

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: P944099

Luminaire Tested: **GALN-SB8D-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77792 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

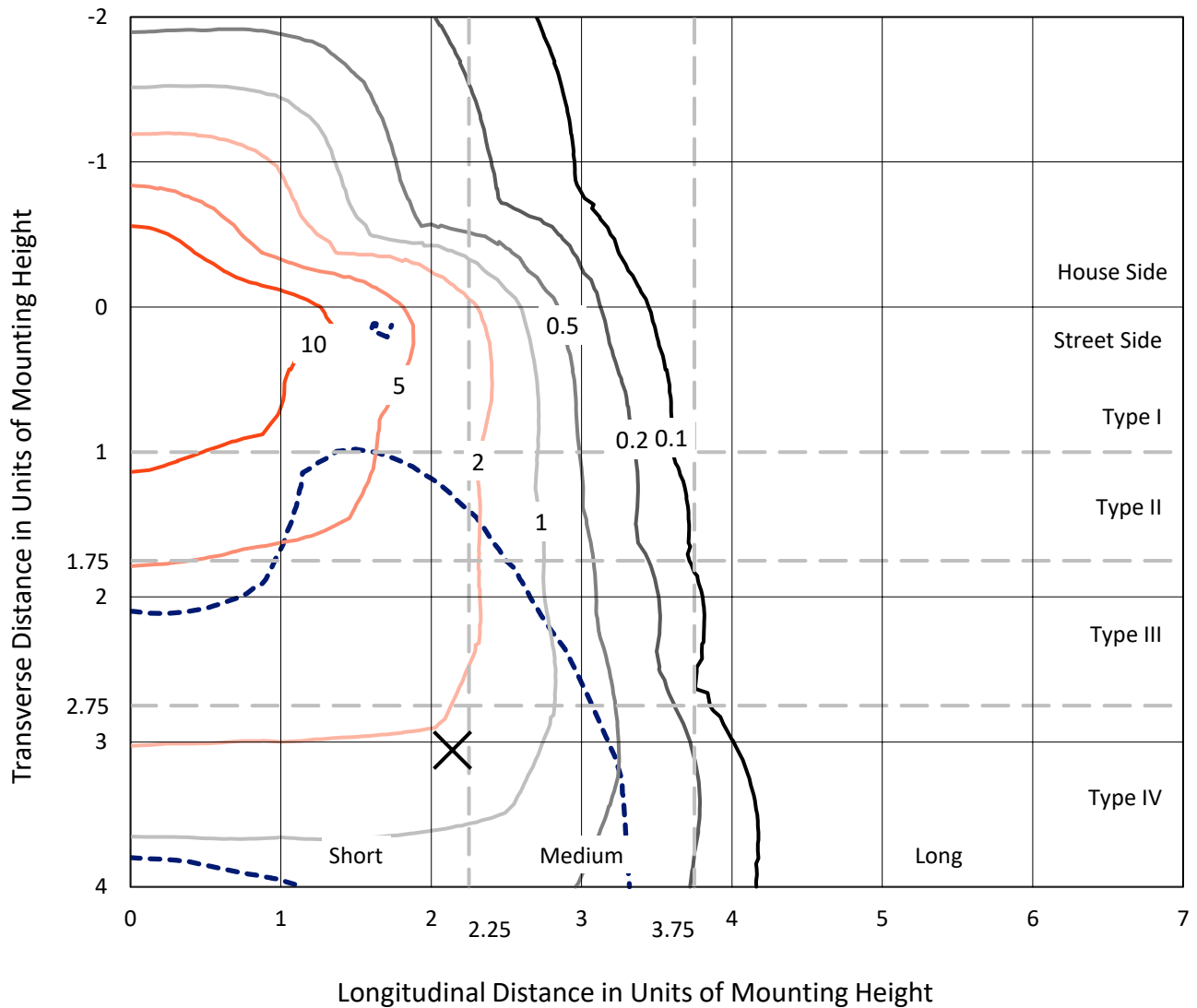
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944099
 CATALOG NUMBER: GALN-SB8D-850-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

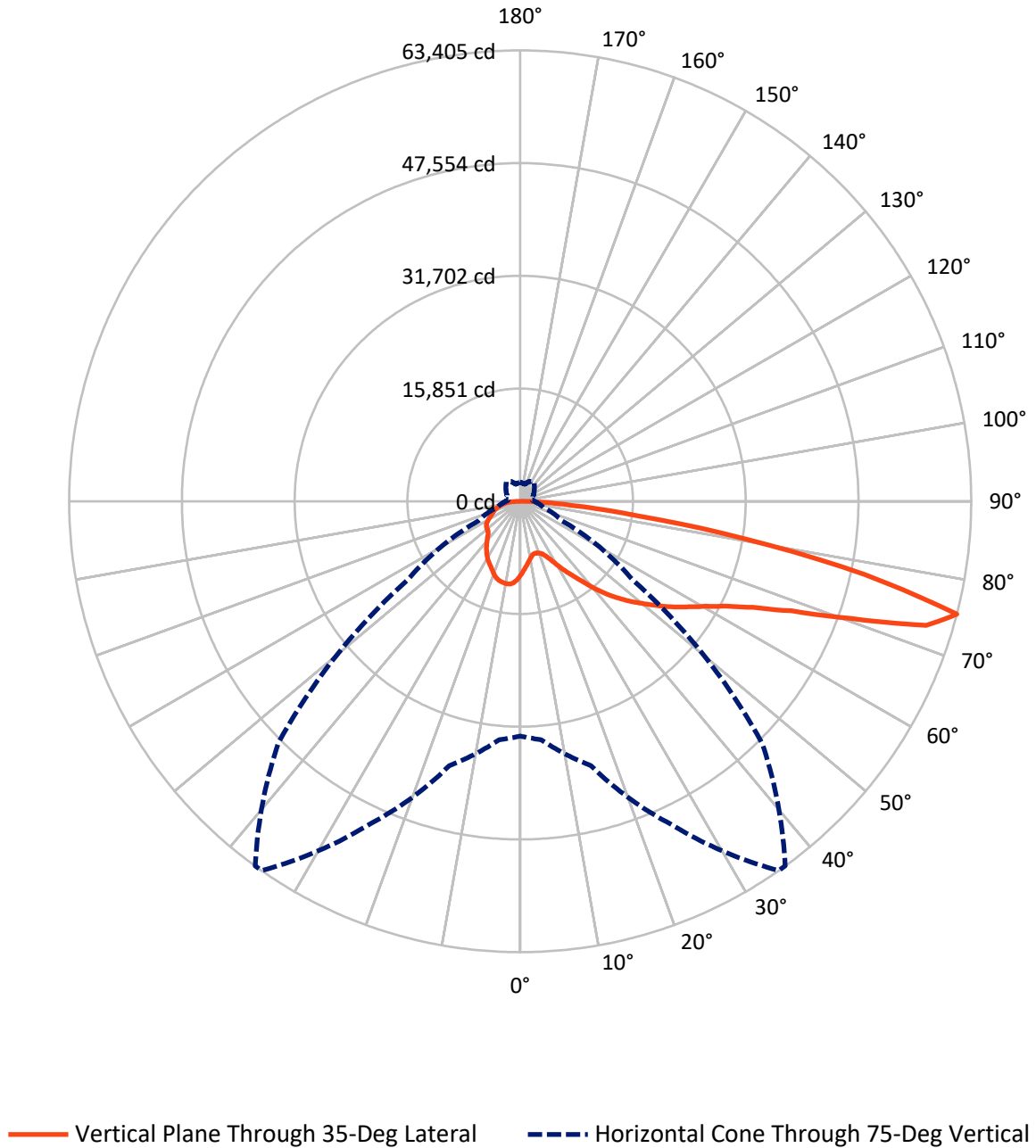
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P944099
CATALOG NUMBER: GALN-SB8D-850-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18512.5	0.0	18512.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	59279.5	0.0	59279.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	77792.0	0.0	77792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.5	1.3
10°-20°	2831.0	3.6
20°-30°	4754.0	6.1
30°-40°	7388.4	9.5
40°-50°	10966.4	14.1
50°-60°	15139.7	19.5
60°-70°	18367.9	23.6
70°-80°	15179.7	19.5
80°-90°	2183.3	2.8
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°	77792.0	100.0
0°-180°	77792.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944099

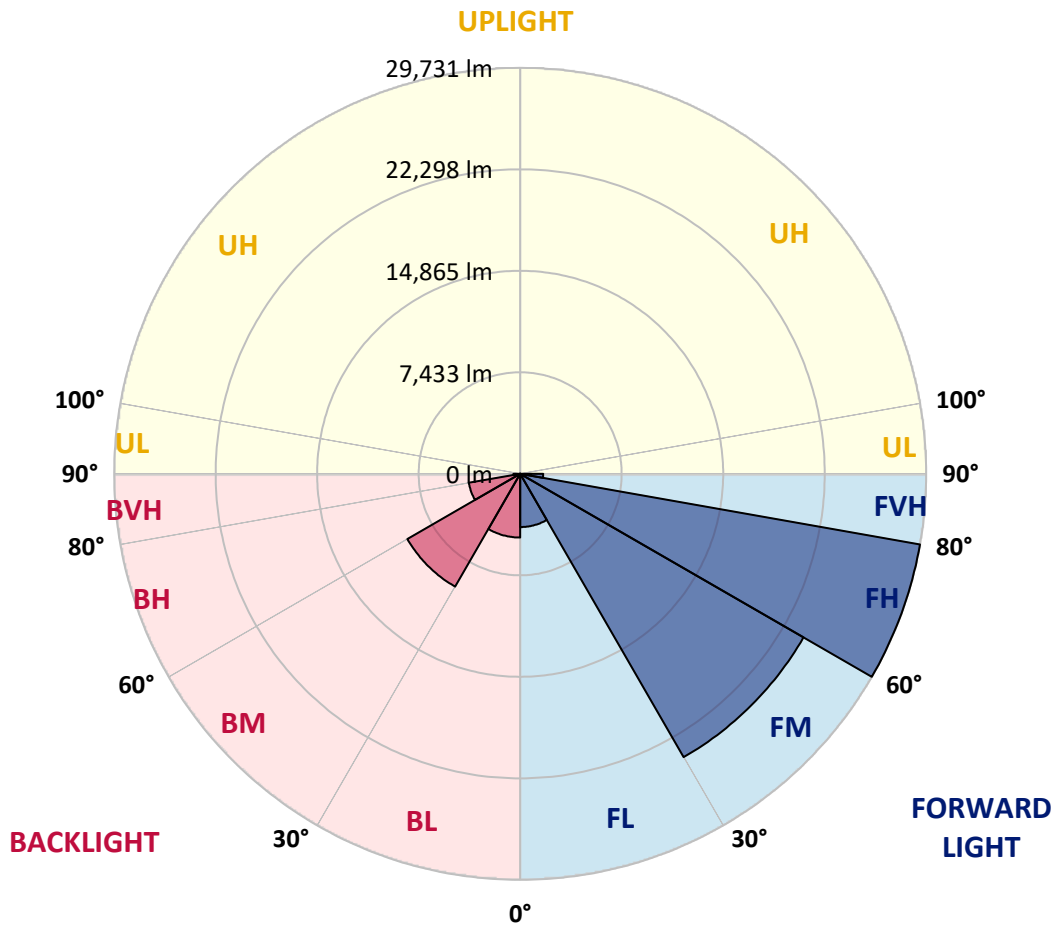
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3901.1	5.0			
FM (30°-60°)	23955.7	30.8			
FH (60°-80°)	29730.9	38.2			G5
FVH (80°-90°)	1691.7	2.2			G5
BL (0°-30°)	4665.4	6.0	B4/5000		
BM (30°-60°)	9538.8	12.3	B5		
BH (60°-80°)	3816.7	4.9	B4/5000		G4/5000
BVH (80°-90°)	491.6	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 IV Short



REPORT NUMBER: P944099

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3
