

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: P942705

Luminaire Tested: **GALN-SB6D-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942705
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-SB6D-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54940 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

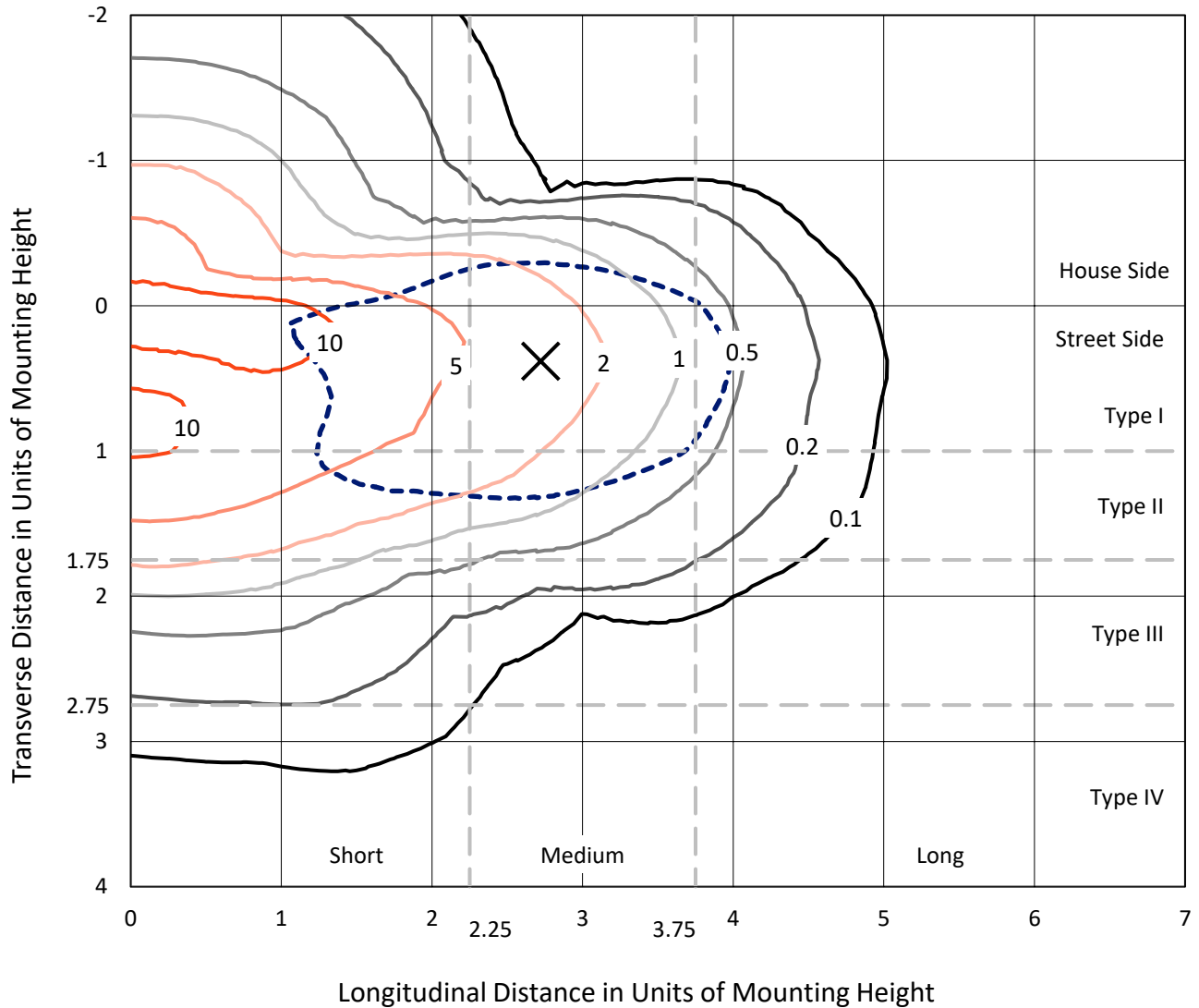
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

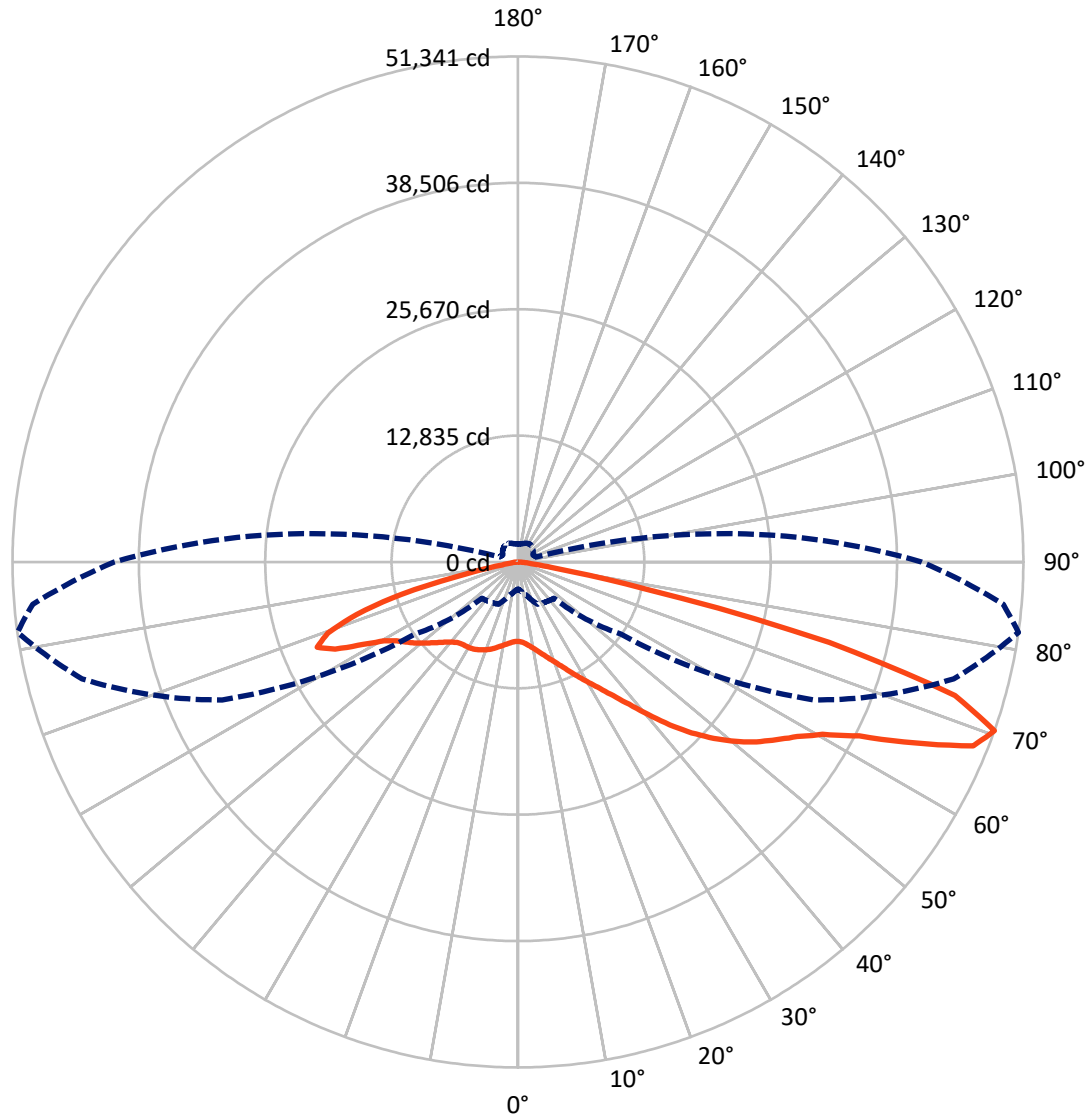
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	13544.1	0.0	13544.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	41395.9	0.0	41395.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	54940.0	0.0	54940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.5	1.4
10°-20°	2185.0	4.0
20°-30°	3655.3	6.7
30°-40°	5710.6	10.4
40°-50°	9094.8	16.6
50°-60°	12656.5	23.0
60°-70°	13239.2	24.1
70°-80°	6919.5	12.6
80°-90°	718.5	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°	54940.0	100.0
0°-180°	54940.0	100.0

Coefficient of Utilization



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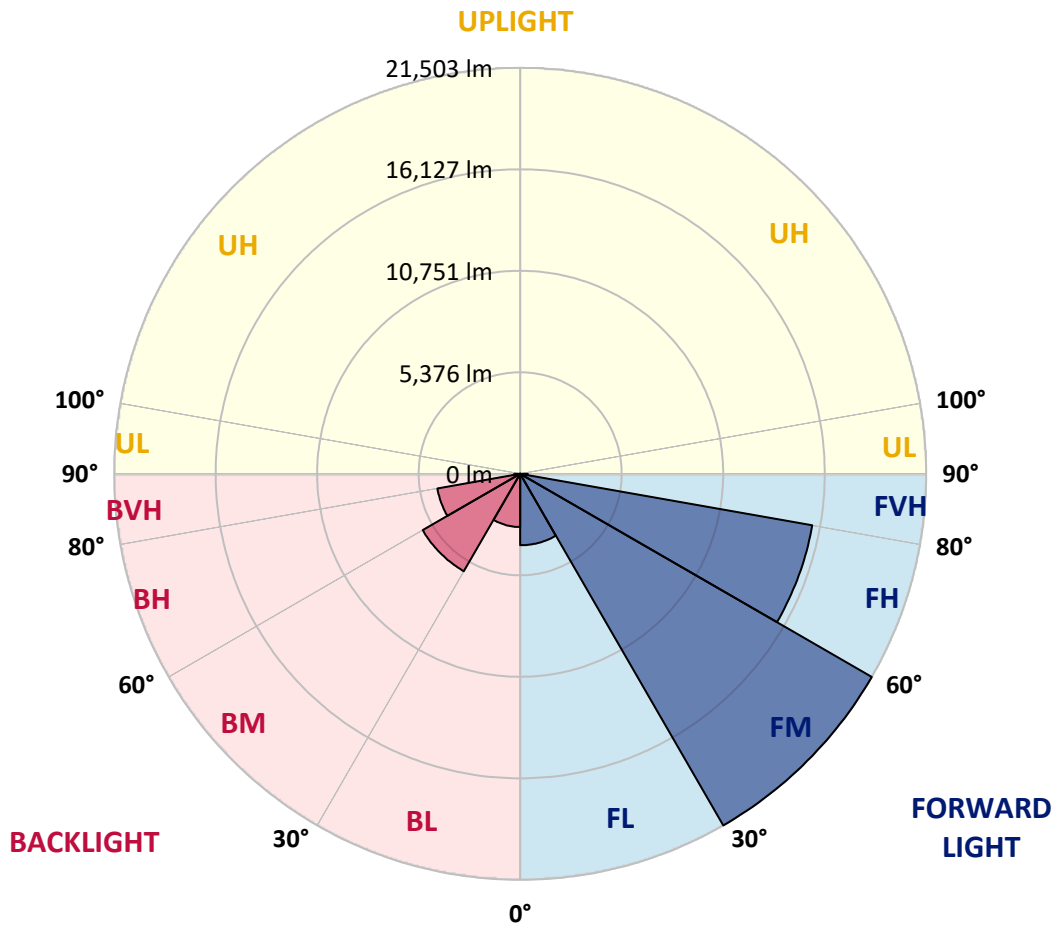
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3783.2	6.9			
FM (30°-60°)	21503.0	39.1			
FH (60°-80°)	15707.5	28.6			G5
FVH (80°-90°)	402.2	0.7			G3/500
BL (0°-30°)	2817.7	5.1	B4/5000		
BM (30°-60°)	5958.8	10.8	B4/8500		
BH (60°-80°)	4451.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	316.3	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°	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9
