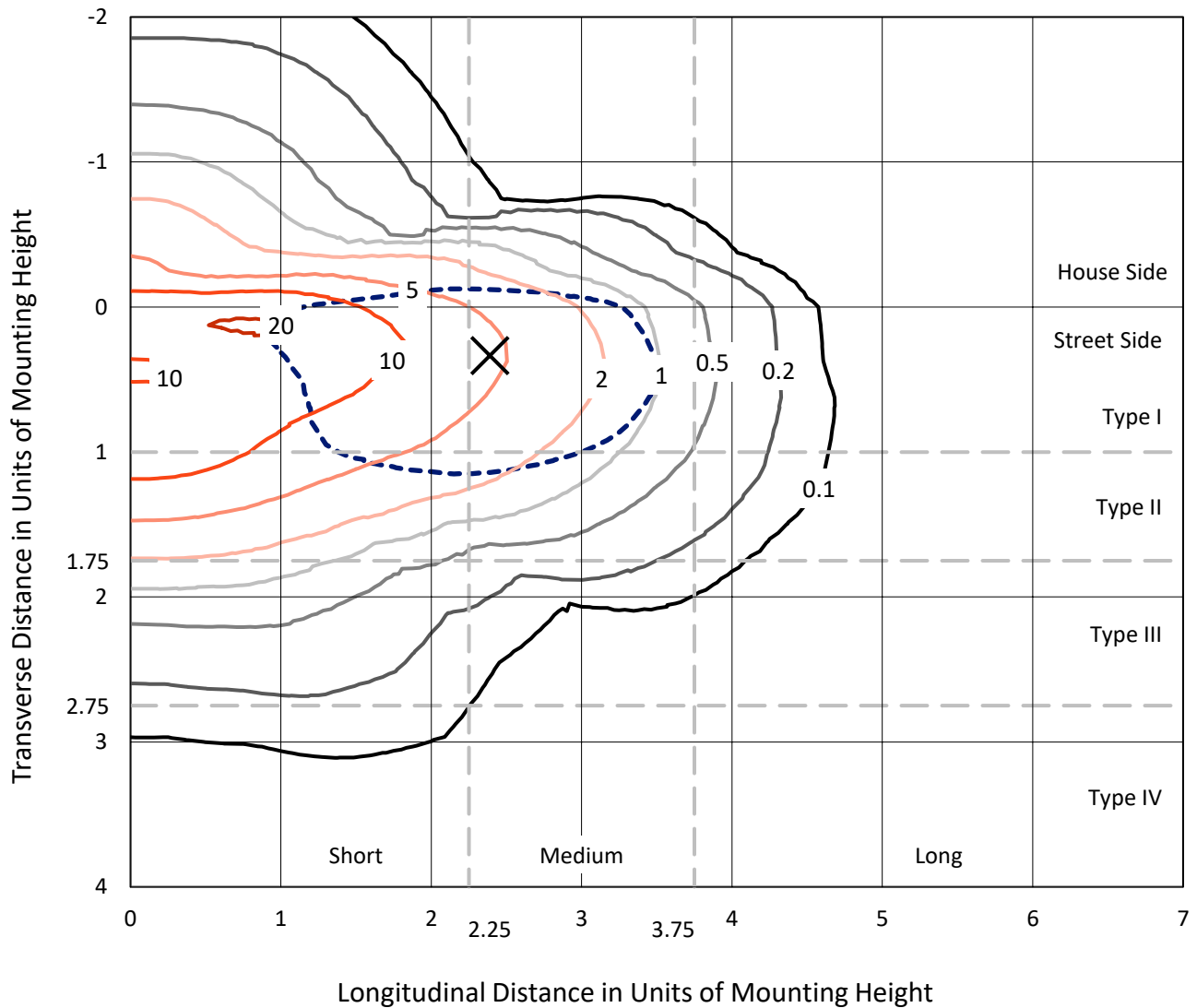
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

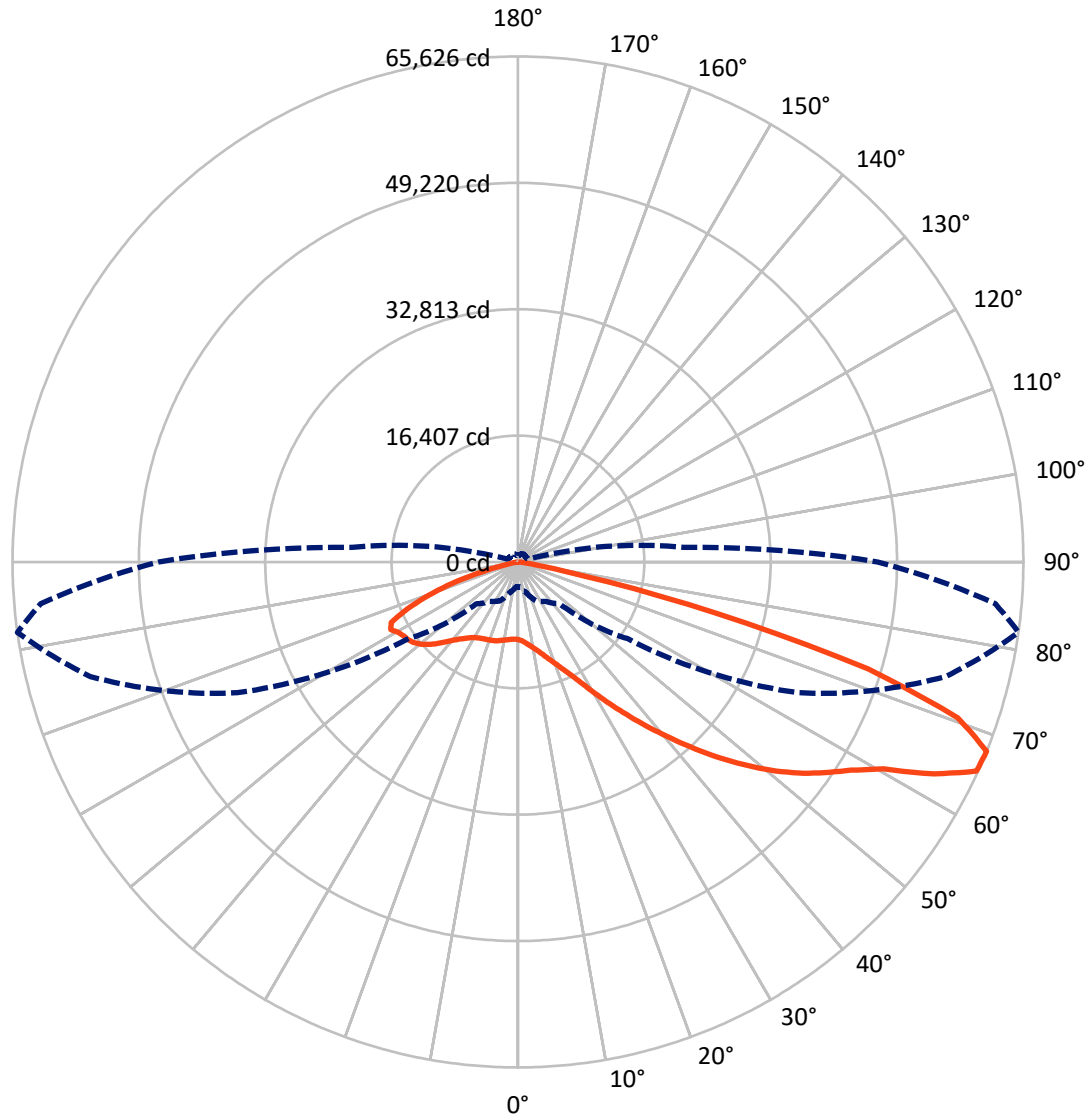
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 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	11016.3	0.0	11016.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	49799.7	0.0	49799.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	60816.0	0.0	60816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.6	1.5
10°-20°	2332.6	3.8
20°-30°	3736.0	6.1
30°-40°	6606.4	10.9
40°-50°	11575.1	19.0
50°-60°	15437.9	25.4
60°-70°	14371.9	23.6
70°-80°	5515.9	9.1
80°-90°	342.6	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°	60816.0	100.0
0°-180°	60816.0	100.0

Coefficient of Utilization



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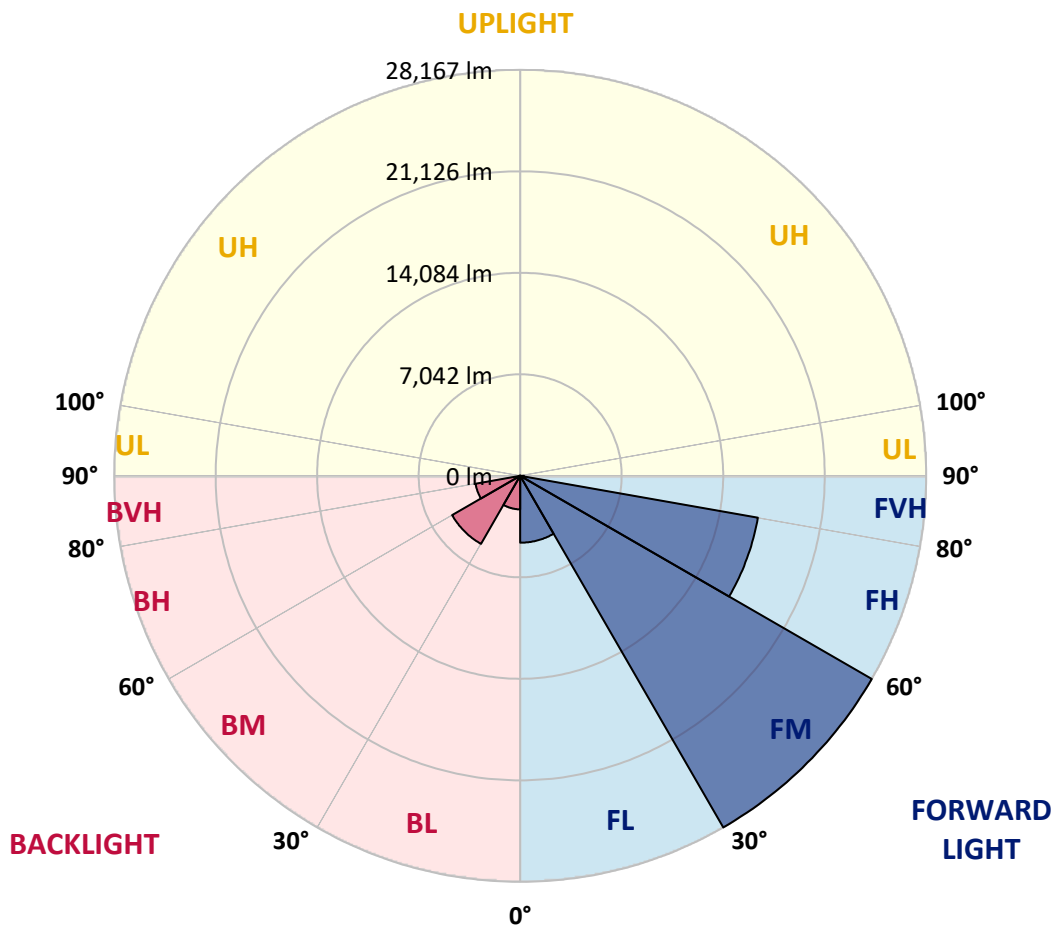
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4639.6	7.6			
FM (30°-60°)	28167.5	46.3			
FH (60°-80°)	16743.6	27.5			G5
FVH (80°-90°)	249.1	0.4			G3/500
BL (0°-30°)	2326.6	3.8	B3/2500		
BM (30°-60°)	5451.9	9.0	B4/8500		
BH (60°-80°)	3144.3	5.2	B4/5000		G4/5000
BVH (80°-90°)	93.5	0.2			G1/100
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°	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2
2.5°	10648.7	10710.0	10675.0	10657.5	10626.9	10583.1	10548.0	10438.6	10324.7	10250.3
5°	10863.3	10924.6	10920.2	10937.7	10959.6	10972.8	10964.0	10841.4	10679.4	10552.4
7.5°	10679.4	10749.5	10806.4	10894.0	11047.2	11209.2	11288.0	11261.8	11095.4	10920.2
