

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: P954777

Luminaire Tested: **GALN-SB7D-935-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-935-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51277 lumens
Efficiency: N/A
Efficacy: 100.0 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

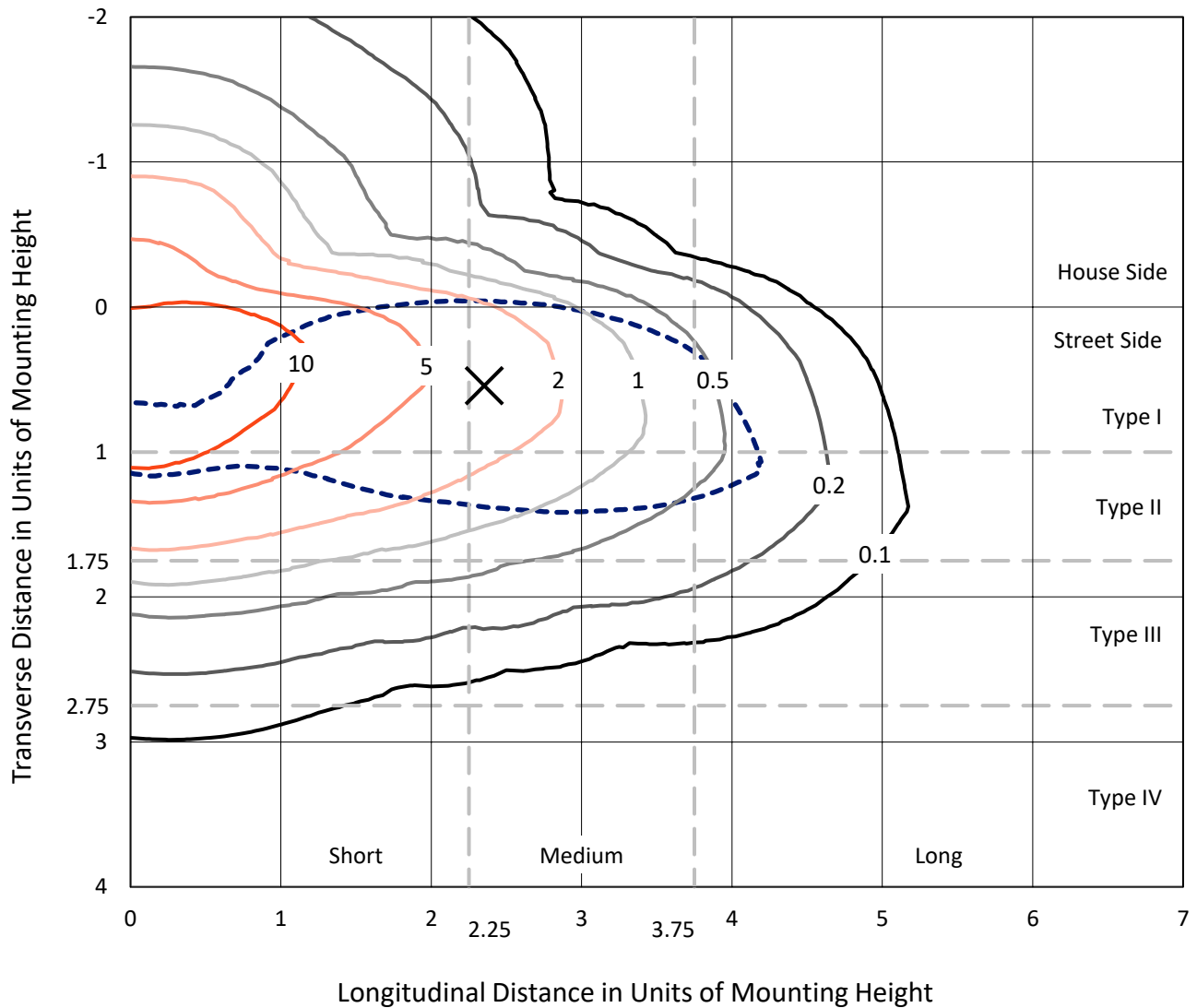
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

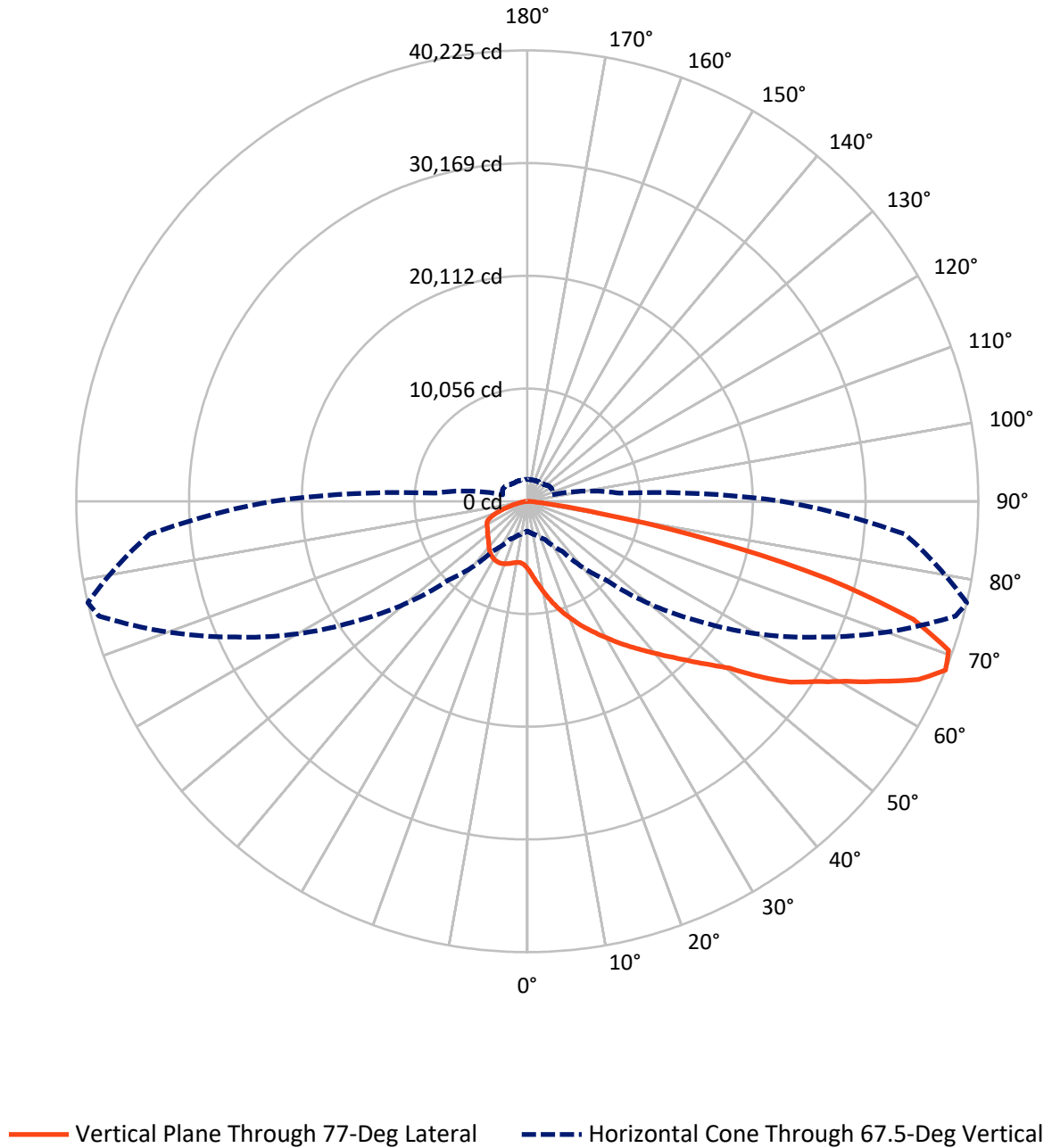
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9699.5	0.0	9699.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	41577.4	0.0	41577.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	51277.0	0.0	51277.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.9	1.3
10°-20°	2316.8	4.5
20°-30°	4374.3	8.5
30°-40°	7046.9	13.7
40°-50°	9638.9	18.8
50°-60°	10872.8	21.2
60°-70°	10148.4	19.8
70°-80°	5563.0	10.8
80°-90°	671.0	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°	51277.0	100.0
0°-180°	51277.0	100.0



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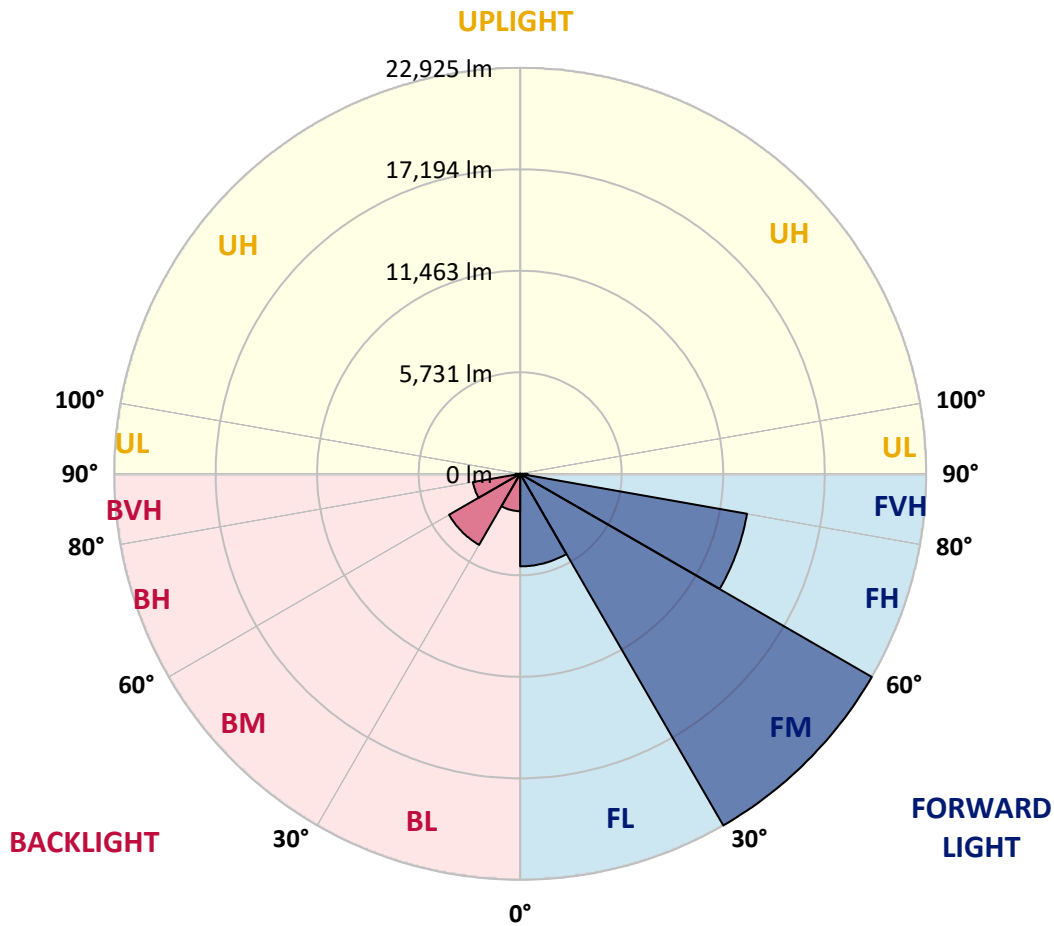
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5227.0	10.2			
FM (30°-60°)	22925.4	44.7			
FH (60°-80°)	13005.4	25.4			G5
FVH (80°-90°)	419.6	0.8			G3/500
BL (0°-30°)	2108.9	4.1	B3/2500		
BM (30°-60°)	4633.2	9.0	B3/5000		
BH (60°-80°)	2706.0	5.3	B4/5000		G4/5000
BVH (80°-90°)	251.4	0.5			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°	77°
0°	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4
2.5°	7533.1	7586.0	7519.8	7519.8	7297.5	7181.0	6958.7	6789.3	6484.9	6431.9
