

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: P944139

Luminaire Tested: **GALN-SB8D-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944139
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-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58934 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

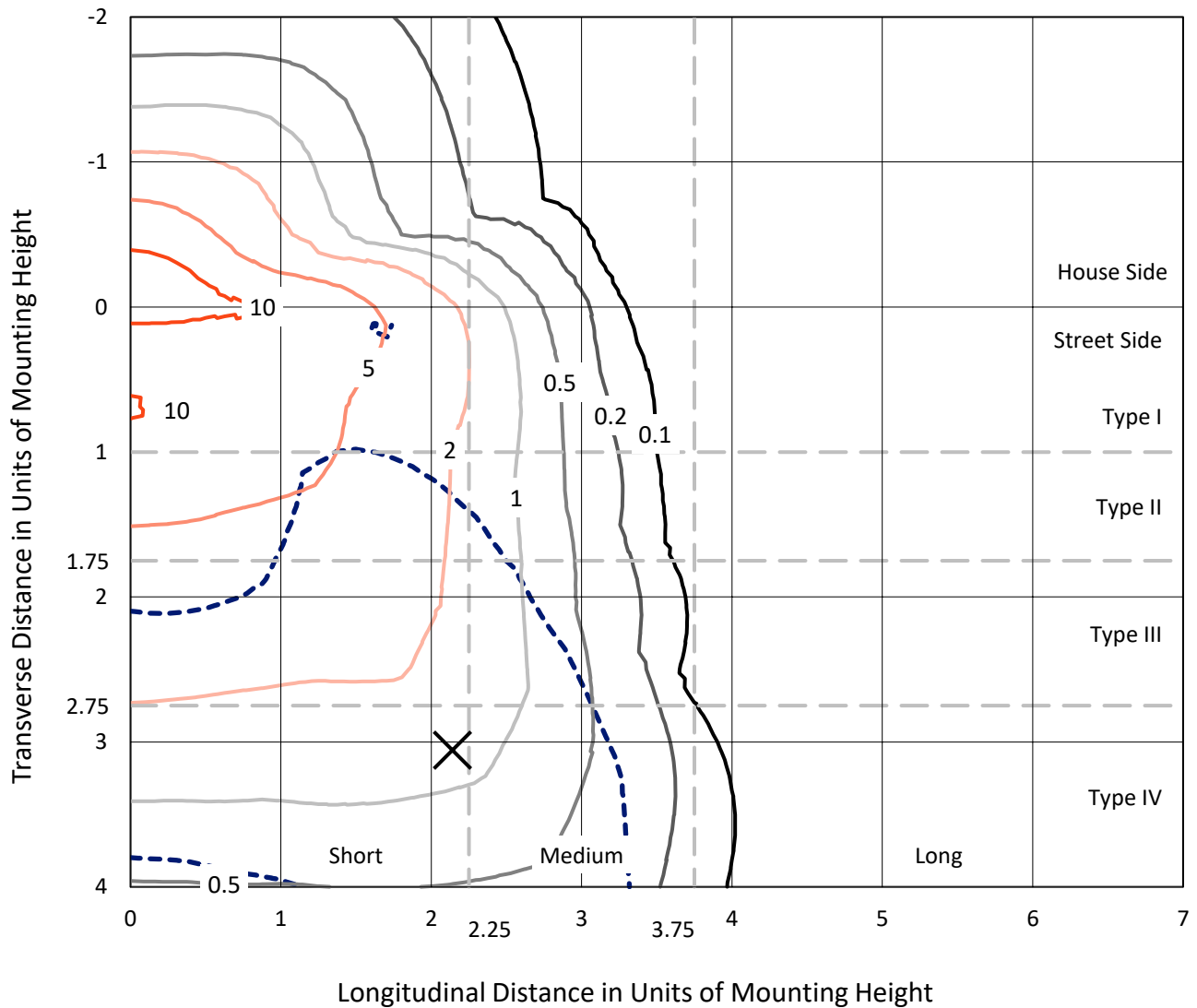
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

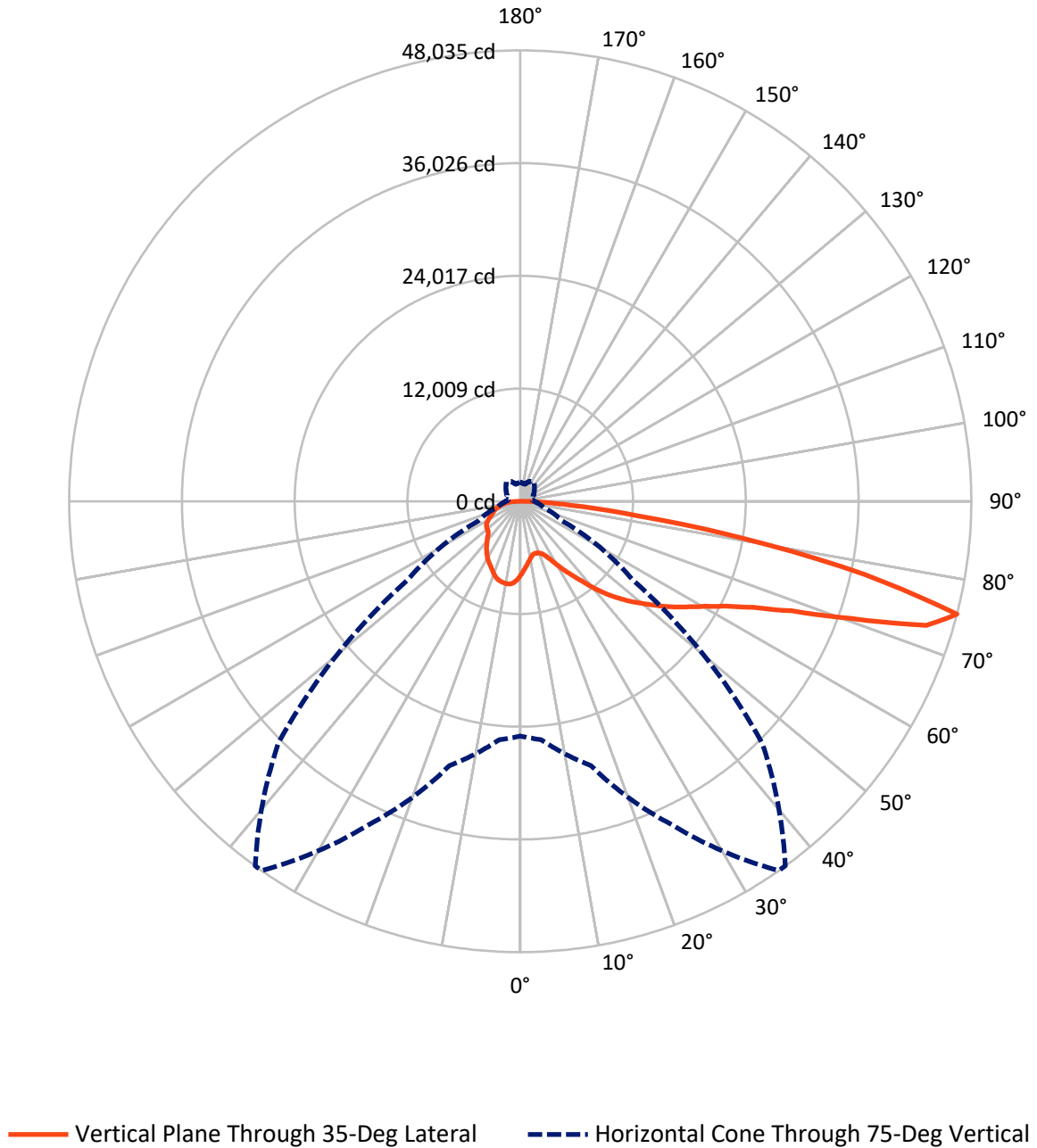
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14024.8	0.0	14024.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	44909.2	0.0	44909.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	58934.0	0.0	58934.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.6	1.3
10°-20°	2144.7	3.6
20°-30°	3601.6	6.1
30°-40°	5597.3	9.5
40°-50°	8308.0	14.1
50°-60°	11469.6	19.5
60°-70°	13915.3	23.6
70°-80°	11499.9	19.5
80°-90°	1654.0	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°	58934.0	100.0
0°-180°	58934.0	100.0



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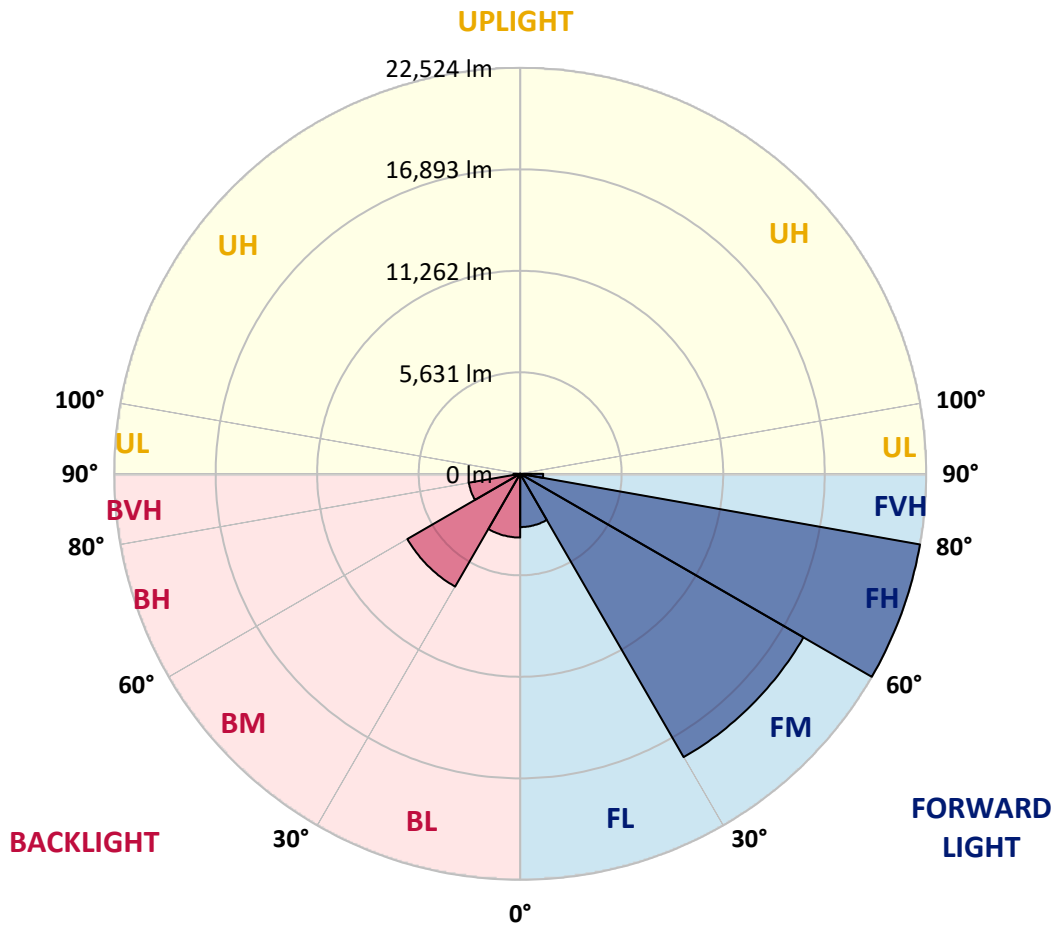
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2955.4	5.0			
FM (30°-60°)	18148.5	30.8			
FH (60°-80°)	22523.7	38.2			G5
FVH (80°-90°)	1281.6	2.2			G5
BL (0°-30°)	3534.4	6.0	B4/5000		
BM (30°-60°)	7226.4	12.3	B4/8500		
BH (60°-80°)	2891.5	4.9	B4/5000		G4/5000
BVH (80°-90°)	372.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4
2.5°	7241.7	7286.3	7305.4	7295.8	7343.6	7337.2	7404.1	7487.0	7601.7	7713.2