2.5°	8247.3	8293.9	8279.4	8264.8	8264.8	8244.4	8241.5	8212.3	8189.0	8151.1
5°	8352.2	8401.8	8396.0	8407.6	8445.5	8454.3	8463.0	8445.5	8398.9	8352.2
7.5°	8259.0	8314.4	8331.8	8401.8	8518.4	8623.4	8702.1	8734.1	8690.4	8623.4
10°	7944.1	8005.3	8066.6	8232.7	8439.7	8687.5	8897.4	9022.8	9014.0	8949.9
12.5°	7305.7	7369.8	7501.0	7824.6	8203.6	8640.9	9031.5	9293.9	9384.3	9337.6
15°	6795.5	6850.9	6950.0	7282.3	7775.0	8439.7	9081.1	9591.2	9821.5	9795.3
17.5°	6780.9	6804.2	6865.5	7022.9	7401.9	8124.9	9028.6	9882.8	10323.0	10320.1
20°	7037.5	7046.2	7081.2	7113.3	7329.0	7885.8	8894.5	10124.7	10885.6	10885.6
22.5°	7393.1	7387.3	7422.3	7393.1	7498.1	7865.4	8809.9	10337.5	11512.4	11559.0
25°	7926.6	7897.5	7888.7	7821.7	7842.1	8054.9	8903.2	10579.5	12255.8	12352.0
27.5°	8637.9	8591.3	8559.2	8404.7	8352.2	8445.5	9188.9	10871.0	13083.7	13249.9
30°	9565.0	9480.5	9433.8	9165.6	8976.1	8990.7	9620.4	11258.8	13949.6	14217.8
32.5°	10830.2	10699.0	10573.7	10133.5	9786.6	9672.9	10177.2	11795.2	14888.3	15316.8
35°	12247.0	12142.1	12008.0	11328.7	10795.2	10532.9	10929.3	12544.4	15987.3	16666.6
37.5°	13611.4	13521.0	13585.2	12669.8	11981.8	11599.9	11914.7	13550.2	17342.9	18345.8
40°	15022.4	14952.4	14961.2	14086.6	13284.9	12856.3	13110.0	14812.5	18896.8	20342.8
42.5°	16555.8	16503.3	16328.4	15553.0	14652.1	14252.8	14486.0	16270.1	20564.3	22616.7
45°	18272.9	18240.8	18077.6	17188.4	16156.4	15707.5	16022.3	17879.4	22240.6	24756.5
47.5°	19756.8	19783.0	19762.6	19013.4	17943.5	17284.6	17660.7	19558.5	23800.3	26768.0