2.5°	9558.9	9617.7	9643.0	9630.4	9693.4	9685.0	9773.3	9882.7	10034.1	10181.3
5°	8822.9	8886.0	8940.7	8991.1	9113.1	9150.9	9289.7	9500.0	9777.6	10059.3
7.5°	8137.4	8192.1	8276.2	8368.7	8574.8	8612.7	8844.0	9172.0	9558.9	9971.0
10°	7578.1	7632.8	7721.1	7826.2	8082.8	8129.0	8423.4	8860.8	9365.4	9886.9
12.5°	7338.4	7355.2	7405.7	7510.8	7733.7	7763.2	8087.0	8587.4	9176.2	9823.8
15°	7325.8	7359.4	7363.7	7418.3	7603.4	7616.0	7914.6	8410.8	9058.4	9811.2
17.5°	7452.0	7477.2	7439.4	7473.0	7628.6	7649.6	7885.1	8326.7	9020.6	9865.9
20°	7788.4	7809.4	7695.9	7649.6	7763.2	7780.0	8011.3	8381.4	9058.4	9979.4
22.5°	8503.3	8515.9	8238.4	8049.1	8057.5	8066.0	8267.8	8604.2	9205.6	10185.5
25°	9617.7	9609.3	9167.8	8801.9	8591.6	8545.4	8679.9	8965.9	9453.7	10458.8
27.5°	10921.4	10858.3	10416.8	9870.1	9411.7	9344.4	9315.0	9436.9	9807.0	10820.5
30°	12393.3	12334.4	11859.2	11144.3	10509.3	10400.0	10122.4	10059.3	10332.7	11312.5
32.5°	14008.2	13970.3	13402.6	12536.3	11686.8	11560.6	11093.8	10925.6	11140.1	12056.9
35°	15362.3	15328.7	14857.7	13966.1	12927.4	12771.8	12296.6	12107.3	12216.7	13011.5
37.5°	16586.1	16569.3	16165.6	15463.3	14390.9	14201.6	13667.5	13604.5	13583.4	14268.9
40°	17721.6	17679.5	17259.0	16888.9	16094.1	15921.6	15450.6	15396.0	15236.2	15816.5
42.5°	18979.0	18869.6	18259.8	18087.4	17872.9	17730.0	17448.2	17456.6	17103.4	17561.7
45°	20005.1	19942.0	19315.4	19214.5	19445.8	19386.9	19630.8	19693.9	19008.4	19391.1
47.5°	21106.9	21048.0	20518.1	20446.7	21073.3	21090.1	21952.2	21973.2	20867.2	21291.9
50°	22465.2	22381.1	21855.5	21943.8	22646.1	22709.2	24286.2	24143.2	22578.8	23222.2
