

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: P943719

Luminaire Tested: **GALN-SB8B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943719
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-SB8B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39134 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

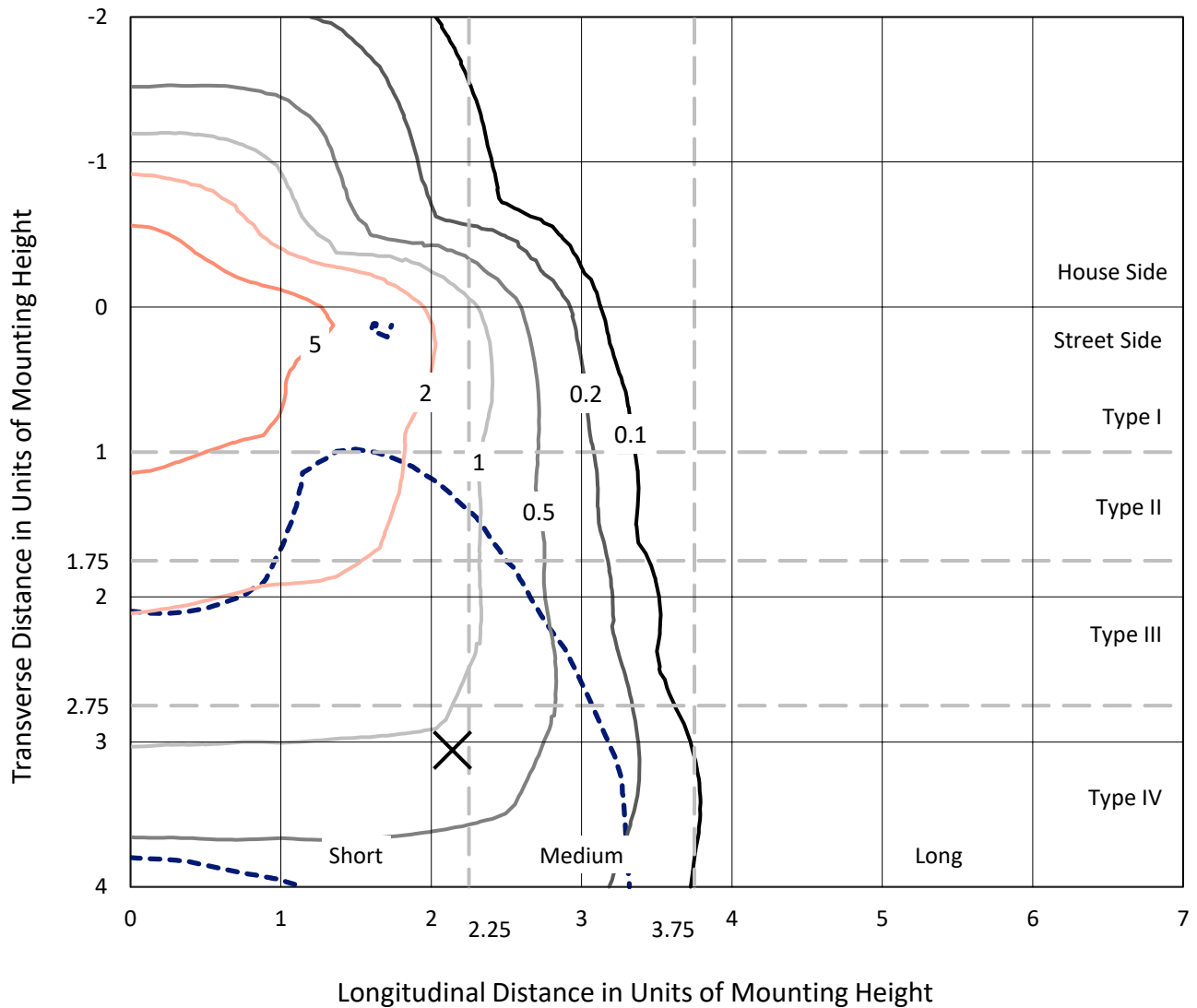
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

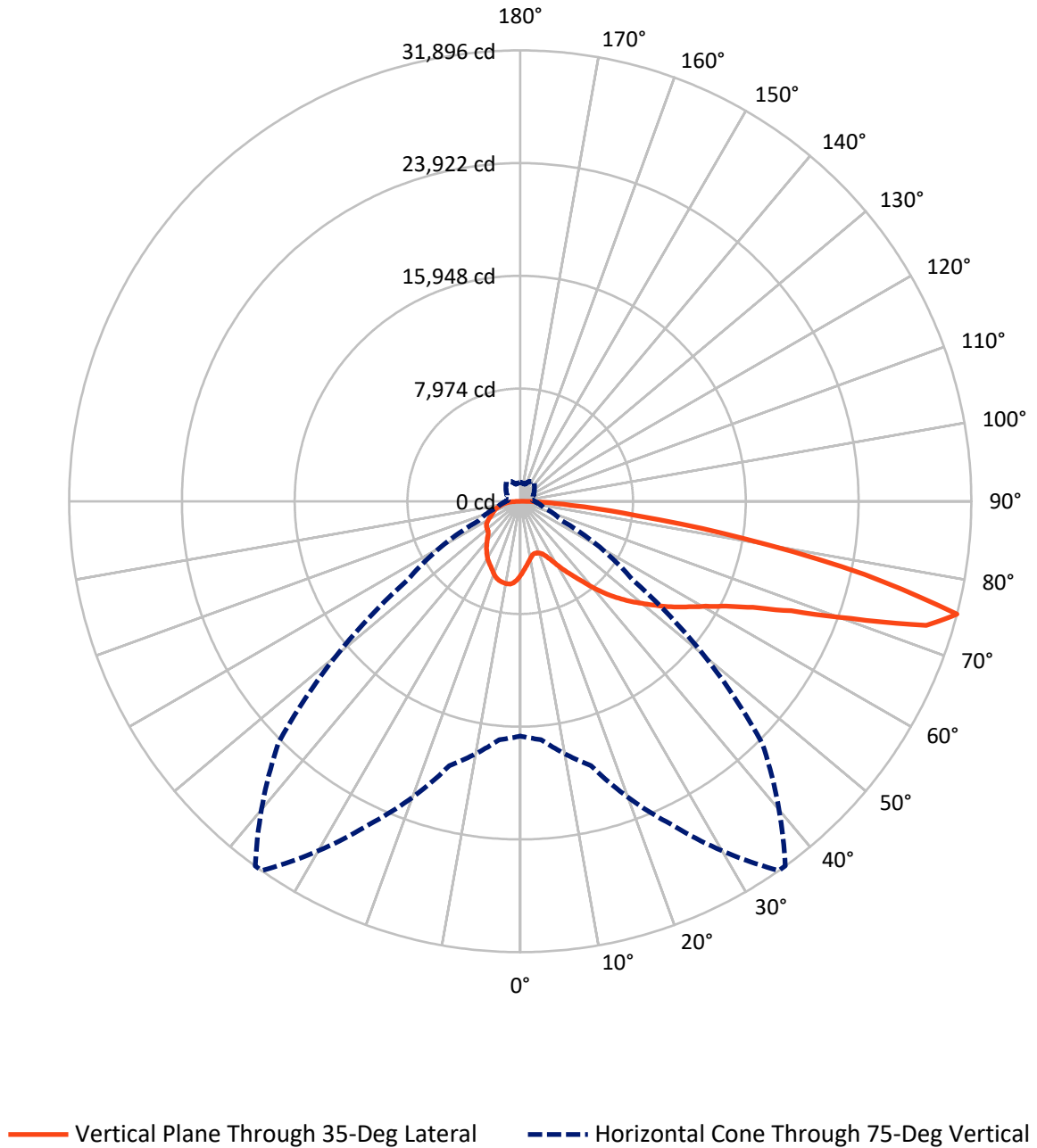
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	9312.9	0.0	9312.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	29821.1	0.0	29821.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	39134.0	0.0	39134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.7	1.3
10°-20°	1424.2	3.6
20°-30°	2391.6	6.1
30°-40°	3716.8	9.5
40°-50°	5516.7	14.1
50°-60°	7616.2	19.5
60°-70°	9240.2	23.6
70°-80°	7636.3	19.5
80°-90°	1098.3	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°	39134.0	100.0
0°-180°	39134.0	100.0

Coefficient of Utilization



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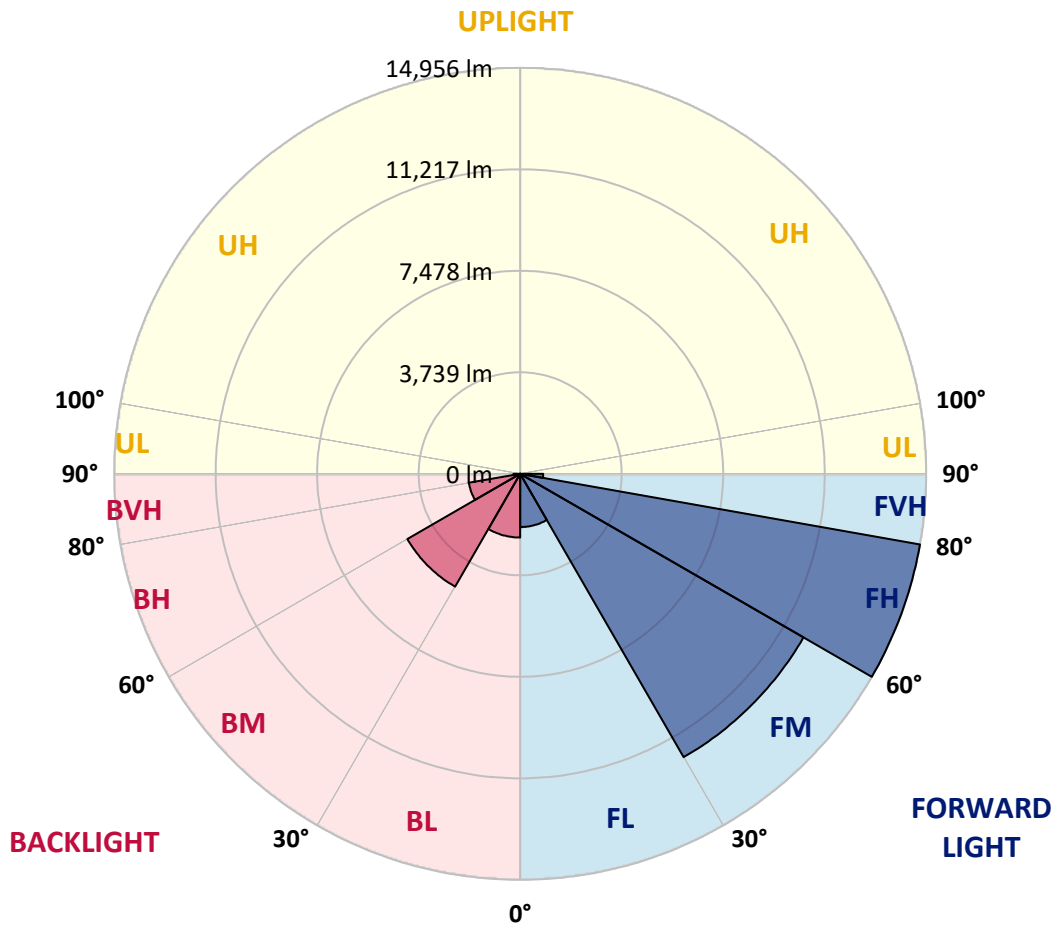
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1962.5	5.0			
FM (30°-60°)	12051.1	30.8			
FH (60°-80°)	14956.4	38.2			G5
FVH (80°-90°)	851.0	2.2			G5
BL (0°-30°)	2347.0	6.0	B3/2500		
BM (30°-60°)	4798.6	12.3	B3/5000		
BH (60°-80°)	1920.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	247.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9
2.5°	4808.7	4838.3	4851.0	4844.6	4876.4	4872.1	4916.6	4971.6	5047.7	5121.8
