

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: P943928

Luminaire Tested: **GALN-SB8C-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43858 lumens
Efficiency: N/A
Efficacy: 109.7 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

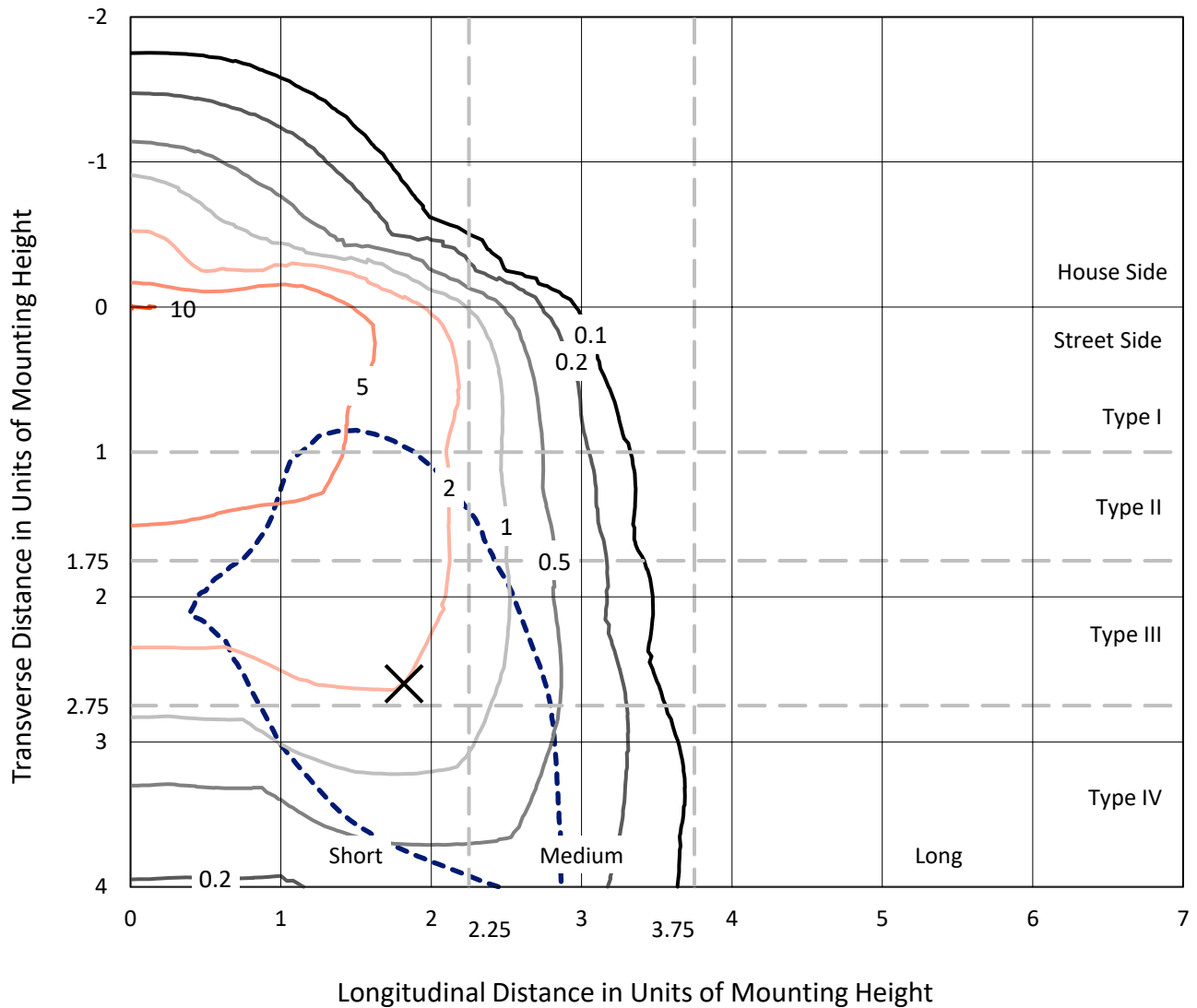
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

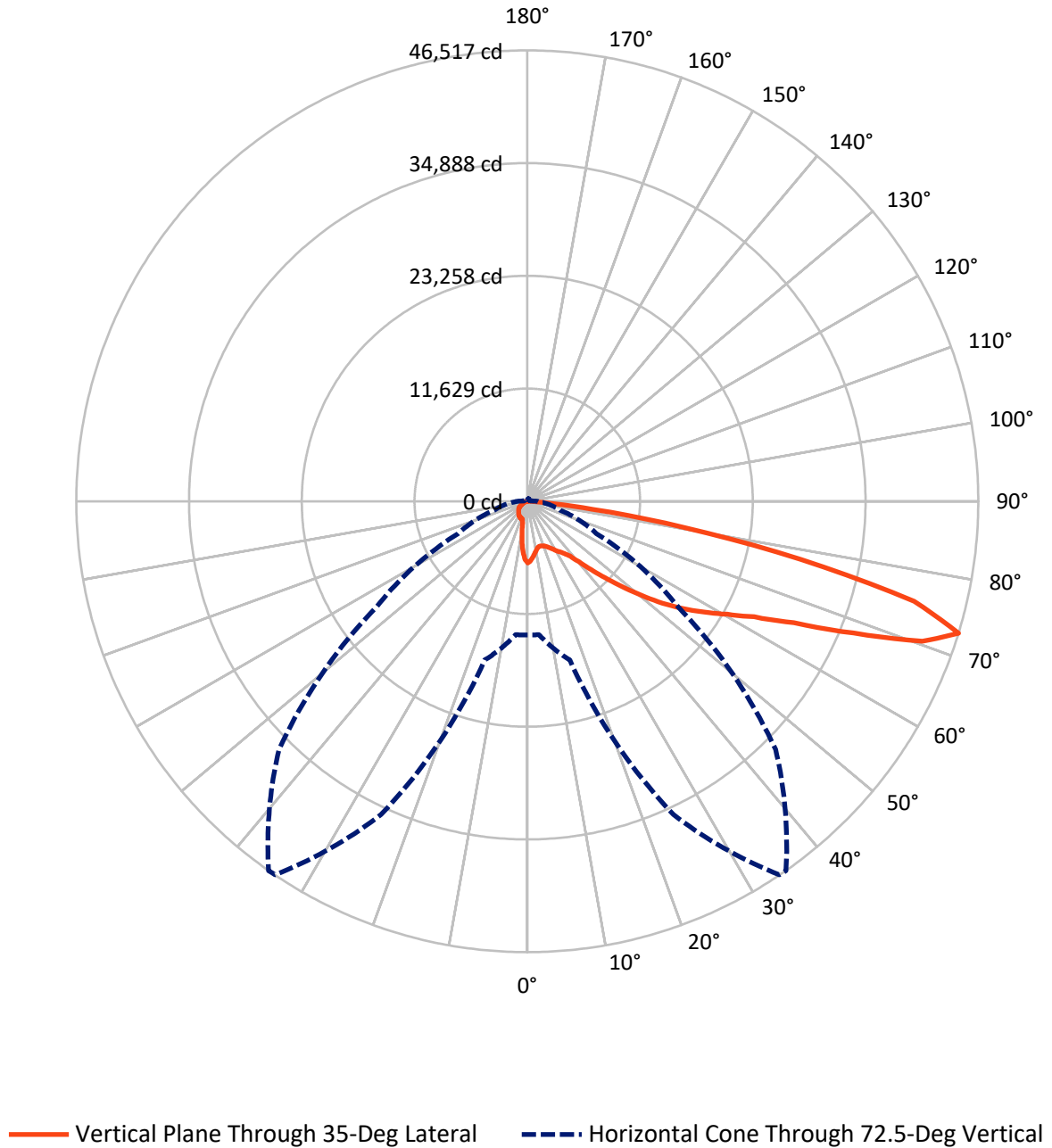
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	4936.0	0.0	4936.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	38922.0	0.0	38922.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	43858.0	0.0	43858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.3	1.2
10°-20°	1221.9	2.8
20°-30°	1985.0	4.5
30°-40°	3312.0	7.6
40°-50°	6266.3	14.3
50°-60°	9957.2	22.7
60°-70°	12317.7	28.1
70°-80°	7656.8	17.5
80°-90°	618.8	1.4
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°	43858.0	100.0
0°-180°	43858.0	100.0

Coefficient of Utilization



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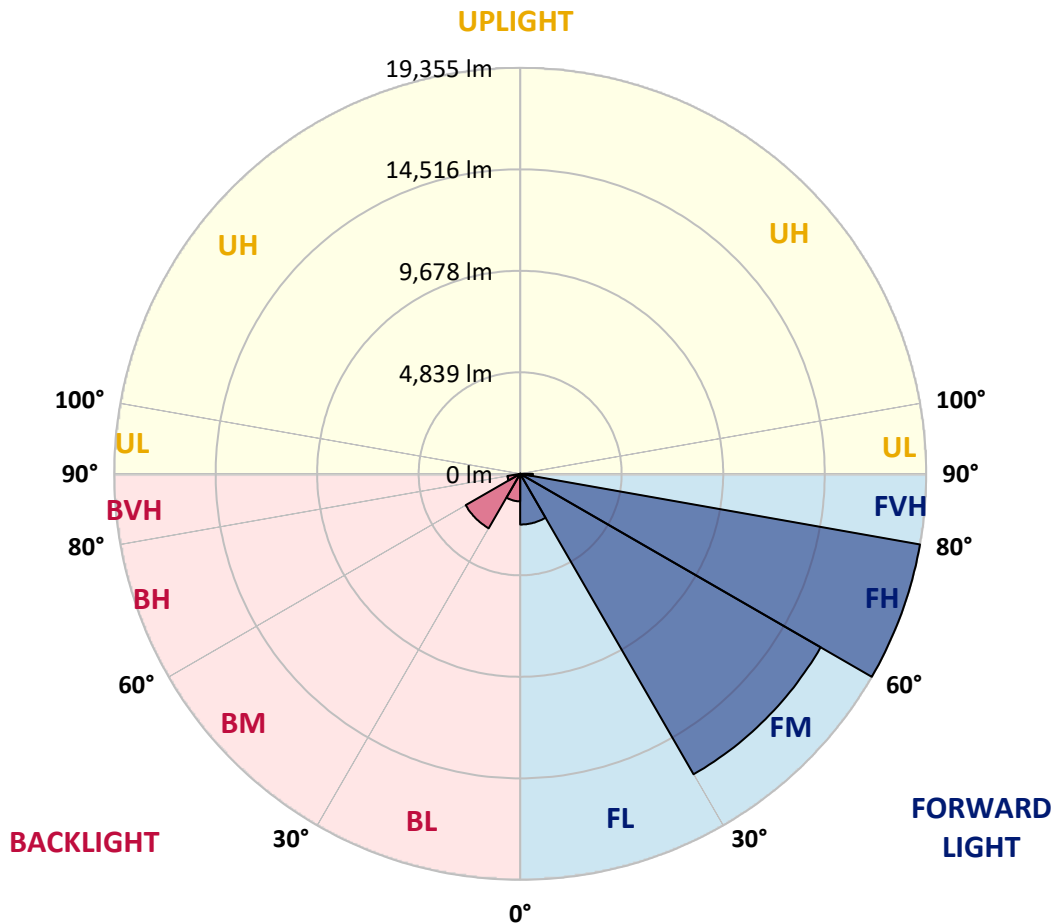
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.7	5.5			
FM (30°-60°)	16538.8	37.7			
FH (60°-80°)	19355.1	44.1			G5
FVH (80°-90°)	610.4	1.4			G4/750
BL (0°-30°)	1311.6	3.0	B3/2500		
BM (30°-60°)	2996.6	6.8	B3/5000		
BH (60°-80°)	619.4	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.4	0.0			G0/10
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°	34°	35°	45°	55°	65°	75°
0°	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5