5°	8904.1	8970.3	8877.7	8838.0	8575.9	8335.1	7961.9	7593.9	7051.3	6995.7
7.5°	9965.5	10050.2	9968.2	9925.8	9692.9	9422.9	8986.2	8472.7	7707.7	7599.2
10°	10831.1	10844.3	10817.8	10833.7	10651.1	10428.8	9981.4	9383.2	8427.7	8279.5
12.5°	11320.8	11381.6	11434.6	11529.9	11498.1	11360.5	10958.1	10243.5	9190.0	8999.4
15°	11551.0	11656.9	11776.0	11995.7	12173.1	12207.5	11900.4	11167.2	9965.5	9735.3
17.5°	11633.1	11733.7	11921.6	12239.2	12620.4	12877.1	12739.5	12064.5	10733.1	10468.5
20°	12048.7	12077.8	12191.6	12493.3	12906.2	13332.4	13435.6	12927.4	11492.8	11193.7
22.5°	12938.0	12879.8	12911.5	13049.2	13345.6	13758.5	13994.1	13689.7	12273.6	11929.5
25°	14407.0	14237.6	14068.2	13909.4	14060.3	14293.2	14560.6	14452.0	13091.5	12654.8
27.5°	16262.5	16056.0	15682.8	15161.4	14978.8	15060.8	15179.9	15158.7	13848.5	13406.5
30°	18088.9	17848.0	17403.3	16648.9	16167.2	15950.2	15860.2	15799.3	14671.7	14200.6
32.5°	19547.3	19356.7	18920.0	18075.6	17376.8	17006.3	16707.2	16490.1	15532.0	15060.8
35°	20823.1	20645.8	20145.5	19224.4	18464.7	18070.3	17678.6	17215.4	16426.6	15950.2
37.5°	21987.7	21810.4	21124.8	20166.7	19401.7	19129.1	18779.7	17993.6	17323.9	16873.9
40°	22723.6	22683.9	22043.3	20958.1	20164.0	20029.0	19912.6	18896.2	18319.1	17900.9
42.5°	22911.5	22998.8	22490.6	21598.6	20841.6	20733.1	21005.7	19917.9	19436.1	19036.4
45°	22458.9	22710.3	22376.8	21770.7	21323.4	21265.1	21974.5	21034.8	20672.2	20307.0
47.5°	21312.8	21738.9	21601.3	21516.6	21453.1	21704.5	22826.8	22220.7	22072.4	21754.8