5°	6684.1	6731.9	6773.3	6811.6	6903.9	6932.6	7037.8	7197.0	7407.3	7620.8
7.5°	6164.8	6206.2	6269.9	6340.0	6496.1	6524.8	6700.0	6948.5	7241.7	7553.9
10°	5741.1	5782.5	5849.4	5929.0	6123.4	6158.4	6381.4	6712.8	7095.1	7490.2
12.5°	5559.5	5572.2	5610.4	5690.1	5859.0	5881.3	6126.6	6505.7	6951.7	7442.4
15°	5549.9	5575.4	5578.6	5620.0	5760.2	5769.7	5995.9	6371.9	6862.5	7432.8
17.5°	5645.5	5664.6	5635.9	5661.4	5779.3	5795.2	5973.6	6308.2	6833.9	7474.2
20°	5900.4	5916.3	5830.3	5795.2	5881.3	5894.0	6069.2	6349.6	6862.5	7560.2
22.5°	6442.0	6451.5	6241.3	6097.9	6104.3	6110.6	6263.6	6518.4	6974.0	7716.4
25°	7286.3	7279.9	6945.4	6668.2	6508.9	6473.8	6575.8	6792.4	7162.0	7923.4
27.5°	8273.9	8226.1	7891.6	7477.4	7130.1	7079.2	7056.9	7149.3	7429.6	8197.4
30°	9389.0	9344.4	8984.4	8442.8	7961.7	7878.8	7668.6	7620.8	7827.9	8570.2
32.5°	10612.4	10583.7	10153.6	9497.3	8853.7	8758.2	8404.5	8277.1	8439.6	9134.1
35°	11638.3	11612.8	11255.9	10580.5	9793.6	9675.7	9315.7	9172.3	9255.2	9857.3
37.5°	12565.4	12552.6	12246.8	11714.7	10902.3	10758.9	10354.3	10306.5	10290.6	10809.9
40°	13425.6	13393.7	13075.1	12794.8	12192.6	12062.0	11705.2	11663.7	11542.7	11982.3
42.5°	14378.2	14295.3	13833.4	13702.7	13540.3	13431.9	13218.5	13224.9	12957.2	13304.5
45°	15155.5	15107.8	14633.0	14556.6	14731.8	14687.2	14872.0	14919.8	14400.5	14690.4
47.5°	15990.3	15945.7	15544.2	15490.1	15964.8	15977.5	16630.6	16646.6	15808.7	16130.4
50°	17019.3	16955.6	16557.4	16624.3	17156.3	17204.1	18398.8	18290.5	17105.3	17592.8
52.5°	17697.9	17736.2	17650.1	17758.5	18484.9	18529.5	20138.4	19861.2	18389.3	19036.0