50°	20471.0	20608.0	20809.2	20576.0	19911.3	19240.8	19313.7	21179.4	25287.1	28654.2
52.5°	20097.9	20357.3	20905.4	21278.6	21535.1	21395.2	21199.8	22788.7	26686.4	30356.7
55°	18707.3	19071.7	19981.3	20882.1	22191.0	23208.5	23465.0	24572.8	28050.7	31855.2
57.5°	16173.9	16765.7	17582.0	19404.0	21608.0	24086.0	26106.2	27047.9	29496.7	33455.6
60°	11830.2	12623.1	13637.6	16348.8	19567.3	23616.6	28353.9	30849.4	31552.0	35528.4
62.5°	7571.0	8060.7	8993.6	11547.4	15246.9	21211.5	29041.9	35601.3	35035.7	38927.6
65°	5183.4	5498.2	6352.4	7786.7	9856.5	15789.1	27199.5	39163.7	40568.9	44315.0
67.5°	3766.5	4005.6	4734.4	5990.9	6422.3	9343.4	21106.6	39000.5	45947.6	49865.7
70°	2746.2	2915.3	3527.5	4734.4	4941.4	5197.9	12786.4	33152.5	45831.0	51340.8
72.5°	2034.9	2151.5	2562.5	3673.2	3999.8	3510.0	6329.1	24094.7	39382.4	46437.3
75°	1472.2	1559.7	1862.9	2810.3	3201.0	2673.3	3157.2	14080.8	27470.6	32665.6
77.5°	1125.3	1192.3	1390.6	2058.2	2562.5	2005.7	1959.1	6477.7	13025.4	13089.6
80°	903.7	947.5	1055.3	1448.9	1964.9	1501.4	1276.9	2615.0	4116.4	3483.7
82.5°	664.7	737.6	892.1	1017.4	1405.2	1034.9	778.4	1320.6	1565.5	1346.9
85°	379.0	428.5	539.3	728.8	897.9	632.6	446.0	586.0	728.8	597.6
87.5°	134.1	174.9	189.5	285.7	390.6	262.4	172.0	169.1	239.1	177.8
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°
8054.9	0°	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9	8054.9
8142.3	2.5°	8113.2	8098.6	8040.3	7961.6	7880.0	7801.3	7775.0	7719.6	7681.7	7661.3
8331.8	5°	8276.5	8229.8	8092.8	7917.9	7734.2	7536.0	7396.0	7267.8	7174.5	7087.0
