

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: P944148

Luminaire Tested: **GALN-SB8D-950-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944148  
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-SB8D-950-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

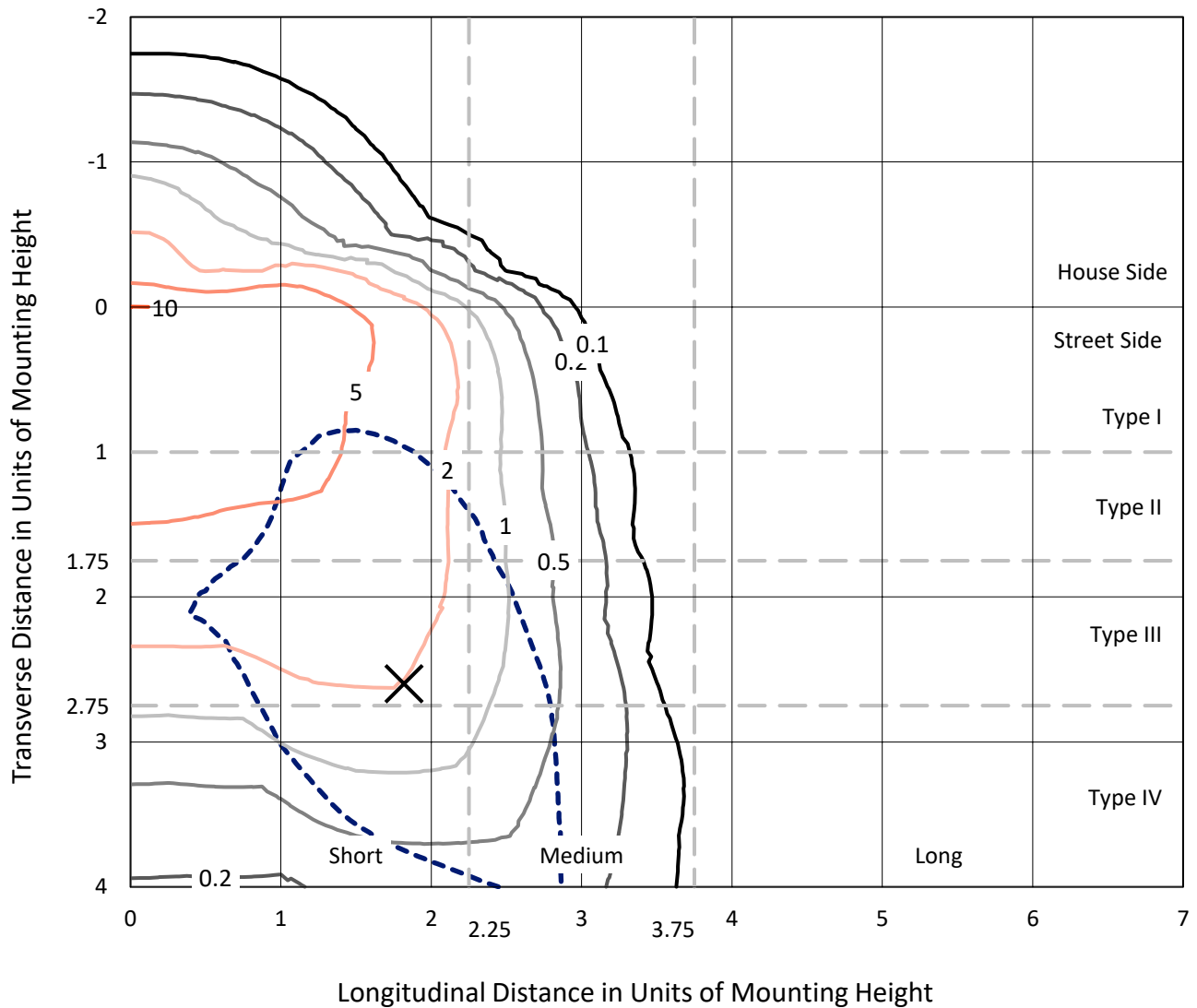
Lumens per Lamp: N/A  
Luminaire Lumens: 43340 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

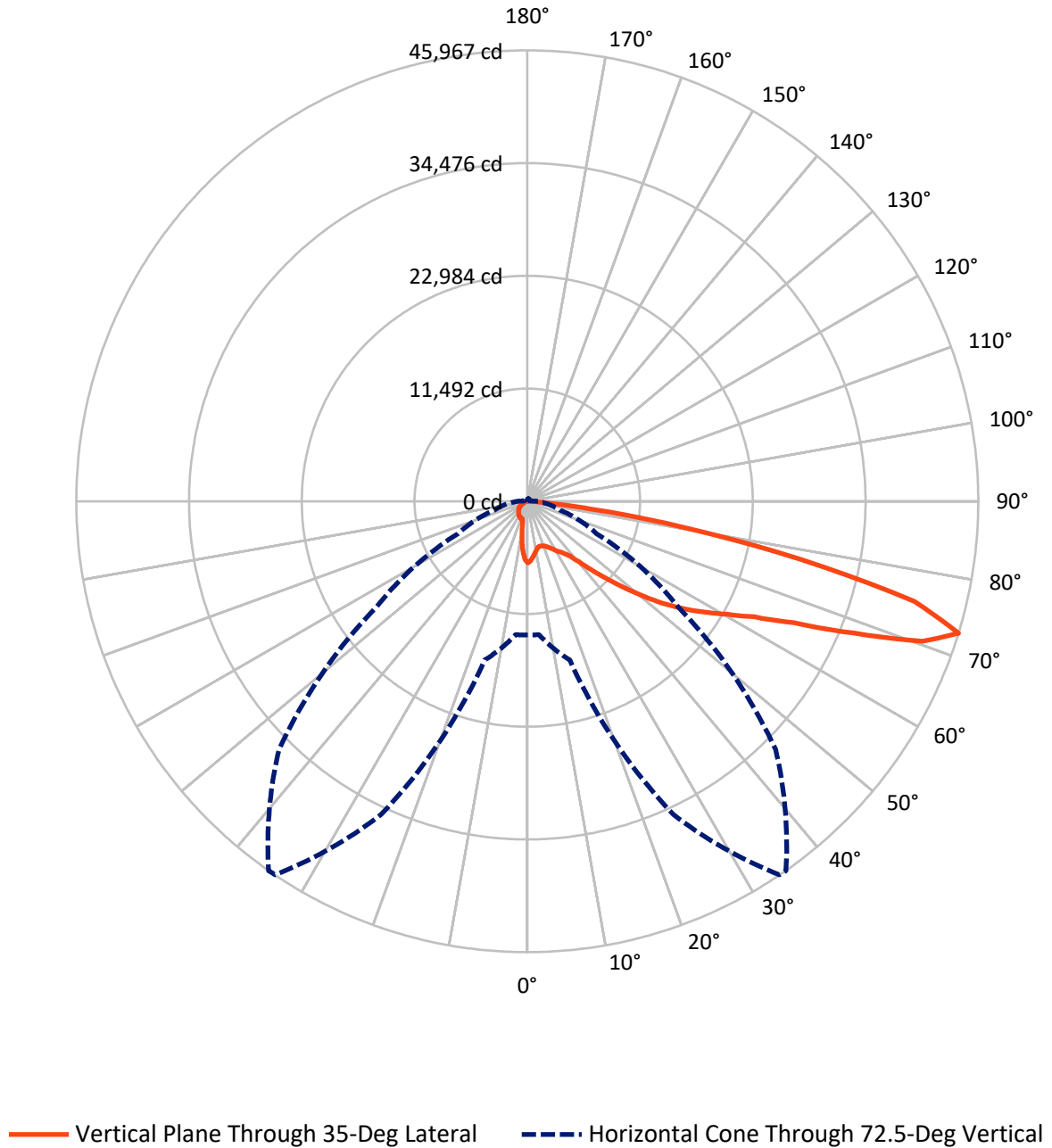
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4877.7	0.0	4877.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	38462.3	0.0	38462.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	43340.0	0.0	43340.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.2	1.2
10°-20°	1207.5	2.8
20°-30°	1961.6	4.5
30°-40°	3272.9	7.6
40°-50°	6192.3	14.3
50°-60°	9839.6	22.7
60°-70°	12172.2	28.1
70°-80°	7566.3	17.5
80°-90°	611.5	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°	43340.0	100.0
0°-180°	43340.0	100.0

