

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: P944067

Luminaire Tested: **GALN-SB8D-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73987 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

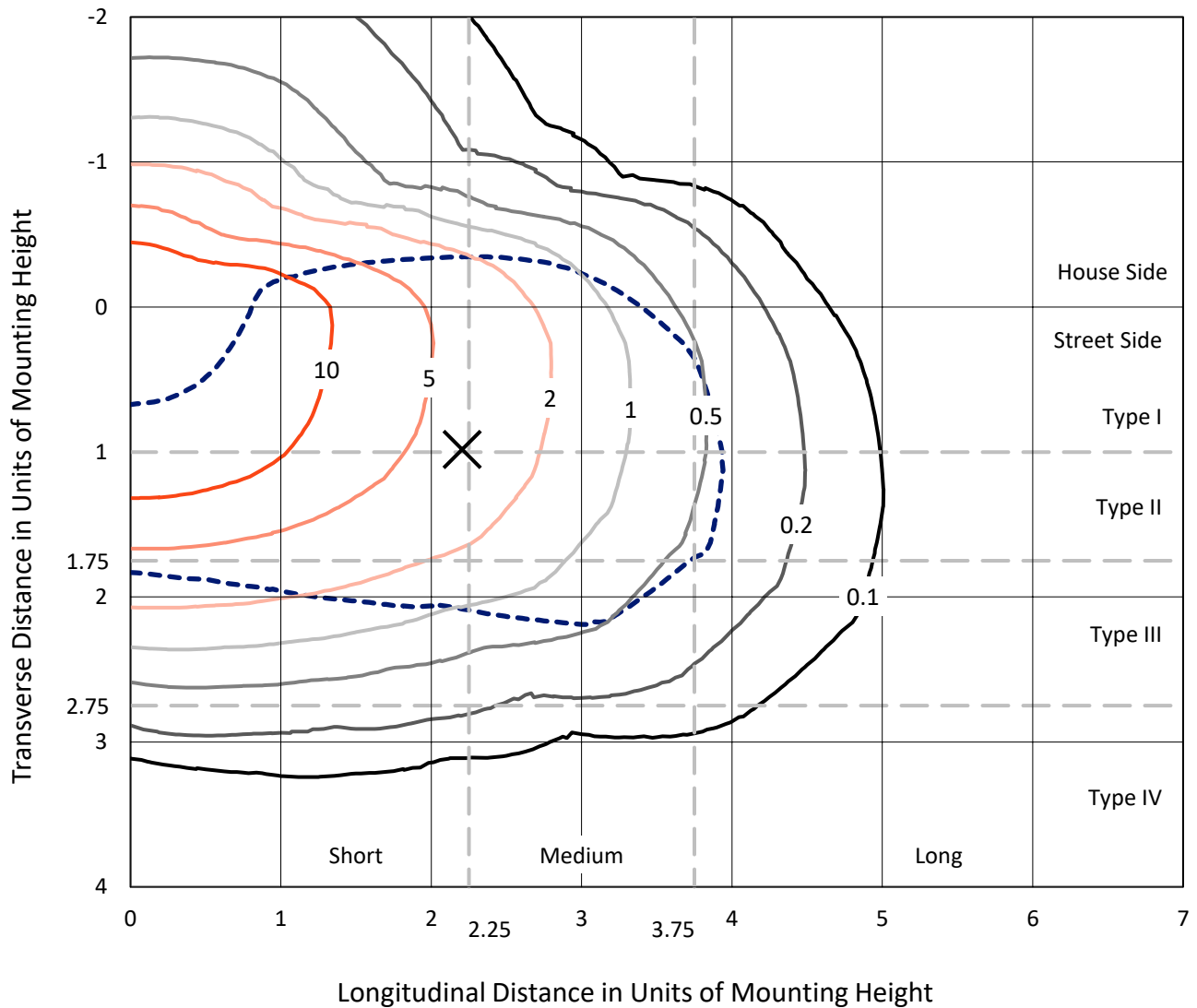
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944067
 CATALOG NUMBER: GALN-SB8D-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