8591.3	7.5°	8509.7	8428.0	8191.9	7885.8	7559.3	7229.9	6985.0	6798.4	6673.1	6591.4
8894.5	10°	8780.8	8655.4	8293.9	7836.2	7331.9	6859.6	6571.0	6410.7	6332.0	6288.2
9241.4	12.5°	9092.7	8914.9	8398.9	7722.6	6985.0	6445.7	6247.4	6200.8	6203.7	6206.6
9678.7	15°	9477.5	9229.7	8483.4	7474.8	6533.1	6127.9	6092.9	6168.7	6247.4	6285.3
10174.3	17.5°	9911.9	9562.1	8498.0	7066.6	6090.0	5923.8	6034.6	6197.9	6317.4	6369.9
10728.2	20°	10378.4	9900.3	8393.1	6489.4	5725.6	5757.7	5955.9	6165.8	6297.0	6364.0
11360.8	22.5°	10911.9	10261.8	8142.3	5883.0	5428.2	5576.9	5810.1	6014.2	6151.2	6218.3
12104.2	25°	11521.1	10667.0	7748.8	5372.8	5171.7	5372.8	5606.1	5775.1	5885.9	5947.2
12935.1	27.5°	12197.5	11089.7	7224.0	4967.6	4947.2	5162.9	5355.4	5486.5	5544.8	5591.5
13818.4	30°	12876.7	11474.5	6588.5	4661.5	4751.9	4956.0	5093.0	5151.3	5168.8	5177.5
14803.7	32.5°	13611.4	11806.8	5920.9	4407.9	4565.3	4754.8	4836.4	4862.7	4781.0	4725.7
15999.0	35°	14500.6	12162.5	5267.9	4206.7	4381.7	4544.9	4571.1	4547.8	4451.6	4337.9
17497.5	37.5°	15599.6	12605.6	4746.1	4063.9	4209.6	4317.5	4285.4	4279.6	4288.4	4154.3
19299.1	40°	16946.5	13182.9	4364.2	3953.1	4069.7	4093.0	4002.7	4052.2	4096.0	3891.9
21275.6	42.5°	18442.0	13879.6	4122.2	3877.3	3953.1	3897.7	3757.8	3813.2	3807.3	3539.1
23260.9	45°	19966.7	14637.6	4037.6	3821.9	3845.2	3734.5	3580.0	3594.5	3472.1	3230.1
25164.6	47.5°	21482.6	15450.9	4090.1	3775.3	3711.1	3585.8	3466.3	3402.1	3221.4	3040.6
26989.6	50°	22969.4	16305.1	4282.5	3682.0	3527.5	3454.6	3367.1	3253.4	3061.0	2906.5
28715.4	52.5°	24348.3	17165.1	4498.3	3527.5	3297.2	3340.9	3285.5	3154.3	2964.8	2807.4