55°	18198.1	18274.6	18542.2	18790.7	19886.7	19931.3	21779.1	21355.4	19453.4	20374.1
57.5°	18841.7	18733.4	19233.5	19717.8	21218.4	21336.3	23375.3	22795.4	20396.4	21527.4
60°	19765.6	19689.1	20077.8	20794.7	22709.4	22897.4	25063.8	24092.1	21087.8	22441.8
62.5°	21638.9	21447.8	21508.3	22142.3	24589.1	24837.6	26969.0	25223.1	21431.9	22798.6
65°	24439.4	24111.2	23805.4	24245.0	27236.6	27482.0	29119.5	26112.0	21304.4	22107.3
67.5°	27966.2	27641.3	27265.3	27679.5	31136.2	31330.6	31773.4	26612.2	20300.8	19443.8
70°	30875.0	30753.9	31203.1	32907.6	37364.8	37371.1	35176.0	26198.0	17551.4	13785.6
72.5°	30489.5	30416.2	32783.4	38052.9	45214.9	45046.1	38397.0	23063.1	11823.0	6219.0
75°	25012.9	25487.6	29154.6	37960.5	48034.5	48012.2	36424.9	14661.7	4890.4	2577.4
77.5°	13412.8	14164.7	18927.7	28026.8	37498.6	38062.5	25608.6	5129.4	2099.5	1650.3
80°	4374.3	5030.6	7544.3	14269.8	24366.1	24261.0	10975.6	2013.5	1436.9	1169.2
82.5°	1857.4	1933.9	3370.7	6738.3	12504.8	12310.5	3495.0	1156.5	1009.9	799.7
85°	726.4	812.4	1487.8	3115.9	5416.1	5298.2	1261.6	573.5	646.7	522.5
87.5°	238.9	289.9	532.1	1067.3	1685.4	1624.8	309.0	197.5	280.4	238.9
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°
7853.4	0°	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4	7853.4
7875.7	2.5°	7920.3	7971.2	8031.8	8121.0	8197.4	8261.2	8328.1	8369.5	8385.4	8433.2
7888.4	5°	7977.6	8089.1	8238.9	8385.4	8528.8	8614.8	8691.3	8729.5	8764.5	8790.0
7923.4	7.5°	8073.2	8216.6	8452.3	8643.5	8764.5	8834.6	8885.6	8872.9	8885.6	8892.0