52.5°	23361.0	23411.5	23297.9	23440.9	24399.7	24458.6	26582.3	26216.5	24273.6	25127.3
55°	24021.2	24122.2	24475.4	24803.4	26250.1	26309.0	28748.1	28188.8	25678.2	26893.5
57.5°	24870.7	24727.8	25388.0	26027.2	28008.0	28163.6	30855.0	30089.6	26923.0	28415.9
60°	26090.3	25989.4	26502.4	27448.6	29976.1	30224.2	33083.9	31801.2	27835.5	29622.8
62.5°	28563.1	28310.8	28390.7	29227.5	32457.3	32785.3	35598.7	33294.1	28289.7	30093.8
65°	32259.6	31826.5	31422.7	32003.1	35952.0	36275.8	38437.4	34467.5	28121.5	29181.3
67.5°	36915.0	36486.0	35989.8	36536.5	41099.4	41355.9	41940.5	35127.7	26796.8	25665.6
70°	40754.5	40594.7	41187.7	43437.6	49320.9	49329.3	46431.8	34581.0	23167.5	18196.8
72.5°	40245.7	40149.0	43273.6	50229.3	59683.0	59460.1	50683.5	30442.9	15606.2	8208.9
75°	33016.6	33643.2	38483.6	50107.3	63404.8	63375.4	48080.3	19353.2	6455.3	3402.2
77.5°	17704.7	18697.2	24984.3	36994.9	49497.6	50241.9	33803.0	6770.7	2771.4	2178.4
80°	5774.0	6640.3	9958.4	18836.0	32162.9	32024.1	14487.6	2657.8	1896.6	1543.4
82.5°	2451.7	2552.7	4449.3	8894.4	16506.2	16249.7	4613.3	1526.6	1333.1	1055.6
85°	958.8	1072.4	1963.9	4112.9	7149.2	6993.6	1665.3	757.0	853.7	689.7
87.5°	315.4	382.7	702.3	1408.8	2224.7	2144.8	407.9	260.7	370.1	315.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944099
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10366.3	0°	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3	10366.3
10395.7	2.5°	10454.6	10521.9	10601.8	10719.6	10820.5	10904.6	10992.9	11047.6	11068.6	11131.7
10412.6	5°	10530.3	10677.5	10875.2	11068.6	11257.9	11371.4	11472.3	11522.8	11569.1	11602.7
