

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: P957680

Luminaire Tested: **GALN-SB9D-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49667 lumens
Efficiency: N/A
Efficacy: 75.5 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

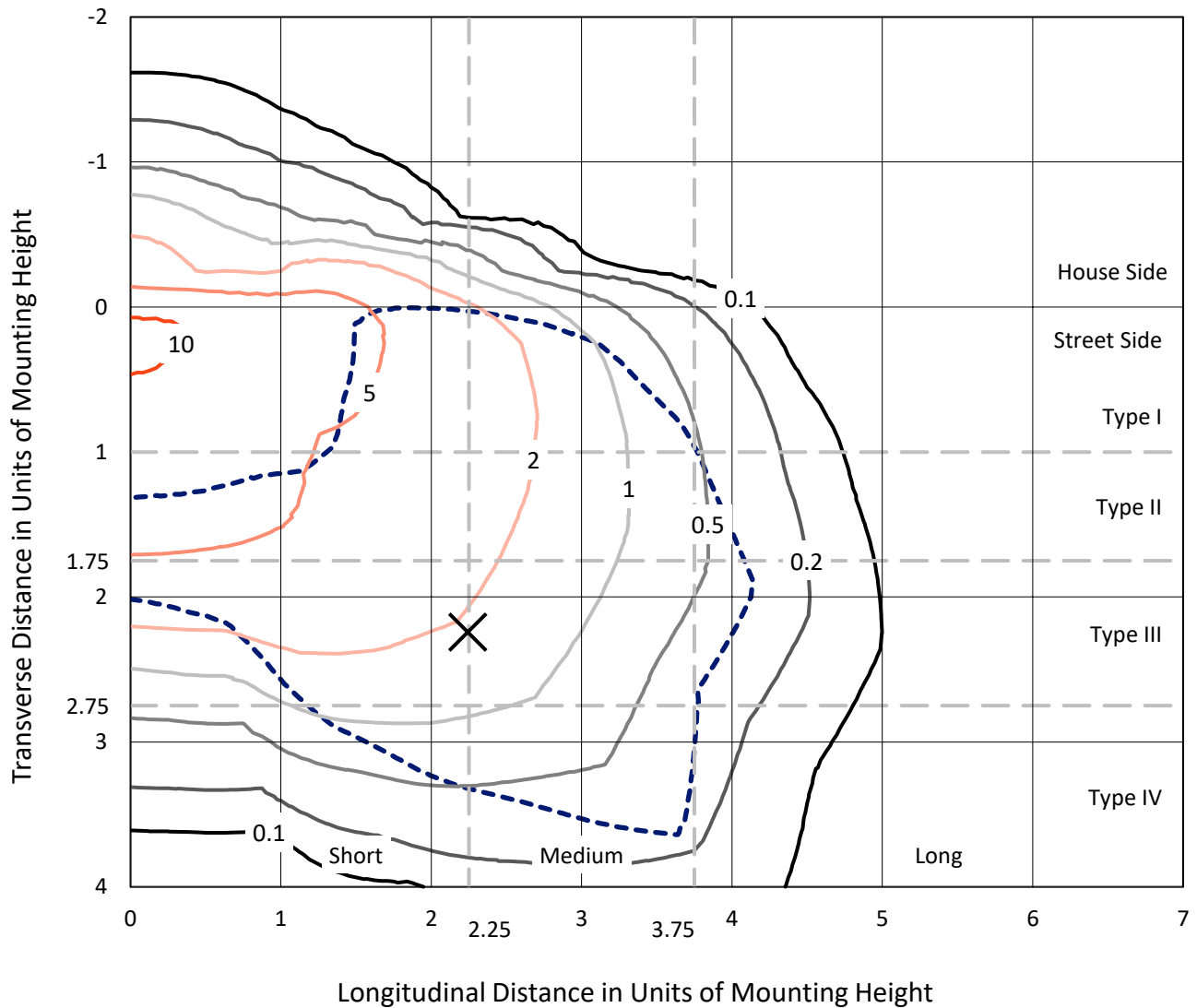
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

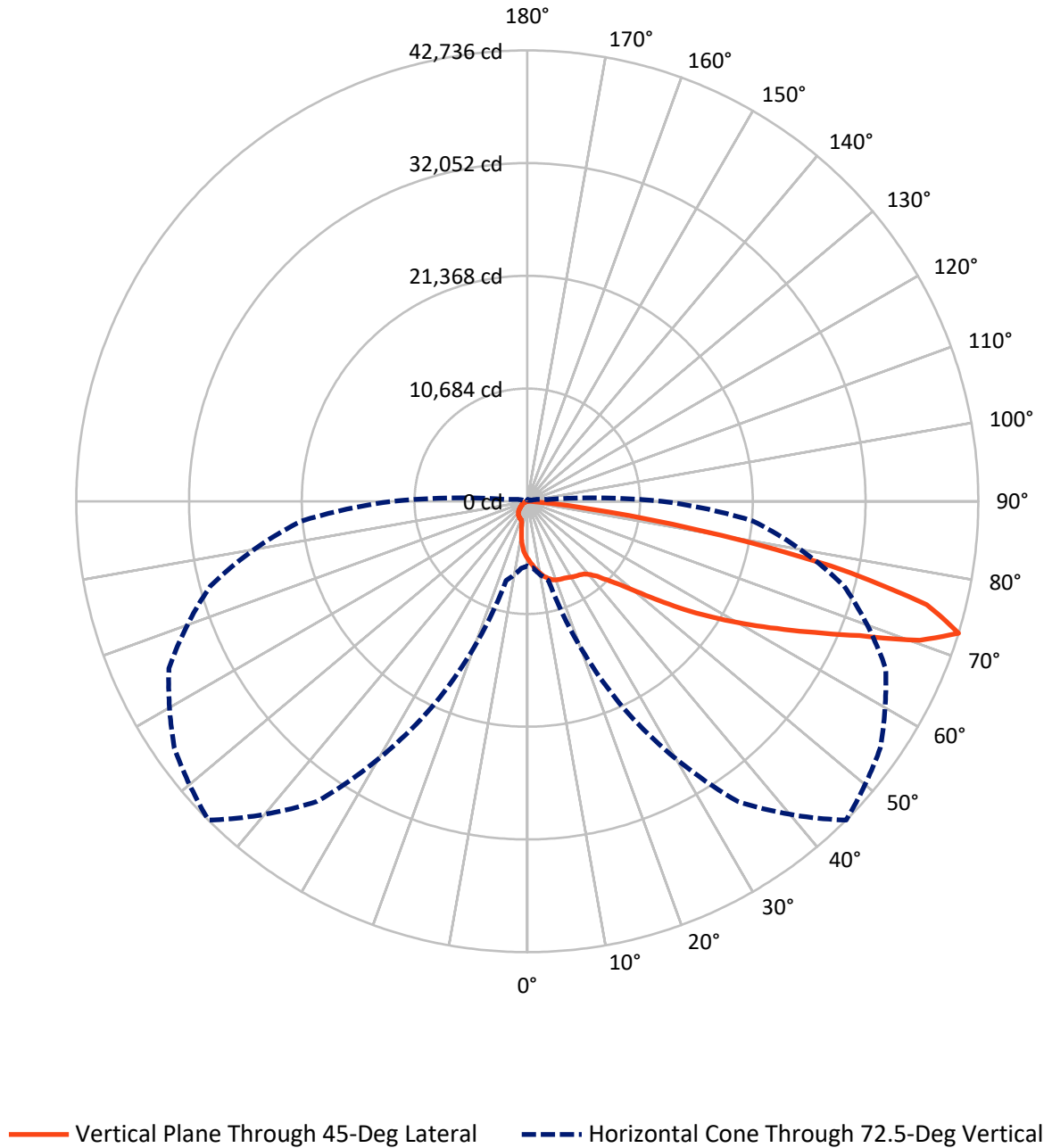
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	5218.6	0.0	5218.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	44448.4	0.0	44448.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	49667.0	0.0	49667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.7	1.0
10°-20°	1498.3	3.0
20°-30°	2460.4	5.0
30°-40°	3489.5	7.0
40°-50°	5767.7	11.6
50°-60°	10361.1	20.9
60°-70°	14387.0	29.0
70°-80°	10435.8	21.0
80°-90°	754.5	1.5
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°	49667.0	100.0
0°-180°	49667.0	100.0

Coefficient of Utilization



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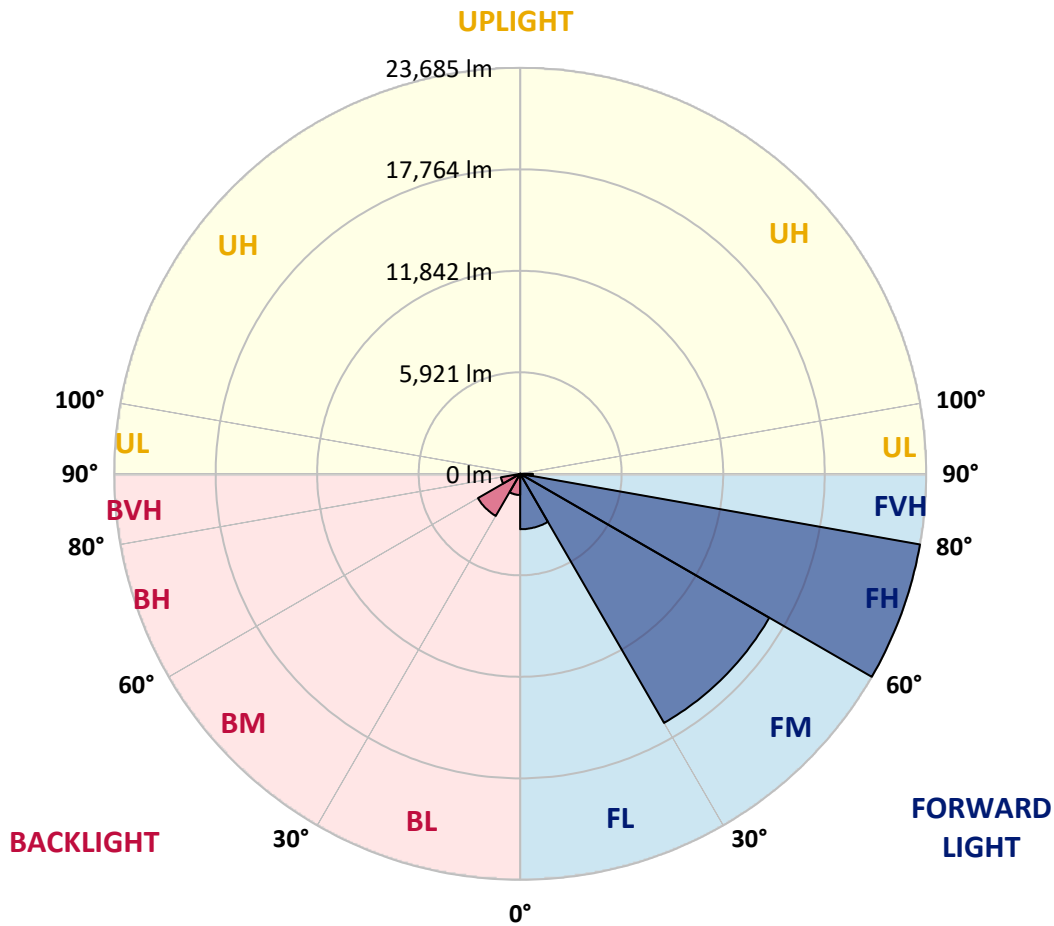
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3235.3	6.5			
FM (30°-60°)	16780.1	33.8			
FH (60°-80°)	23684.8	47.7			G5
FVH (80°-90°)	748.1	1.5			G4/750
BL (0°-30°)	1236.1	2.5	B3/2500		
BM (30°-60°)	2838.2	5.7	B3/5000		
BH (60°-80°)	1138.0	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.3	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°	35°	45°	46°	55°	65°	75°
0°	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1