2.5°	6073.7	6125.1	6134.8	6150.8	6150.8	6170.1	6202.2	6247.2	6321.1	6359.7
5°	5598.1	5636.6	5684.9	5723.4	5797.3	5807.0	5932.3	6054.4	6224.7	6353.3
7.5°	5119.3	5164.3	5228.5	5321.7	5418.1	5447.0	5636.6	5842.3	6112.3	6353.3
10°	4781.8	4785.0	4842.9	4936.1	5090.3	5125.7	5357.1	5649.5	5986.9	6314.7
12.5°	4592.2	4614.7	4640.4	4711.1	4859.0	4881.5	5128.9	5472.8	5861.6	6292.2
15°	4592.2	4608.3	4624.4	4659.7	4778.6	4797.9	5016.4	5360.3	5797.3	6301.9
17.5°	4640.4	4666.1	4653.3	4695.1	4820.4	4833.2	5026.1	5328.1	5794.1	6362.9
20°	4756.1	4775.4	4749.7	4775.4	4900.7	4926.4	5125.7	5389.2	5848.7	6469.0
22.5°	4939.3	4948.9	4887.9	4907.2	5035.7	5067.8	5299.2	5562.7	5980.5	6639.3
25°	5170.7	5190.0	5096.8	5119.3	5241.4	5279.9	5546.7	5823.0	6189.4	6873.9
27.5°	5437.4	5447.0	5366.7	5363.5	5521.0	5575.6	5845.5	6144.4	6469.0	7169.5
30°	5742.7	5771.6	5694.5	5681.6	5880.9	5925.9	6192.6	6539.7	6880.3	7613.0
32.5°	5983.7	6006.2	5961.2	5993.4	6195.8	6231.2	6613.6	7098.8	7526.2	8242.9
35°	6330.8	6343.6	6240.8	6298.6	6530.0	6620.0	7188.8	7883.0	8339.3	9033.4
37.5°	7587.3	7587.3	7150.3	6864.2	7086.0	7166.3	7976.1	8869.5	9341.9	10093.9
40°	9325.9	9296.9	8657.4	8072.6	8043.6	8201.1	9097.7	10113.2	10637.0	11366.5
42.5°	11180.1	11135.1	10264.2	9685.8	9589.4	9644.0	10392.8	11646.1	12179.5	12918.7
45°	12825.5	12812.6	12015.6	11237.9	11064.4	11237.9	12009.2	13439.3	13821.7	14599.4
47.5°	14204.1	14204.1	13622.4	13114.7	13024.7	13127.5	14197.7	15428.5	15393.1	16389.3