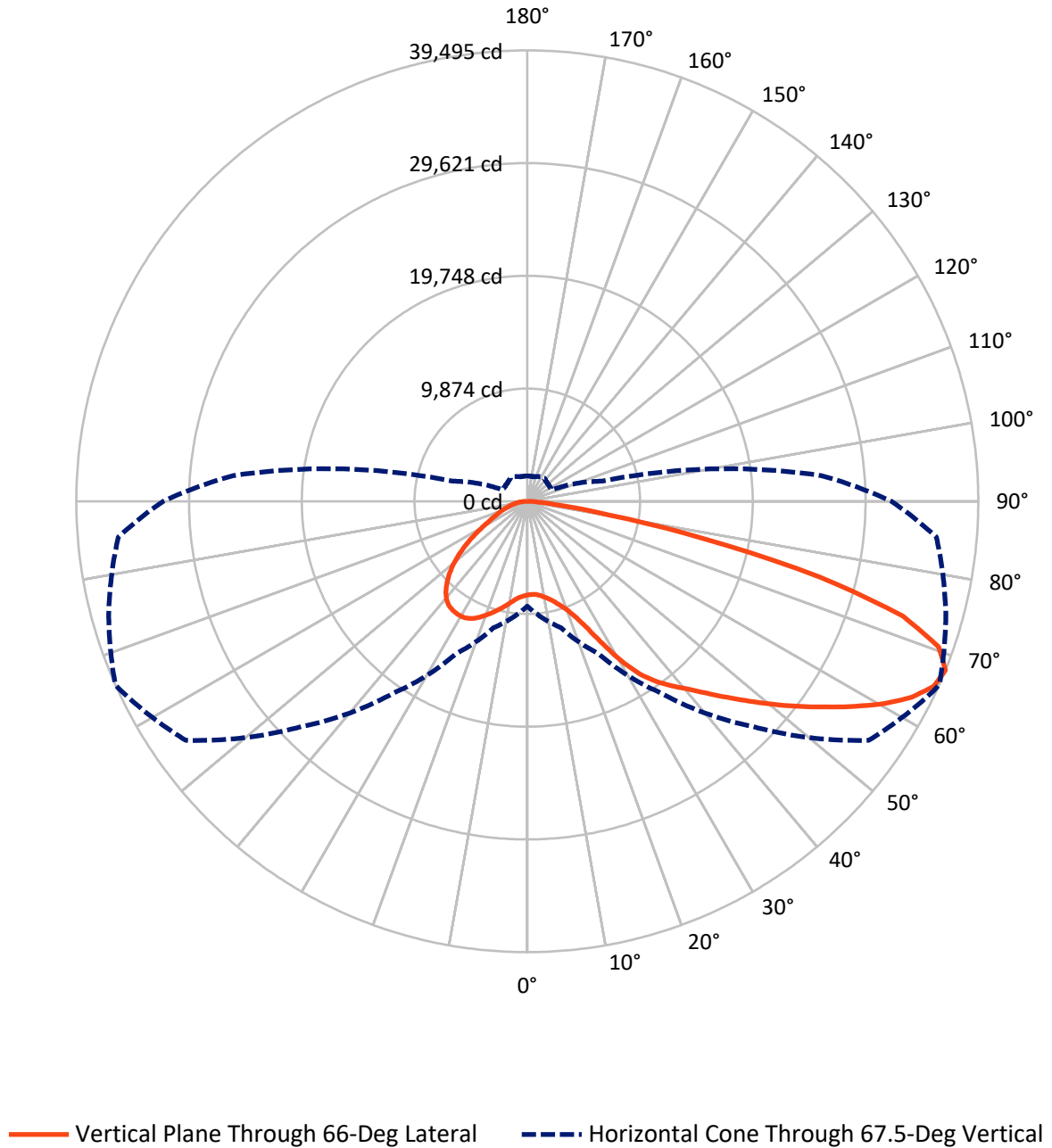
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type III - Short - N/A

REPORT NUMBER: P944067
CATALOG NUMBER: GALN-SB8D-830-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18396.7	0.0	18396.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	55590.3	0.0	55590.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	73987.0	0.0	73987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.6	1.1
10°-20°	2688.0	3.6
20°-30°	5181.1	7.0
30°-40°	9084.3	12.3
40°-50°	13505.4	18.3
50°-60°	17119.4	23.1
60°-70°	16750.9	22.6
70°-80°	7990.3	10.8
80°-90°	853.9	1.2
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°	73987.0	100.0
0°-180°	73987.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944067