2.5°	5942.9	5953.0	5946.3	5905.6	5837.8	5800.5	5780.1	5712.3	5668.3	5590.3
5°	6488.7	6529.4	6505.6	6424.3	6295.4	6203.9	6176.8	6037.8	5912.4	5766.6
7.5°	7068.4	7088.7	7044.6	6939.6	6766.7	6610.7	6587.0	6393.7	6193.7	5970.0
10°	7570.1	7593.8	7526.0	7373.5	7176.9	6983.6	6949.7	6736.1	6498.8	6224.2
12.5°	7990.5	8014.2	7926.1	7743.0	7526.0	7326.0	7292.1	7068.4	6807.3	6502.2
15°	8309.2	8353.2	8234.6	8037.9	7804.0	7604.0	7587.1	7366.7	7112.4	6773.4
17.5°	8495.6	8539.7	8427.8	8190.5	7990.5	7821.0	7800.6	7617.6	7380.3	7054.8
20°	8526.1	8566.8	8448.2	8241.4	8075.2	7939.6	7929.5	7797.3	7624.4	7312.5
22.5°	8434.6	8485.4	8377.0	8210.8	8095.6	8024.4	8010.8	7936.2	7837.9	7573.5
25°	8339.7	8380.4	8299.0	8153.2	8092.2	8085.4	8095.6	8082.0	8061.7	7837.9
27.5°	8332.9	8377.0	8285.4	8146.4	8112.5	8183.7	8193.9	8258.3	8275.3	8078.6
30°	8390.5	8421.0	8332.9	8187.1	8170.2	8332.9	8336.3	8451.5	8478.7	8282.0
32.5°	8516.0	8549.9	8461.7	8248.1	8224.4	8451.5	8461.7	8614.3	8658.3	8499.0
35°	8810.9	8851.6	8749.9	8417.6	8332.9	8563.4	8593.9	8773.6	8861.7	8729.5
37.5°	9546.5	9427.9	9288.9	8760.0	8580.4	8739.7	8790.6	9000.7	9156.7	9004.1
40°	11373.8	11000.9	10567.0	9343.1	9014.3	9116.0	9156.7	9366.9	9580.4	9431.3
42.5°	14116.4	13675.7	12977.3	10685.6	9668.6	9719.4	9750.0	9933.0	10234.7	10116.1
45°	16560.7	16401.3	15689.4	12977.3	10892.4	10641.6	10678.8	10773.8	11217.9	11173.8
47.5°	18438.8	18347.3	17798.1	15608.1	12960.4	11770.5	11875.6	11919.6	12560.4	12716.3