50°	18999.4	19806.7	20047.6	20582.2	21196.3	22046.0	23602.3	23515.0	23708.2	23387.9
52.5°	14999.9	16111.6	17509.2	18848.5	20407.5	21932.1	24454.6	25373.1	26188.3	26013.7
55°	12382.2	12882.4	13957.1	16413.4	18877.6	21453.1	24838.4	26873.9	28650.0	28493.8
57.5°	10370.5	10817.8	11479.6	13530.9	16564.2	20365.2	25076.7	27789.7	30336.0	30320.1
60°	8213.3	8687.1	9364.7	10817.8	13861.8	18485.9	25023.7	28832.6	32488.0	32620.3
62.5°	5778.2	6299.6	7051.3	8406.5	11101.1	16050.8	23943.8	29587.0	35021.0	35381.0
65°	3798.3	4142.4	4708.8	5878.7	8271.5	12919.5	21881.9	29684.9	37731.4	38340.2
67.5°	2662.8	2795.1	3128.6	3763.9	5452.6	9907.3	18597.1	28671.1	39539.3	40224.8
70°	2077.8	2144.0	2313.4	2567.5	3425.1	6662.2	14250.9	26034.8	39152.8	39867.5
72.5°	1794.6	1858.1	1921.6	1953.4	2297.5	4113.3	9653.2	21768.0	35513.3	35997.7
75°	1627.8	1643.7	1696.7	1686.1	1752.2	2668.1	5571.7	15860.2	28020.0	27853.2
77.5°	1368.4	1389.6	1477.0	1463.7	1556.4	1823.7	2893.1	10235.5	18165.6	17032.7
80°	1159.3	1169.9	1265.2	1249.3	1352.6	1320.8	1477.0	5217.0	7705.1	6527.2
82.5°	402.3	497.6	966.1	995.2	1032.3	799.4	852.3	2128.1	2353.1	1802.5
85°	195.9	209.1	492.3	698.8	696.1	402.3	415.6	759.7	741.1	582.3
87.5°	31.8	39.7	58.2	272.6	217.0	105.9	142.9	148.2	153.5	132.3
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°
6016.4	0°	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4	6016.4
6230.8	2.5°	6082.6	5950.2	5672.3	5415.5	5214.4	5021.2	4912.6	4820.0	4767.1	4756.5
6521.9	5°	6246.7	5974.0	5468.5	5042.3	4764.4	4557.9	4449.4	4380.6	4346.2	4325.0