**Coefficient of Utilization**



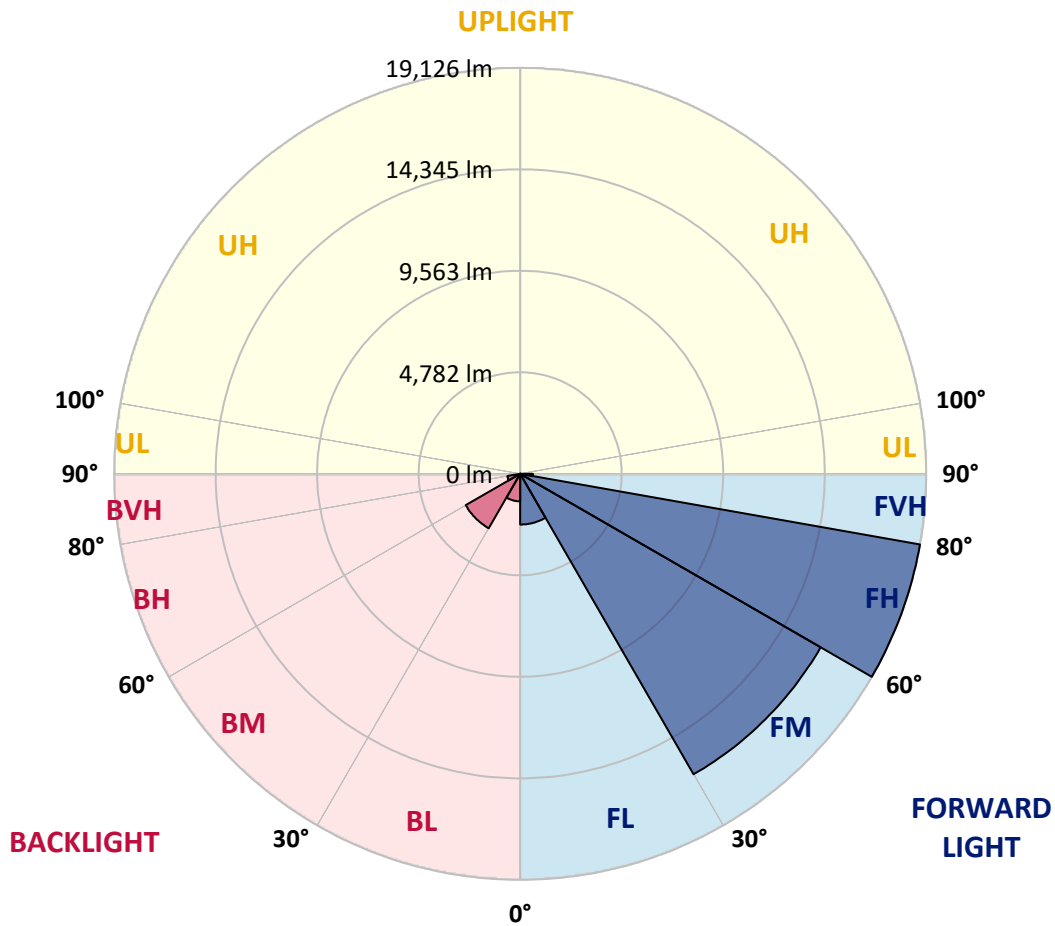
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2389.1	5.5			
FM (30°-60°)	16343.5	37.7			
FH (60°-80°)	19126.5	44.1			G5
FVH (80°-90°)	603.2	1.4			G4/750
BL (0°-30°)	1296.1	3.0	B3/2500		
BM (30°-60°)	2961.2	6.8	B3/5000		
BH (60°-80°)	612.1	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.3	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°	34°	35°	45°	55°	65°	75°
0°	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4
2.5°	6002.0	6052.8	6062.3	6078.2	6078.2	6097.2	6129.0	6173.4	6246.5	6284.6
5°	5532.0	5570.1	5617.7	5655.8	5728.9	5738.4	5862.2	5982.9	6151.2	6278.2
7.5°	5058.8	5103.3	5166.8	5258.9	5354.1	5382.7	5570.1	5773.3	6040.1	6278.2
10°	4725.4	4728.5	4785.7	4877.8	5030.2	5065.1	5293.8	5582.8	5916.2	6240.1
12.5°	4538.0	4560.2	4585.6	4655.5	4801.6	4823.8	5068.3	5408.1	5792.4	6217.9
15°	4538.0	4553.9	4569.7	4604.7	4722.2	4741.2	4957.2	5297.0	5728.9	6227.4
17.5°	4585.6	4611.0	4598.3	4639.6	4763.5	4776.2	4966.7	5265.2	5725.7	6287.8