10°	10158.3	10232.8	10368.5	10574.3	10898.3	11248.6	11542.0	11677.7	11572.6	11380.0
12.5°	9203.8	9278.2	9545.3	9992.0	10534.9	11143.5	11704.0	12067.4	12093.7	11901.0
15°	8131.1	8205.5	8490.1	9050.6	9878.1	10854.5	11791.6	12479.0	12711.1	12544.7
17.5°	7465.5	7531.2	7745.7	8196.7	9059.3	10276.6	11760.9	12916.9	13446.7	13315.3
20°	7264.1	7321.0	7421.7	7737.0	8455.1	9676.7	11559.5	13328.5	14239.2	14164.8
22.5°	7478.6	7531.2	7561.8	7702.0	8152.9	9282.6	11305.5	13748.8	15158.7	15167.5
25°	7973.4	8026.0	7990.9	8078.5	8275.5	9160.0	11209.2	14243.6	16314.7	16411.0
27.5°	8787.8	8792.2	8709.0	8704.7	8735.3	9343.9	11309.9	14773.4	17772.7	17952.3
30°	10421.1	10355.4	10035.7	9689.8	9532.2	9895.6	11590.1	15399.5	19493.5	19813.2
32.5°	12938.8	12842.4	12255.7	11428.1	10596.2	10784.5	12093.7	16113.2	21367.6	21945.5
35°	15671.0	15644.7	15031.7	13801.3	12347.6	12049.9	12912.5	17050.3	23412.4	24331.9
37.5°	18210.6	18197.5	17847.2	16397.8	14628.9	13814.5	14226.1	18276.3	25601.7	26932.8
40°	20531.2	20570.7	20220.4	18924.3	17142.2	16078.2	16012.5	19791.3	28036.2	29765.7
42.5°	22536.6	22580.4	22225.8	21266.8	19624.9	18582.8	18206.2	21647.8	30413.7	32808.8
45°	23898.4	24169.9	24117.3	23351.1	22173.2	21091.7	20842.1	23977.2	33124.1	36035.9
47.5°	24283.7	24533.3	24927.4	25032.4	24314.4	23250.4	23548.1	26783.9	35865.1	39267.3
50°	23333.5	23565.6	24384.4	25474.7	25973.8	25645.4	26179.6	29792.0	38671.8	42489.9
52.5°	21459.5	21696.0	22729.3	24454.5	26490.5	27523.9	28819.9	32756.3	41390.9	45541.8