5°	4438.5	4470.2	4497.7	4523.1	4584.4	4603.5	4673.3	4779.1	4918.7	5060.4
7.5°	4093.6	4121.1	4163.4	4210.0	4313.6	4332.7	4449.0	4614.0	4808.7	5016.0
10°	3812.2	3839.8	3884.2	3937.1	4066.1	4089.4	4237.5	4457.5	4711.4	4973.7
12.5°	3691.7	3700.1	3725.5	3778.4	3890.5	3905.3	4068.2	4320.0	4616.2	4942.0
15°	3685.3	3702.2	3704.4	3731.9	3824.9	3831.3	3981.5	4231.1	4556.9	4935.6
17.5°	3748.8	3761.5	3742.4	3759.4	3837.6	3848.2	3966.7	4188.8	4537.9	4963.1
20°	3918.0	3928.6	3871.5	3848.2	3905.3	3913.8	4030.2	4216.3	4556.9	5020.2
22.5°	4277.7	4284.0	4144.4	4049.2	4053.4	4057.7	4159.2	4328.4	4631.0	5123.9
25°	4838.3	4834.1	4611.9	4427.9	4322.1	4298.8	4366.5	4510.4	4755.8	5261.4
27.5°	5494.1	5462.4	5240.3	4965.2	4734.6	4700.8	4686.0	4747.3	4933.5	5443.4
30°	6234.6	6205.0	5965.9	5606.2	5286.8	5231.8	5092.2	5060.4	5197.9	5690.9
32.5°	7047.0	7027.9	6742.3	6306.5	5879.2	5815.7	5580.9	5496.2	5604.1	6065.3
35°	7728.2	7711.2	7474.3	7025.8	6503.2	6425.0	6185.9	6090.7	6145.7	6545.6
37.5°	8343.8	8335.3	8132.2	7778.9	7239.5	7144.3	6875.6	6843.9	6833.3	7178.1
40°	8915.0	8893.8	8682.3	8496.1	8096.3	8009.5	7772.6	7745.1	7664.7	7956.6
42.5°	9547.5	9492.5	9185.8	9099.0	8991.2	8919.2	8777.5	8781.7	8604.0	8834.6
45°	10063.7	10032.0	9716.8	9666.0	9782.4	9752.8	9875.5	9907.2	9562.4	9754.9
47.5°	10618.0	10588.4	10321.8	10285.9	10601.1	10609.6	11043.3	11053.8	10497.4	10711.1
50°	11301.4	11259.0	10994.6	11039.0	11392.3	11424.1	12217.4	12145.5	11358.5	11682.2