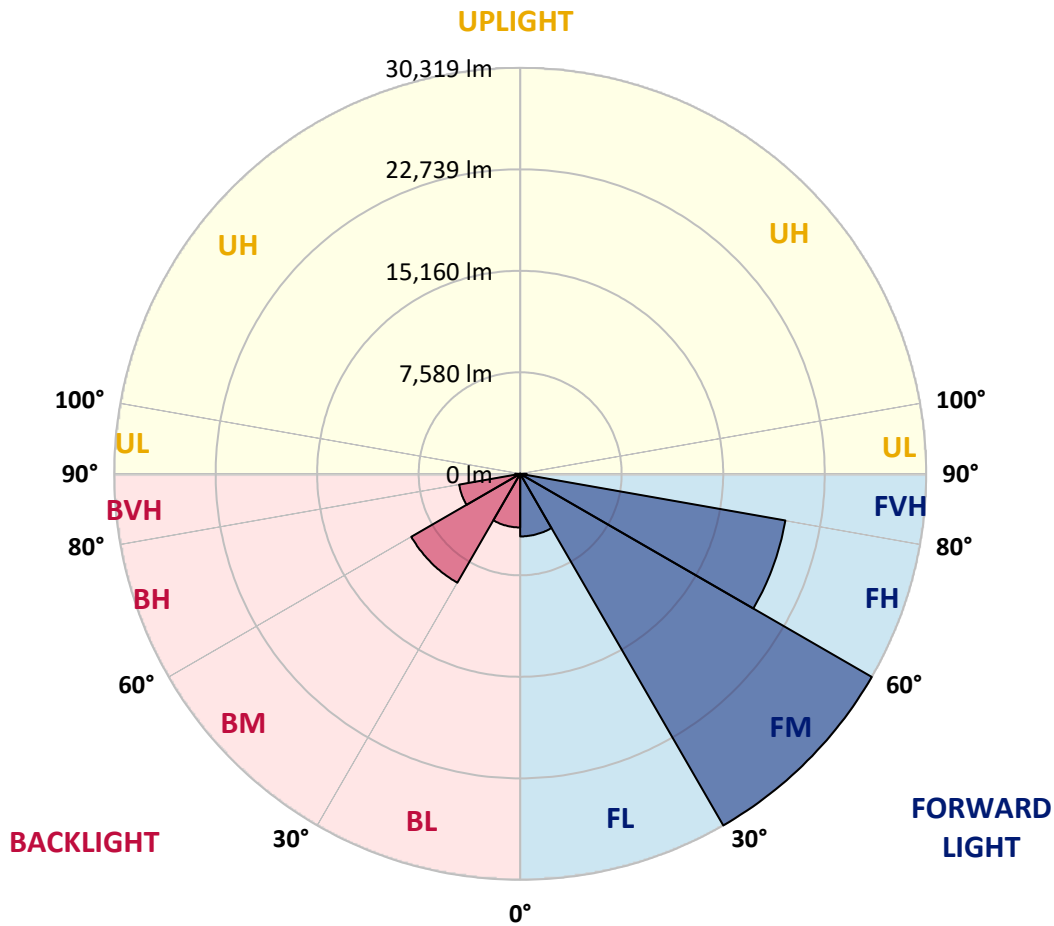
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4675.2	6.3			
FM (30°-60°)	30319.2	41.0			
FH (60°-80°)	20111.7	27.2			G5
FVH (80°-90°)	484.2	0.7			G3/500
BL (0°-30°)	4007.5	5.4	B4/5000		
BM (30°-60°)	9389.9	12.7	B5		
BH (60°-80°)	4629.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	369.8	0.5			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 III Short