6913.7	7.5°	6482.2	6082.6	5362.6	4878.2	4587.1	4438.8	4383.3	4372.7	4370.0	4372.7
7387.5	10°	6807.8	6259.9	5352.0	4838.5	4595.0	4513.0	4510.3	4513.0	4523.5	4526.2
7903.6	12.5°	7159.8	6442.5	5394.4	4872.9	4695.6	4650.6	4642.6	4640.0	4647.9	4653.2
8425.1	15°	7543.6	6683.4	5465.8	4947.0	4806.8	4759.1	4751.2	4735.3	4732.6	4730.0
8973.0	17.5°	7938.0	6921.6	5545.2	5026.4	4878.2	4812.0	4782.9	4745.9	4716.8	4708.8
9539.4	20°	8337.7	7157.2	5600.8	5066.2	4883.5	4790.9	4732.6	4669.1	4618.8	4589.7
10111.1	22.5°	8763.9	7403.4	5635.2	5055.6	4835.9	4708.8	4602.9	4528.8	4452.1	4401.8
10688.1	25°	9179.4	7617.8	5632.6	5000.0	4743.2	4581.8	4446.8	4351.5	4245.6	4192.7
11283.7	27.5°	9579.1	7811.0	5566.4	4902.0	4610.9	4430.9	4269.4	4155.6	4052.4	4002.1
11884.5	30°	9992.0	7972.4	5463.2	4759.1	4454.7	4256.2	4078.9	3980.9	3888.3	3840.6
12519.8	32.5°	10402.3	8120.7	5317.6	4581.8	4274.7	4084.2	3909.5	3819.5	3763.9	3763.9
13202.7	35°	10836.4	8223.9	5124.4	4375.3	4084.2	3901.5	3763.9	3710.9	3705.6	3673.9
13925.3	37.5°	11294.3	8290.1	4888.8	4163.6	3896.2	3724.2	3681.8	3618.3	3565.4	3496.5
14719.4	40°	11776.0	8356.2	4605.6	3943.9	3697.7	3602.4	3583.9	3499.2	3348.3	3178.9
15619.3	42.5°	12361.0	8401.2	4311.8	3724.2	3488.6	3456.8	3483.3	3337.7	3096.9	2969.8
16704.5	45°	13038.6	8475.3	4041.8	3507.1	3274.2	3274.2	3385.4	3194.8	2996.3	2916.9
17943.3	47.5°	13917.4	8647.4	3790.3	3268.9	3075.7	3128.6	3168.3	3022.8	2911.6	2813.6
19452.0	50°	15187.9	9060.3	3531.0	3028.0	2924.8	3030.7	2975.1	2890.4	2760.7	2681.3