52.5°	11752.0	11777.4	11720.2	11792.2	12274.5	12304.1	13372.5	13188.4	12211.0	12640.5
55°	12084.1	12134.9	12312.6	12477.6	13205.4	13235.0	14462.0	14180.6	12917.6	13529.0
57.5°	12511.5	12439.5	12771.7	13093.2	14089.7	14167.9	15521.9	15136.9	13543.9	14294.9
60°	13125.0	13074.2	13332.3	13808.3	15079.8	15204.6	16643.2	15997.9	14002.9	14902.0
62.5°	14368.9	14242.0	14282.2	14703.2	16327.9	16493.0	17908.3	16748.9	14231.4	15139.0
65°	16228.5	16010.6	15807.5	16099.5	18086.0	18248.9	19336.3	17339.2	14146.8	14679.9
67.5°	18570.4	18354.7	18105.0	18380.0	20675.4	20804.5	21098.5	17671.3	13480.4	12911.3
70°	20502.0	20421.6	20719.9	21851.7	24811.4	24815.6	23358.0	17396.3	11654.7	9154.1
72.5°	20246.0	20197.3	21769.2	25268.3	30024.1	29912.0	25496.8	15314.6	7850.9	4129.6
75°	16609.3	16924.5	19359.5	25207.0	31896.4	31881.6	24187.3	9735.8	3247.4	1711.5
77.5°	8906.5	9405.8	12568.6	18610.6	24900.2	25274.7	17004.9	3406.1	1394.2	1095.9
80°	2904.7	3340.5	5009.7	9475.6	16179.8	16110.0	7288.1	1337.0	954.1	776.4
82.5°	1233.4	1284.1	2238.3	4474.4	8303.6	8174.5	2320.8	768.0	670.6	531.0
85°	482.3	539.5	988.0	2069.0	3596.5	3518.2	837.8	380.8	429.5	347.0
87.5°	158.7	192.5	353.3	708.7	1119.1	1078.9	205.2	131.2	186.2	158.7
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°
5214.9	0°	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9	5214.9
5229.7	2.5°	5259.3	5293.1	5333.3	5392.6	5443.4	5485.7	5530.1	5557.6	5568.2	5599.9
5238.1	5°	5297.4	5371.4	5470.9	5568.2	5663.4	5720.5	5771.3	5796.7	5819.9	5836.8