50°	15791.6	15778.8	15226.0	15007.5	15100.7	15245.3	16717.1	17523.7	17019.2	18147.2
52.5°	16903.5	16980.6	16791.0	16755.7	17231.3	17482.0	19275.2	19574.0	18475.0	19815.0
55°	17784.0	17874.0	18092.6	18340.0	19255.9	19583.7	21752.8	21518.2	19692.9	21261.2
57.5°	19030.9	18902.4	19239.8	19728.3	21209.7	21605.0	24153.4	23353.2	20673.1	22434.1
60°	20544.5	20563.8	20621.7	21238.7	23160.4	23668.1	26518.6	25088.6	21302.9	23154.0
62.5°	22363.4	22392.3	22511.2	23459.3	25779.5	26258.3	29038.1	26509.0	21592.2	22951.5
65°	22238.1	22360.2	23687.4	26929.9	29761.1	30233.5	31978.5	27505.2	21155.1	21100.5
67.5°	20258.5	20457.8	22678.4	31075.5	35764.1	36291.1	35532.7	27701.2	19268.7	16408.6
70°	17661.9	17732.6	20403.1	34803.3	42715.1	43248.6	38714.2	25544.9	14621.9	9152.3
72.5°	13792.8	13808.8	16942.1	35667.7	46487.9	46516.8	36217.2	18963.4	7863.7	3515.7
75°	9852.9	9756.5	11347.2	28925.6	40899.4	41227.2	27151.7	8895.2	3004.7	1661.4
77.5°	5283.2	5389.2	6420.8	17154.2	28253.9	28813.1	14814.7	2564.5	1529.7	1131.2
80°	1632.5	1722.5	2631.9	7854.0	16003.7	16341.1	5492.0	1140.8	1066.9	806.6
82.5°	514.2	533.5	1227.6	3300.4	6642.5	6796.8	1590.7	645.9	729.5	533.5
85°	147.8	151.0	546.3	1230.8	1642.1	1674.3	446.7	250.7	417.8	331.0
87.5°	16.1	51.4	205.7	205.7	144.6	141.4	48.2	54.6	118.9	41.8
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°
6356.5	0°	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5	6356.5
6385.4	2.5°	6369.3	6372.6	6330.8	6260.1	6183.0	6118.7	6038.3	5974.1	5929.1	5916.2