30348.0	55°	25654.4	18025.1	4582.8	3314.7	3081.4	3241.8	3209.7	2967.7	2740.4	2612.1
32056.3	57.5°	27077.0	19060.0	4489.5	3043.5	2906.5	3128.1	3005.6	2737.4	2606.3	2510.0
34280.7	60°	29047.8	20683.8	4288.4	2708.3	2740.4	2959.0	2749.1	2638.3	2495.5	2387.6
37615.7	62.5°	32321.6	23712.8	3964.8	2375.9	2545.0	2708.3	2626.7	2515.9	2370.1	2265.2
43318.0	65°	37160.9	27922.5	3355.5	2116.5	2326.4	2463.4	2495.5	2384.7	2233.1	2122.3
48314.8	67.5°	41242.3	30563.7	2539.2	1900.8	2101.9	2265.2	2355.5	2247.7	2087.3	1979.5
49483.8	70°	41017.8	28645.4	1938.7	1687.9	1903.7	2069.8	2186.5	2101.9	1929.9	1827.9
44947.6	72.5°	36432.1	23963.5	1568.4	1472.2	1702.5	1865.8	2005.7	1941.6	1766.7	1667.5
32928.0	75°	26765.1	17010.6	1253.6	1253.6	1451.8	1653.0	1807.5	1766.7	1606.3	1536.3
13824.2	77.5°	11282.1	7136.6	982.4	1040.8	1206.9	1419.7	1612.1	1626.7	1486.8	1574.2
3655.7	80°	2999.8	1967.8	749.2	819.2	947.5	1171.9	1402.2	1396.4	1244.8	1163.2
1358.5	82.5°	1142.8	775.5	533.5	577.2	685.1	897.9	1110.7	1145.7	994.1	860.0
533.5	85°	440.2	332.3	329.4	346.9	399.4	594.7	839.6	868.8	749.2	635.5
148.7	87.5°	113.7	99.1	122.4	116.6	183.7	317.8	481.0	498.5	457.7	265.3
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>
8054.9
7684.7
7122.0
6608.9
6299.9
6212.4
6282.4
6381.5
6381.5
6235.8
5964.6
5609.0
5197.9
4743.1
4343.8
4163.0
3897.7
3536.2
3238.9
3040.6
2894.9
2810.3
2600.4
2501.3
2381.8
2265.2
2128.1
1982.4
1836.6
1667.5
1515.9
1428.5
1081.6
860.0
655.9
379.0
0.0

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