55°	18749.2	18998.7	20325.5	22278.3	25505.3	28298.9	31022.4	35716.2	43882.3	48287.2
57.5°	15062.4	15246.3	16625.5	19357.8	23027.0	27528.2	32646.8	38947.6	46229.2	50984.4
60°	9816.8	9978.8	11581.4	14628.9	18919.9	24953.6	32970.8	42551.2	49346.8	54491.6
62.5°	6528.5	6638.0	7588.1	9825.6	13324.1	20010.2	31074.9	45428.0	53918.1	60595.4
65°	4479.3	4588.8	5538.9	7097.7	8608.3	13236.5	25623.6	45047.0	58060.2	65442.5
67.5°	3196.4	3288.3	4094.0	5565.2	6230.7	7688.8	17369.9	40178.0	57464.7	65626.4
70°	2290.0	2342.5	3008.1	4334.8	4952.2	4619.4	9659.2	30729.0	50314.5	60599.8
72.5°	1602.6	1620.1	2088.6	3301.5	3988.9	3371.5	4597.5	20487.5	38054.4	47564.7
75°	1085.9	1107.8	1405.5	2421.4	3200.8	2574.6	2434.5	10985.9	22339.6	26328.5
77.5°	665.5	674.3	906.4	1655.1	2395.1	1961.6	1567.5	4654.4	8643.4	8485.7
80°	376.6	376.6	578.0	1029.0	1633.2	1265.4	1099.0	1979.1	2736.6	2403.9
82.5°	210.2	214.6	420.3	639.3	1081.5	748.7	604.2	915.1	1182.2	1046.5
85°	87.6	96.3	258.3	302.1	516.7	372.2	245.2	385.3	437.9	389.7
87.5°	8.8	13.1	78.8	56.9	61.3	74.4	35.0	74.4	61.3	61.3
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°
10075.2	0°	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2	10075.2
10224.0	2.5°	10140.8	10075.2	9908.8	9716.1	9462.1	9339.5	9173.2	9059.3	8963.0	8971.7
10478.0	5°	10337.9	10171.5	9799.3	9335.2	8757.2	8345.6	7907.7	7605.6	7360.4	7307.9
10828.3	7.5°	10609.3	10346.6	9694.2	8857.9	7881.5	7141.5	6480.3	6055.6	5753.5	5657.1