6443.3	5°	6414.3	6391.8	6272.9	6057.6	5800.5	5578.8	5331.4	5135.3	5006.8	4952.2
6504.3	7.5°	6481.8	6417.6	6157.3	5733.1	5241.4	4804.3	4360.9	4017.0	3798.5	3689.2
6562.2	10°	6539.7	6411.1	5964.4	5263.9	4511.9	3849.9	3252.2	2837.6	2606.2	2497.0
6629.7	12.5°	6594.3	6407.9	5713.8	4707.9	3689.2	2879.4	2323.4	2117.8	2053.5	2031.0
6738.9	15°	6697.1	6417.6	5398.8	4071.6	2869.7	2175.6	1973.1	1969.9	1982.8	1976.4
6906.0	17.5°	6838.5	6427.2	5042.1	3396.8	2214.2	1918.5	1908.9	1937.8	1957.1	1947.4
7114.9	20°	7021.7	6465.8	4662.9	2728.3	1902.4	1854.2	1876.7	1902.4	1918.5	1902.4
7394.5	22.5°	7278.8	6533.2	4248.4	2191.7	1802.8	1815.7	1835.0	1863.9	1880.0	1857.5
7751.2	25°	7593.7	6639.3	3840.2	1905.7	1754.6	1770.7	1799.6	1831.8	1851.0	1828.5
8201.1	27.5°	8001.9	6809.6	3464.3	1841.4	1706.4	1716.1	1757.8	1806.0	1831.8	1802.8
8840.6	30°	8593.2	7089.2	3139.7	1870.3	1677.5	1655.0	1712.8	1780.3	1809.3	1783.5
9711.5	32.5°	9377.3	7484.5	2940.4	1915.3	1664.6	1584.3	1638.9	1725.7	1773.9	1757.8
10849.1	35°	10405.6	8085.4	2863.3	1966.7	1655.0	1510.4	1549.0	1642.1	1725.7	1741.8
12282.4	37.5°	11652.5	8920.9	2885.8	1989.2	1626.1	1449.3	1468.6	1549.0	1658.2	1709.6
13895.6	40°	13069.7	9894.7	3014.4	1966.7	1593.9	1397.9	1401.1	1462.2	1558.6	1635.7
15630.9	42.5°	14531.9	11032.3	3252.2	1883.2	1565.0	1352.9	1343.3	1385.1	1449.3	1504.0
17363.1	45°	15923.4	12202.0	3486.8	1767.5	1529.7	1307.9	1285.4	1301.5	1314.4	1336.9