7961.7	10°	8156.0	8356.7	8637.1	8818.7	8911.1	8914.3	8901.5	8856.9	8834.6	8837.8
8019.0	12.5°	8254.8	8477.8	8780.5	8933.4	8958.9	8888.8	8834.6	8758.2	8729.5	8716.7
8105.0	15°	8388.6	8643.5	8936.6	8993.9	8930.2	8841.0	8748.6	8624.4	8560.6	8509.7
8251.6	17.5°	8551.1	8831.4	9057.6	9016.2	8879.2	8732.7	8582.9	8395.0	8264.3	8210.2
8452.3	20°	8777.3	9029.0	9150.0	8968.4	8761.3	8538.3	8283.5	8054.1	7933.0	7878.8
8707.2	22.5°	9051.3	9293.4	9239.2	8885.6	8592.5	8235.7	7917.1	7748.2	7687.7	7649.5
9035.3	25°	9379.4	9586.5	9303.0	8764.5	8315.3	7834.2	7588.9	7534.8	7506.1	7477.4
9436.8	27.5°	9806.3	9917.8	9350.7	8586.1	7882.0	7407.3	7318.1	7327.7	7318.1	7270.3
9994.3	30°	10370.3	10347.9	9395.4	8296.2	7385.0	7021.8	7028.2	7069.6	7076.0	7044.1
10771.7	32.5°	11112.6	10886.4	9417.7	7920.3	6910.3	6684.1	6690.5	6735.1	6766.9	6712.8
11788.0	35°	12011.0	11514.0	9382.6	7448.7	6543.9	6362.3	6314.5	6327.3	6336.8	6285.9
13021.0	37.5°	13059.2	12218.1	9226.5	6926.2	6241.3	6046.9	5945.0	5859.0	5808.0	5760.2
14416.4	40°	14209.3	12985.9	8939.8	6416.5	5903.6	5712.4	5559.5	5397.0	5224.9	5161.2
15894.7	42.5°	15413.6	13776.0	8592.5	5929.0	5514.9	5358.8	5196.3	4960.5	4702.5	4571.8
17430.3	45°	16662.5	14585.3	8251.6	5448.0	5116.6	5049.7	4861.8	4578.2	4297.8	4132.2
18969.1	47.5°	17885.9	15349.9	7751.4	4963.7	4743.9	4817.1	4670.6	4409.3	4097.1	3835.9
20495.2	50°	19055.1	16066.7	6932.6	4473.1	4441.2	4747.1	4606.9	4230.9	3874.1	3539.6
21992.6	52.5°	20214.8	16646.6	5884.4	4027.0	4278.7	4727.9	4524.0	4109.9	3673.4	3322.9