5261.4	7.5°	5360.8	5456.0	5612.6	5739.5	5819.9	5866.5	5900.3	5891.9	5900.3	5904.5
5286.8	10°	5415.8	5549.1	5735.3	5855.9	5917.2	5919.4	5910.9	5881.3	5866.5	5868.6
5324.9	12.5°	5481.4	5629.5	5830.5	5932.0	5949.0	5902.4	5866.5	5815.7	5796.7	5788.2
5382.0	15°	5570.3	5739.5	5934.2	5972.2	5929.9	5870.7	5809.3	5726.8	5684.5	5650.7
5479.3	17.5°	5678.2	5864.3	6014.6	5987.1	5896.1	5798.8	5699.3	5574.5	5487.8	5451.8
5612.6	20°	5828.4	5995.5	6075.9	5955.3	5817.8	5669.7	5500.5	5348.2	5267.8	5231.8
5781.8	22.5°	6010.3	6171.1	6135.1	5900.3	5705.7	5468.7	5257.2	5145.1	5104.9	5079.5
5999.7	25°	6228.2	6365.7	6177.5	5819.9	5521.6	5202.2	5039.3	5003.3	4984.3	4965.2
6266.3	27.5°	6511.7	6585.8	6209.2	5701.5	5233.9	4918.7	4859.5	4865.8	4859.5	4827.7
6636.5	30°	6886.2	6871.4	6238.8	5508.9	4903.9	4662.7	4666.9	4694.4	4698.7	4677.5
7152.7	32.5°	7379.1	7228.9	6253.6	5259.3	4588.7	4438.5	4442.7	4472.3	4493.5	4457.5
7827.6	35°	7975.7	7645.7	6230.3	4946.2	4345.4	4224.8	4193.1	4201.5	4207.9	4174.0
8646.3	37.5°	8671.7	8113.2	6126.7	4599.2	4144.4	4015.3	3947.6	3890.5	3856.7	3824.9
9572.9	40°	9435.4	8623.0	5936.3	4260.7	3920.1	3793.2	3691.7	3583.8	3469.5	3427.2
10554.6	42.5°	10235.1	9147.7	5705.7	3937.1	3662.0	3558.4	3450.5	3293.9	3122.6	3035.8
11574.3	45°	11064.4	9685.1	5479.3	3617.6	3397.6	3353.2	3228.4	3040.1	2853.9	2743.9
12596.1	47.5°	11876.8	10192.8	5147.2	3296.1	3150.1	3198.7	3101.4	2927.9	2720.6	2547.1
13609.4	50°	12653.2	10668.8	4603.5	2970.3	2949.1	3152.2	3059.1	2809.5	2572.5	2350.4
14603.8	52.5°	13423.3	11053.8	3907.5	2674.1	2841.2	3139.5	3004.1	2729.1	2439.2	2206.5