21850.1	52.5°	16765.4	9303.8	3300.7	2811.0	2795.1	2901.0	2821.6	2742.2	2644.2	2538.4
23668.5	55°	17840.1	9348.8	3107.5	2652.2	2707.8	2697.2	2668.1	2596.6	2543.7	2403.4
25463.1	57.5°	19041.7	9438.8	2948.6	2556.9	2652.2	2535.7	2525.1	2464.3	2395.4	2300.1
27652.1	60°	20479.0	9579.1	2811.0	2519.8	2604.5	2429.8	2376.9	2353.1	2284.3	2236.6
30285.7	62.5°	22046.0	9706.2	2670.7	2525.1	2549.0	2326.6	2247.2	2239.3	2196.9	2181.0
32757.9	65°	23115.3	9359.4	2496.0	2519.8	2461.6	2220.7	2120.2	2117.5	2083.1	2077.8
33829.9	67.5°	22742.1	8260.9	2260.4	2445.7	2371.6	2114.9	2003.7	1993.1	1948.1	1950.8
32710.3	70°	20873.4	6694.0	1934.9	2263.1	2260.4	2019.6	1881.9	1847.5	1786.7	1797.2
28440.9	72.5°	17368.9	4960.3	1498.1	1958.7	2083.1	1932.2	1741.7	1686.1	1609.3	1619.9
20995.1	75°	12543.6	3372.1	1090.5	1490.2	1813.1	1829.0	1604.0	1508.7	1416.1	1432.0
11686.0	77.5°	6418.7	1911.1	802.0	1027.0	1424.0	1662.2	1479.6	1352.6	1331.4	1479.6
3369.5	80°	2093.7	958.2	555.8	720.0	934.4	1360.5	1297.0	1151.4	1146.1	1180.5
706.7	82.5°	624.7	405.0	357.3	473.8	516.1	1042.9	1119.6	870.8	749.1	788.8
235.6	85°	214.4	195.9	203.8	235.6	246.2	611.4	783.5	577.0	545.3	600.8
52.9	87.5°	50.3	68.8	58.2	52.9	52.9	148.2	304.4	240.9	333.5	222.3
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>
6016.4
4756.5
4322.4
4380.6
4528.8
4655.9
4727.3
4716.8
4600.3
4404.4
4192.7
3999.5
3838.0
3766.5
3665.9
3486.0
3155.1
2972.5
2930.1
2811.0
2673.4
2517.2
2406.0
2268.4
2249.9
2181.0
2075.2
1950.8
1807.8
1617.3
1437.3
1458.4
1013.8
815.2
592.9
214.4
0.0

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