23400.8	55°	21199.3	16946.0	4874.5	3644.7	4043.0	4565.5	4425.3	3966.5	3389.8	3017.1
24366.1	57.5°	21760.0	16703.9	4033.4	3268.8	3718.0	4297.8	4256.4	3660.7	3052.1	2765.4
24554.1	60°	21517.9	15722.6	3345.2	2940.6	3409.0	4007.9	3963.3	3358.0	2794.1	2523.3
23547.3	62.5°	20183.0	13852.5	2800.4	2653.9	3128.6	3711.6	3670.2	3125.4	2596.5	2335.3
20874.3	65°	17494.0	11268.7	2376.7	2414.9	2845.0	3354.8	3415.3	2931.1	2440.4	2185.6
16149.6	67.5°	13342.7	8162.4	2045.4	2207.9	2567.9	3004.3	3179.6	2790.9	2309.8	2067.7
9344.4	70°	7604.9	4635.5	1765.0	2007.1	2322.6	2679.4	2998.0	2679.4	2169.6	1968.9
3501.4	72.5°	2883.3	2128.2	1526.1	1806.4	2086.8	2405.4	2797.3	2504.2	2007.1	1857.4
1809.6	75°	1538.8	1296.7	1283.9	1570.7	1816.0	2137.8	2545.6	2332.1	1886.1	1962.5
1252.1	77.5°	1048.2	917.6	1073.7	1344.5	1519.7	1841.5	2278.0	2070.9	1634.4	1628.0
866.6	80°	726.4	649.9	872.9	1083.2	1175.6	1548.4	1988.0	1777.8	1331.7	1242.5
535.2	82.5°	436.5	423.7	653.1	809.2	831.5	1194.7	1647.1	1491.0	1089.6	949.4
318.6	85°	238.9	251.7	417.4	474.7	484.3	834.7	1290.3	1153.3	837.9	704.1
114.7	87.5°	66.9	86.0	152.9	188.0	232.6	433.3	767.8	685.0	420.5	293.1
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>
7853.4
8430.0
8796.4
8901.5
8844.2
8710.4
8525.6
8213.4
7872.5
7655.8
7477.4
7279.9
7060.1
6738.3
6320.9
5792.0
5189.9
4587.8
4119.4
3807.2
3510.9
3284.7
2985.2
2727.2
2485.0
2293.9
2144.1
2029.4
1943.4
1831.9
2026.3
1500.6
1188.4
955.8
710.5
293.1
0.0

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