11253.0	10°	10959.6	10578.7	9558.5	8258.0	6852.5	5911.1	5201.8	4869.0	4663.2	4593.1
11752.2	12.5°	11366.8	10845.8	9379.0	7526.8	5792.9	4886.5	4435.5	4269.1	4203.5	4181.6
12365.2	15°	11879.1	11178.6	9107.5	6659.8	4895.3	4260.4	4067.7	4045.8	4054.6	4045.8
13100.8	17.5°	12487.8	11542.0	8665.2	5766.6	4291.0	3940.7	3870.7	3888.2	3910.1	3905.7
13923.9	20°	13153.3	11901.0	8100.4	4974.1	3879.4	3713.1	3673.6	3691.2	3708.7	3699.9
14874.1	22.5°	13910.8	12286.3	7474.3	4356.7	3603.6	3502.9	3459.1	3463.5	3463.5	3446.0
16078.2	25°	14817.2	12711.1	6817.5	3918.8	3393.4	3314.6	3262.1	3244.5	3218.3	3165.7
17540.7	27.5°	15898.7	13162.1	6187.0	3612.3	3227.0	3152.6	3091.3	3047.5	2981.8	2894.3
19296.5	30°	17115.9	13709.4	5652.8	3419.7	3095.7	3021.2	2951.2	2885.5	2789.2	2679.7
21315.0	32.5°	18547.7	14296.1	5263.1	3292.7	2977.4	2898.6	2815.4	2736.6	2631.5	2522.1
23583.1	35°	20255.4	15005.5	5035.4	3205.1	2885.5	2780.4	2688.5	2600.9	2522.1	2425.7
26048.3	37.5°	22107.5	15758.6	4965.3	3161.3	2824.2	2662.2	2557.1	2495.8	2487.0	2430.1
28714.8	40°	24134.8	16651.8	5017.9	3135.1	2758.5	2548.3	2434.5	2421.4	2443.3	2342.5
31565.3	42.5°	26280.3	17711.4	5105.4	3104.4	2666.6	2434.5	2325.0	2325.0	2307.5	2167.4
34577.8	45°	28601.0	18933.1	5193.0	3030.0	2557.1	2320.7	2237.5	2206.8	2132.4	1996.6
37607.8	47.5°	30939.2	20176.6	5258.7	2894.3	2425.7	2224.3	2149.9	2079.8	1970.4	1847.8
40580.8	50°	33159.1	21293.1	5188.6	2692.8	2276.9	2132.4	2053.6	1957.2	1839.0	1755.8
43396.3	52.5°	35142.6	22260.8	4890.9	2456.4	2119.2	2036.0	1966.0	1865.3	1769.0	1681.4