50°	19883.0	19849.1	19357.5	17947.2	15662.3	13435.0	13472.3	13377.4	14336.8	14723.2
52.5°	21245.8	21361.1	20998.3	20120.3	18547.3	15614.8	15608.1	15160.6	16455.6	17038.7
55°	22476.4	22517.1	22554.4	22337.4	21449.2	18096.4	18032.0	17299.7	18913.4	19516.9
57.5°	23632.5	23649.4	23981.6	24425.7	24469.8	20761.0	20642.4	19764.3	21598.4	22028.9
60°	24408.8	24486.8	25188.5	26422.5	26961.5	23510.4	23446.0	22551.0	24330.8	24530.8
62.5°	23290.1	23764.7	25534.3	27982.0	29314.3	26558.1	26527.6	25686.9	27205.6	27042.9
65°	18852.4	19655.9	22768.0	29036.3	31622.9	29961.8	30005.9	29110.9	30158.4	29629.6
67.5°	13187.5	14035.1	17716.7	29121.0	34202.8	33958.7	34213.0	32809.5	33294.3	32107.7
70°	9119.4	9556.7	11953.5	27297.2	36213.1	39464.3	39457.5	37352.2	36413.2	33236.6
72.5°	6132.7	6359.8	7763.4	21656.0	34735.1	42735.7	42539.1	40823.7	37464.1	31083.9
75°	2586.7	2752.8	3593.5	12170.5	27480.2	39098.1	38565.9	36077.5	33287.5	24476.6
77.5°	820.4	891.6	1417.1	4356.3	15136.8	29388.9	28826.1	22530.7	22310.3	12279.0
80°	389.9	454.3	796.7	1749.3	5956.4	15984.4	15906.4	10221.2	9597.4	3315.5
82.5°	169.5	200.0	440.7	935.7	2664.6	5702.2	5817.4	3478.3	2878.2	1257.7
85°	54.2	71.2	203.4	430.5	1125.5	1417.1	1400.1	827.2	1159.4	684.8
87.5°	0.0	0.0	67.8	98.3	115.3	81.4	91.5	71.2	322.1	189.8
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°
5441.1	0°	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1	5441.1
5508.9	2.5°	5468.2	5414.0	5319.1	5230.9	5153.0	5075.0	5027.5	4959.7	4952.9	4952.9