19050.2	47.5°	17138.1	13024.7	3419.3	1661.4	1481.5	1256.5	1218.0	1211.5	1173.0	1169.7
20557.4	50°	17976.9	13204.7	3036.8	1555.4	1410.8	1198.7	1137.6	1099.1	1031.6	999.4
21685.4	52.5°	18243.6	12494.5	2480.9	1449.3	1295.1	1121.5	1034.8	973.7	890.2	861.2
22334.5	55°	17890.1	11103.0	1982.8	1320.8	1134.4	1018.7	922.3	842.0	774.5	739.1
22405.2	57.5°	17025.6	9332.3	1568.2	1169.7	964.1	903.0	806.6	726.3	668.4	633.1
21621.1	60°	15592.4	7410.6	1240.4	989.8	822.7	777.7	678.1	626.7	575.2	533.5
19596.5	62.5°	13416.8	5289.6	973.7	784.1	687.7	636.3	578.4	539.9	478.8	421.0
15955.5	65°	10469.9	3236.1	752.0	575.2	552.7	527.0	491.7	456.3	382.4	324.6
10408.8	67.5°	6603.9	1532.9	536.7	433.8	437.0	424.2	408.1	379.2	324.6	273.2
4662.9	70°	2908.3	742.3	353.5	331.0	324.6	324.6	337.4	327.8	276.4	228.2
1619.7	72.5°	989.8	398.5	263.5	250.7	234.6	231.4	282.8	273.2	221.7	176.7
806.6	75°	517.4	266.7	192.8	180.0	141.4	170.3	225.0	212.1	157.5	115.7
533.5	77.5°	337.4	189.6	131.8	115.7	80.3	112.5	167.1	147.8	93.2	57.8
350.3	80°	212.1	125.3	77.1	54.6	38.6	61.1	90.0	64.3	35.3	12.9
205.7	82.5°	112.5	64.3	28.9	19.3	16.1	19.3	22.5	16.1	6.4	0.0
106.0	85°	45.0	22.5	9.6	6.4	3.2	0.0	6.4	3.2	0.0	0.0
19.3	87.5°	16.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
6356.5
5938.7
4971.4
3705.3
2500.2
2024.6
1973.1
1944.2
1899.2
1854.2
1825.3
1802.8
1780.3
1757.8
1741.8
1722.5
1661.4
1526.5
1349.7
1166.5
1002.6
858.0
739.1
626.7
523.8
411.3
314.9
266.7
218.5
167.1
106.0
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