45935.9	55°	36867.8	23044.6	4365.5	2233.1	1979.1	1952.9	1882.8	1755.8	1624.5	1550.0
48453.6	57.5°	38522.9	23640.0	3708.7	2049.2	1852.1	1860.9	1755.8	1642.0	1519.4	1440.6
51847.0	60°	40725.3	24437.0	3043.1	1878.4	1716.4	1742.7	1628.8	1545.6	1392.4	1291.7
57666.1	62.5°	44245.7	25676.1	2417.0	1668.2	1558.8	1567.5	1519.4	1418.7	1234.8	1116.5
61979.0	65°	47039.3	25220.7	1904.7	1440.6	1379.3	1392.4	1392.4	1282.9	1085.9	950.2
62211.1	67.5°	46724.0	21595.2	1519.4	1217.3	1208.5	1217.3	1247.9	1155.9	963.3	853.8
57473.5	70°	43041.6	17177.2	1217.3	1011.5	1050.9	1029.0	1116.5	1055.2	867.0	757.5
44556.6	72.5°	35120.7	12373.9	928.3	836.3	805.7	840.7	1007.1	950.2	722.5	599.9
23600.6	75°	20522.5	6602.9	691.8	661.2	582.4	700.6	893.2	810.0	551.7	442.2
7233.4	77.5°	6681.7	2303.1	507.9	486.0	433.5	564.8	761.9	683.1	451.0	350.3
2119.2	80°	1790.8	696.2	345.9	319.6	280.2	420.3	604.2	542.9	324.0	227.7
910.7	82.5°	718.1	293.4	201.4	179.5	153.3	289.0	477.3	437.9	240.8	144.5
284.6	85°	232.1	96.3	74.4	56.9	70.1	179.5	284.6	297.7	170.8	74.4
43.8	87.5°	30.7	13.1	13.1	17.5	13.1	30.7	87.6	83.2	48.2	8.8
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

180°
10075.2
8884.2
7189.7
5560.8
4540.6
4168.4
4041.4
3897.0
3695.5
3437.2
3157.0
2885.5
2670.9
2526.5
2417.0
2425.7
2346.9
2167.4
1992.3
1843.4
1742.7
1672.6
1541.3
1431.8
1278.6
1107.8
937.0
836.3
744.4
586.7
429.1
337.2
223.3
144.5
56.9
0.0
0.0

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