5597.1	5°	5505.5	5417.4	5247.9	5068.2	4861.4	4664.8	4468.2	4278.3	4217.3	4173.2
5739.5	7.5°	5614.0	5475.0	5207.2	4864.8	4471.6	4041.0	3739.3	3413.8	3288.4	3220.6
5929.3	10°	5770.0	5580.1	5173.3	4573.3	3935.9	3349.4	2918.9	2566.3	2430.7	2373.1
6136.1	12.5°	5942.9	5708.9	5112.3	4210.5	3349.4	2647.7	2227.3	2064.6	2044.2	2044.2
6383.6	15°	6149.7	5864.9	5007.2	3783.4	2735.8	2095.1	1945.9	1952.7	1973.0	1986.6
6624.3	17.5°	6363.2	6031.0	4841.1	3305.4	2193.4	1884.9	1888.3	1898.5	1915.4	1929.0
6885.3	20°	6593.8	6197.1	4620.7	2796.8	1881.5	1823.9	1834.0	1844.2	1857.8	1864.6
7129.4	22.5°	6841.2	6353.1	4359.7	2298.5	1776.4	1773.0	1776.4	1786.6	1803.5	1803.5
7414.2	25°	7105.7	6526.0	4061.4	1935.8	1722.2	1722.2	1729.0	1735.7	1749.3	1749.3
7688.8	27.5°	7376.9	6685.3	3746.1	1745.9	1674.7	1671.3	1671.3	1681.5	1688.3	1691.7
7960.0	30°	7675.2	6871.8	3430.8	1705.2	1637.4	1620.5	1610.3	1617.1	1623.9	1627.3
8244.7	32.5°	7980.3	7051.4	3149.4	1722.2	1600.1	1569.6	1535.7	1528.9	1528.9	1542.5
8539.7	35°	8319.3	7248.1	2932.4	1779.8	1579.8	1495.0	1440.8	1410.3	1413.7	1434.0
8892.3	37.5°	8726.1	7485.4	2773.1	1830.7	1566.2	1410.3	1322.1	1284.9	1261.1	1284.9
9377.0	40°	9258.4	7834.5	2657.8	1871.3	1549.3	1312.0	1193.3	1132.3	1088.2	1101.8
10129.6	42.5°	10041.5	8383.7	2613.8	1874.7	1512.0	1196.7	1061.1	979.7	915.3	918.7
11261.9	45°	11139.9	9251.6	2840.9	1830.7	1430.6	1071.3	922.1	813.6	772.9	762.8
12953.6	47.5°	12645.1	10516.1	3366.4	1739.1	1312.0	949.2	786.5	695.0	664.5	647.5