10458.8	7.5°	10656.5	10845.7	11156.9	11409.2	11569.1	11661.6	11728.9	11712.0	11728.9	11737.3
10509.3	10°	10765.8	11030.8	11400.8	11640.5	11762.5	11766.7	11749.9	11691.0	11661.6	11665.8
10585.0	12.5°	10896.2	11190.6	11590.1	11791.9	11825.6	11733.1	11661.6	11560.6	11522.8	11506.0
10698.5	15°	11072.8	11409.2	11796.1	11871.8	11787.7	11670.0	11548.0	11384.0	11299.9	11232.6
10892.0	17.5°	11287.3	11657.4	11956.0	11901.3	11720.4	11527.0	11329.3	11081.2	10908.8	10837.3
11156.9	20°	11585.9	11918.1	12077.9	11838.2	11564.8	11270.5	10934.0	10631.3	10471.4	10400.0
11493.4	22.5°	11947.5	12267.2	12195.7	11728.9	11342.0	10871.0	10450.4	10227.5	10147.6	10097.2
11926.5	25°	12380.7	12654.0	12279.8	11569.1	10976.1	10341.1	10017.3	9945.8	9907.9	9870.1
12456.4	27.5°	12944.2	13091.4	12342.8	11333.6	10404.2	9777.6	9659.8	9672.4	9659.8	9596.7
13192.3	30°	13688.6	13659.1	12401.7	10950.9	9748.1	9268.7	9277.1	9331.8	9340.2	9298.1
14218.5	32.5°	14668.4	14369.9	12431.2	10454.6	9121.5	8822.9	8831.3	8890.2	8932.3	8860.8
15560.0	35°	15854.4	15198.3	12384.9	9832.2	8637.9	8398.2	8335.1	8351.9	8364.5	8297.3
17187.5	37.5°	17237.9	16127.7	12178.8	9142.5	8238.4	7981.8	7847.3	7733.7	7666.4	7603.4
19029.4	40°	18756.1	17141.2	11800.4	8469.7	7792.6	7540.3	7338.4	7123.9	6896.9	6812.7
20980.7	42.5°	20345.7	18184.1	11342.0	7826.2	7279.5	7073.5	6859.0	6547.8	6207.2	6034.7
23007.7	45°	21994.2	19252.3	10892.0	7191.2	6753.9	6665.6	6417.4	6043.2	5673.1	5454.4
25038.9	47.5°	23609.1	20261.6	10231.7	6552.0	6261.8	6358.6	6165.1	5820.3	5408.1	5063.3
27053.3	50°	25152.5	21207.8	9150.9	5904.4	5862.3	6266.0	6081.0	5584.8	5113.8	4672.2