15538.8	55°	14077.0	11252.7	3236.8	2420.2	2684.7	3031.6	2938.5	2633.9	2251.0	2003.4
16179.8	57.5°	14449.3	11091.9	2678.3	2170.6	2468.9	2853.9	2826.4	2430.8	2026.7	1836.3
16304.7	60°	14288.5	10440.3	2221.3	1952.7	2263.7	2661.4	2631.8	2229.8	1855.4	1675.5
15636.1	62.5°	13402.1	9198.5	1859.6	1762.3	2077.5	2464.6	2437.1	2075.4	1724.2	1550.7
13861.2	65°	11616.6	7482.8	1578.2	1603.6	1889.2	2227.7	2267.9	1946.3	1620.5	1451.3
10723.8	67.5°	8860.0	5420.1	1358.2	1466.1	1705.1	1995.0	2111.3	1853.2	1533.8	1373.0
6205.0	70°	5049.9	3078.1	1172.0	1332.8	1542.2	1779.2	1990.7	1779.2	1440.7	1307.4
2325.0	72.5°	1914.6	1413.2	1013.4	1199.5	1385.7	1597.3	1857.5	1662.8	1332.8	1233.4
1201.6	75°	1021.8	861.0	852.6	1043.0	1205.9	1419.5	1690.3	1548.6	1252.4	1303.2
831.4	77.5°	696.0	609.3	712.9	892.8	1009.1	1222.8	1512.6	1375.1	1085.3	1081.1
575.4	80°	482.3	431.6	579.7	719.3	780.6	1028.2	1320.1	1180.5	884.3	825.1
355.4	82.5°	289.8	281.4	433.7	537.4	552.2	793.3	1093.7	990.1	723.5	630.4
211.6	85°	158.7	167.1	277.1	315.2	321.6	554.3	856.8	765.8	556.4	467.5
76.2	87.5°	44.4	57.1	101.5	124.8	154.4	287.7	509.9	454.8	279.3	194.6
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>
5214.9
5597.8
5841.1
5910.9
5872.8
5784.0
5661.3
5453.9
5227.6
5083.7
4965.2
4834.1
4688.1
4474.4
4197.3
3846.1
3446.3
3046.4
2735.4
2528.1
2331.4
2181.1
1982.3
1810.9
1650.1
1523.2
1423.8
1347.6
1290.5
1216.5
1345.5
996.4
789.1
634.7
471.8
194.6
0.0

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