20°	4699.9	4719.0	4693.6	4719.0	4842.9	4868.3	5065.1	5325.6	5779.7	6392.6
22.5°	4881.0	4890.5	4830.2	4849.2	4976.2	5008.0	5236.6	5497.0	5909.9	6560.9
25°	5109.6	5128.7	5036.6	5058.8	5179.5	5217.6	5481.2	5754.3	6116.3	6792.7
27.5°	5373.2	5382.7	5303.3	5300.1	5455.8	5509.7	5776.5	6071.8	6392.6	7084.9
30°	5674.9	5703.5	5627.2	5614.5	5811.4	5855.9	6119.5	6462.4	6799.0	7523.1
32.5°	5913.0	5935.3	5890.8	5922.6	6122.6	6157.6	6535.5	7015.0	7437.4	8145.5
35°	6256.0	6268.7	6167.1	6224.3	6452.9	6541.8	7103.9	7789.8	8240.8	8926.7
37.5°	7497.7	7497.7	7065.8	6783.2	7002.3	7081.7	7881.9	8764.8	9231.6	9974.7
40°	9215.7	9187.1	8555.2	7977.2	7948.6	8104.2	8990.2	9993.7	10511.4	11232.2
42.5°	11048.1	11003.6	10143.0	9571.4	9476.1	9530.1	10270.0	11508.5	12035.7	12766.1
45°	12674.0	12661.3	11873.7	11105.2	10933.7	11105.2	11867.4	13280.5	13658.4	14426.9
47.5°	14036.3	14036.3	13461.5	12959.8	12870.9	12972.5	14030.0	15246.3	15211.3	16195.8
50°	15605.1	15592.4	15046.2	14830.2	14922.3	15065.2	16519.7	17316.8	16818.2	17932.8