29029.9	52.5°	26683.3	21973.2	7767.4	5315.6	5647.9	6240.8	5971.7	5425.0	4848.8	4386.2
30888.7	55°	27982.7	22368.5	6434.3	4811.0	5336.7	6026.3	5841.3	5235.7	4474.5	3982.5
32162.9	57.5°	28722.9	22048.9	5324.0	4314.7	4907.7	5673.1	5618.4	4832.0	4028.8	3650.3
32411.0	60°	28403.3	20753.6	4415.7	3881.6	4499.8	5290.4	5231.5	4432.5	3688.1	3330.7
31082.1	62.5°	26641.2	18285.1	3696.5	3503.1	4129.7	4899.3	4844.6	4125.5	3427.4	3082.6
27553.8	65°	23091.8	14874.5	3137.2	3187.7	3755.4	4428.3	4508.2	3869.0	3221.3	2884.9
21317.2	67.5°	17612.2	10774.2	2699.9	2914.3	3389.6	3965.7	4197.0	3683.9	3048.9	2729.3
12334.4	70°	10038.3	6118.9	2329.8	2649.4	3065.7	3536.7	3957.3	3536.7	2863.9	2598.9
4621.7	72.5°	3805.9	2809.2	2014.4	2384.5	2754.5	3175.1	3692.3	3305.4	2649.4	2451.7
2388.7	75°	2031.2	1711.6	1694.8	2073.3	2397.1	2821.8	3360.1	3078.4	2489.6	2590.5
1652.7	77.5°	1383.6	1211.2	1417.2	1774.7	2006.0	2430.7	3006.9	2733.5	2157.4	2149.0
1143.9	80°	958.8	857.9	1152.3	1429.8	1551.8	2043.8	2624.2	2346.6	1757.9	1640.1
706.5	82.5°	576.1	559.3	862.1	1068.2	1097.6	1577.0	2174.2	1968.1	1438.2	1253.2
420.5	85°	315.4	332.2	550.9	626.6	639.2	1101.8	1703.2	1522.4	1106.0	929.4
151.4	87.5°	88.3	113.5	201.9	248.1	307.0	571.9	1013.5	904.2	555.1	386.9
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>
10366.3
11127.5
11611.1
11749.9
11674.2
11497.6
11253.6
10841.5
10391.5
10105.6
9870.1
9609.3
9319.2
8894.4
8343.5
7645.4
6850.6
6055.8
5437.6
5025.5
4634.4
4335.8
3940.5
3599.8
3280.2
3027.9
2830.2
2678.8
2565.3
2418.1
2674.6
1980.7
1568.6
1261.6
937.8
386.9
0.0

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