15174.1	50°	14662.2	12140.0	3949.5	1637.4	1193.3	834.0	674.6	617.0	596.7	579.7
17808.2	52.5°	17001.4	13787.6	4427.5	1535.7	1074.7	732.3	603.4	569.5	552.6	539.0
20350.8	55°	19147.3	14923.3	4400.4	1427.2	959.4	650.9	552.6	532.2	511.9	498.3
22540.8	57.5°	20483.0	15082.6	3627.4	1308.6	827.2	586.5	505.1	491.6	467.8	450.9
24435.9	60°	21096.7	14174.0	2542.6	1152.6	695.0	525.5	454.3	447.5	417.0	393.3
26229.3	62.5°	21208.5	12485.8	1695.1	959.4	579.7	467.8	403.4	393.3	352.6	311.9
27687.0	65°	20754.2	10072.0	1173.0	749.2	495.0	406.8	345.8	325.5	281.4	240.7
28032.8	67.5°	19316.8	7071.8	817.0	539.0	420.4	322.1	274.6	267.8	233.9	200.0
26270.0	70°	16682.7	4030.8	545.8	403.4	332.2	220.4	217.0	223.7	189.8	162.7
21462.8	72.5°	12790.9	1844.2	339.0	294.9	227.1	149.2	172.9	176.3	145.8	122.0
13390.9	75°	7529.4	789.9	213.6	189.8	115.3	98.3	125.4	128.8	98.3	78.0
4895.3	77.5°	2562.9	298.3	135.6	111.9	57.6	54.2	81.4	81.4	54.2	30.5
983.1	80°	583.1	111.9	67.8	44.1	27.1	23.7	27.1	23.7	13.6	3.4
301.7	82.5°	166.1	44.1	27.1	17.0	10.2	10.2	3.4	0.0	0.0	0.0
105.1	85°	47.5	20.3	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0
37.3	87.5°	20.3	3.4	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>
5441.1
4969.9
4193.6
3230.8
2373.1
2044.2
1986.6
1929.0
1868.0
1810.3
1752.7
1695.1
1634.0
1552.7
1444.2
1278.1
1095.0
905.2
749.2
637.3
576.3
535.6
491.6
447.5
386.5
291.5
227.1
189.8
149.2
108.5
67.8
23.7
0.0
0.0
0.0
0.0
0.0

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