REPORT NUMBER: P944067

CATALOG NUMBER: GALN-SB8D-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1
2.5°	8120.6	8167.3	8155.6	8136.2	8132.3	8140.1	8151.7	8163.4	8159.5	8178.9
5°	8097.3	8143.9	8140.1	8140.1	8155.6	8186.7	8206.1	8225.6	8206.1	8229.5
7.5°	8112.8	8147.8	8163.4	8178.9	8217.8	8276.1	8322.8	8365.5	8342.2	8369.4
10°	8311.1	8338.3	8353.9	8353.9	8381.1	8447.2	8493.8	8571.5	8552.1	8594.9
12.5°	8672.6	8699.8	8699.8	8684.3	8703.7	8746.5	8762.0	8847.5	8812.6	8882.5
15°	9115.8	9170.2	9127.4	9100.2	9108.0	9150.8	9146.9	9213.0	9178.0	9236.3
17.5°	9605.6	9675.5	9605.6	9601.7	9586.1	9632.8	9636.7	9695.0	9632.8	9675.5
20°	10184.8	10282.0	10223.7	10243.1	10208.1	10227.5	10247.0	10332.5	10235.3	10266.4
22.5°	11001.1	11117.7	11055.5	11129.4	11106.1	11090.5	11086.6	11238.2	11086.6	11098.3
25°	12190.6	12330.6	12221.7	12322.8	12322.8	12373.3	12431.7	12626.0	12373.3	12299.5
27.5°	13947.7	14087.7	13873.9	13936.0	13916.6	14041.0	13978.8	14460.8	14188.7	14068.2
30°	16062.4	16311.2	15906.9	15891.4	15871.9	16070.2	16159.6	16478.4	16202.4	16081.8
32.5°	18348.2	18608.6	18126.6	17986.6	17912.8	18033.3	17959.4	18216.0	18025.5	17838.9
35°	20766.1	21022.6	20563.9	20291.8	19996.4	19743.7	19479.4	19545.5	19366.6	19082.9
37.5°	23051.8	23522.2	23036.3	22744.7	22200.5	21706.8	20968.2	20661.1	20494.0	20233.5
40°	25380.3	25648.5	25279.3	25030.5	24439.6	23666.0	22484.3	21835.1	21609.6	21356.9
42.5°	27094.6	27351.2	27152.9	26981.9	26519.3	25621.3	24093.6	23281.2	22954.6	22670.9
45°	28455.2	28645.7	28521.3	28583.5	28385.2	27514.5	25761.3	24832.2	24494.0	24148.0
47.5°	29003.3	29205.4	29403.7	29773.0	30111.2	29469.8	27553.3	26511.5	26153.9	25800.2
50°	28941.1	29147.1	29722.5	30507.7	31557.3	31343.5	29442.6	28299.7	27969.3	27565.0
52.5°	28443.5	28676.8	29415.4	30721.5	32393.1	32746.8	31366.8	30146.2	29835.2	29353.2
55°	27137.4	27277.3	28385.2	30235.6	32591.3	33726.4	33252.1	32113.2	31802.2	31129.7
57.5°	24715.6	24917.7	26531.0	28925.6	32093.7	34391.1	34908.1	34181.2	33881.9	32914.0
60°	21555.2	21877.8	23724.3	26725.3	30826.5	34387.2	36412.5	36214.3	35965.5	34671.0
62.5°	17978.9	18352.0	20128.6	23615.5	28610.7	33411.5	37353.3	37916.9	37788.7	36292.0
65°	13807.8	14064.3	15833.1	19592.1	25162.6	31316.3	37462.1	39079.2	39102.6	37524.3
67.5°	9193.5	9932.1	11467.6	14701.9	20544.5	27891.5	36505.8	39269.7	39495.2	37948.0
70°	4486.0	5457.8	6962.2	9555.0	14701.9	22639.8	34006.3	37707.0	38208.5	36711.9
72.5°	1862.0	2176.9	2997.1	4715.3	8439.4	15277.2	28983.9	33469.8	34398.9	32529.1
75°	1255.6	1360.6	1714.3	2417.9	3844.6	7533.6	20902.1	24956.6	26453.2	24567.9
77.5°	967.9	1034.0	1247.8	1691.0	2285.7	2849.4	11187.7	15040.0	15813.6	14639.7
80°	761.9	812.5	933.0	1232.3	1621.0	1523.8	3813.5	6814.5	7261.5	6091.4
82.5°	660.8	680.3	668.6	835.8	1076.8	890.2	1251.7	2515.1	2775.5	2013.6
85°	478.1	532.6	555.9	517.0	571.4	450.9	513.1	890.2	979.6	874.6
87.5°	194.4	287.7	353.7	334.3	209.9	128.3	159.4	260.5	299.3	326.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944067
 CATALOG NUMBER: GALN-SB8D-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8206.1	0°	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1	8206.1
8210.0	2.5°	8213.9	8241.1	8260.6	8283.9	8299.4	8322.8	8369.4	8396.6	8400.5	8419.9
8272.2	5°	8287.8	8326.6	8369.4	8431.6	8501.6	8559.9	8649.3	8711.5	8734.8	8754.2
8423.8	7.5°	8447.2	8501.6	8579.3	8688.2	8789.2	8867.0	8975.8	9049.7	9123.5	9150.8
8664.8	10°	8684.3	8762.0	8874.8	9022.5	9131.3	9232.4	9345.1	9407.3	9481.2	9512.3
8952.5	12.5°	8979.7	9061.3	9209.1	9415.1	9516.2	9586.1	9625.0	9609.5	9625.0	9652.2
9298.5	15°	9317.9	9407.3	9574.5	9796.1	9866.0	9803.8	9718.3	9640.6	9628.9	9636.7
9718.3	17.5°	9718.3	9784.4	9978.8	10165.3	10114.8	9858.2	9671.7	9547.3	9485.1	9465.6
10254.8	20°	10278.1	10278.1	10437.5	10554.1	10215.9	9780.5	9489.0	9286.8	9158.5	9104.1
10985.6	22.5°	10958.4	10896.2	10997.2	10915.6	10196.4	9562.8	9158.5	8808.7	8614.3	8536.6
12007.9	25°	11821.3	11747.5	11720.3	11214.9	10056.5	9216.8	8559.9	8136.2	7965.1	7922.4
13481.2	27.5°	13123.6	12937.0	12583.3	11378.2	9799.9	8672.6	7860.2	7467.5	7370.4	7374.2
15374.4	30°	14857.3	14484.2	13617.3	11405.4	9380.1	7902.9	7144.9	6865.0	6818.4	6837.8
16964.3	32.5°	16462.8	16109.1	14674.6	11281.0	8734.8	7148.8	6503.5	6316.9	6246.9	6270.2
18177.1	35°	17722.3	17625.1	15654.2	11106.1	7941.8	6441.3	5928.2	5768.8	5632.7	5601.6
19320.0	37.5°	18911.8	18872.9	16388.9	10861.2	7156.6	5939.8	5465.6	5255.7	5057.4	4948.6
20583.4	40°	20218.0	20179.1	16871.0	10484.1	6460.7	5504.4	5049.6	4773.6	4528.7	4330.5
22013.9	42.5°	21687.4	21458.0	17100.3	9943.8	5869.9	5135.2	4711.4	4338.3	4015.6	3832.9
23631.0	45°	23292.8	22775.8	17096.4	9255.7	5372.3	4797.0	4349.9	3821.2	3521.9	3350.9
25290.9	47.5°	24995.5	24035.3	16886.5	8493.8	4890.3	4423.8	3790.1	3385.9	3187.6	3082.6
27094.6	50°	26752.5	25213.2	16528.9	7619.2	4396.6	4000.1	3440.3	3164.3	3012.7	2915.5
28882.8	52.5°	28404.7	26282.2	16097.4	6627.9	3895.1	3588.0	3284.8	3071.0	2911.6	2802.8
30616.5	55°	29940.2	27203.5	15487.1	5613.3	3486.9	3312.0	3210.9	3032.1	2849.4	2721.1
32377.5	57.5°	31304.6	27802.1	14433.6	4660.9	3195.4	3121.5	3133.2	2966.0	2756.1	2647.3
34111.2	60°	32439.7	28241.4	12874.8	3778.5	2958.3	2934.9	3012.7	2841.6	2596.7	2472.3
35576.8	62.5°	33120.0	28233.6	10962.2	3094.3	2756.1	2763.9	2853.3	2686.1	2437.4	2320.7
36342.6	65°	33061.7	27541.7	8863.1	2647.3	2561.7	2569.5	2686.1	2515.1	2305.2	2235.2
35957.7	67.5°	31891.6	25854.6	6798.9	2355.7	2347.9	2382.9	2519.0	2398.5	2223.5	2215.8
33664.2	70°	28723.4	22352.1	4898.0	2122.5	2126.4	2176.9	2355.7	2324.6	2180.8	2196.3
28303.6	72.5°	23032.4	17042.0	3288.7	1877.6	1881.5	1963.1	2200.2	2266.3	2138.0	2344.1
20081.9	75°	15339.4	10627.9	2114.7	1617.1	1621.0	1726.0	2064.2	2153.6	2021.4	2336.3
10449.1	77.5°	7370.4	4777.5	1531.6	1360.6	1360.6	1457.7	1784.3	1928.1	1722.1	1815.4
3358.6	80°	2546.2	1795.9	1205.1	1096.2	1072.9	1139.0	1504.4	1671.5	1485.0	1368.3
1096.2	82.5°	1002.9	933.0	967.9	851.3	773.6	816.3	1170.1	1380.0	1092.3	987.4
618.1	85°	575.3	606.4	684.2	563.7	447.0	501.5	859.1	991.3	824.1	726.9
202.1	87.5°	155.5	213.8	314.9	291.5	202.1	213.8	408.2	548.1	474.3	365.4
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>
8206.1
8416.1
8750.4
9154.6
9527.8
9660.0
9663.9
9492.8
9092.4
8524.9
7930.1
7385.9
6903.9
6301.3
5625.0
4952.4
4349.9
3844.6
3343.1
3059.3
2880.5
2756.1
2670.6
2577.3
2417.9
2285.7
2231.3
2227.4
2192.4
2375.2
2355.7
1663.8
1282.8
983.5
742.5
377.1
0.0

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