52.5°	16703.9	16780.1	16592.7	16557.8	17027.8	17275.5	19047.5	19342.8	18256.8	19581.0
55°	17574.0	17662.9	17878.9	18123.4	19028.4	19352.4	21495.9	21264.1	19460.3	21010.0
57.5°	18806.1	18679.1	19012.6	19495.3	20959.2	21349.8	23868.1	23077.4	20428.9	22169.2
60°	20301.9	20320.9	20378.1	20987.8	22886.8	23388.6	26205.4	24792.2	21051.3	22880.5
62.5°	22099.3	22127.9	22245.4	23182.2	25475.0	25948.2	28695.1	26195.9	21337.1	22680.4
65°	21975.4	22096.1	23407.7	26611.9	29409.6	29876.4	31600.8	27180.3	20905.2	20851.3
67.5°	20019.2	20216.1	22410.5	30708.5	35341.7	35862.5	35113.1	27374.0	19041.1	16214.8
70°	17453.3	17523.2	20162.1	34392.2	42210.6	42737.8	38257.0	25243.2	14449.2	9044.2
72.5°	13629.9	13645.7	16742.0	35246.4	45938.8	45967.4	35789.5	18739.5	7770.8	3474.2
75°	9736.5	9641.2	11213.2	28584.0	40416.4	40740.3	26831.0	8790.2	2969.2	1641.8
77.5°	5220.8	5325.6	6344.9	16951.6	27920.2	28472.8	14639.7	2534.2	1511.6	1117.8
80°	1613.2	1702.1	2600.9	7761.3	15814.7	16148.1	5427.2	1127.4	1054.3	797.1
82.5°	508.1	527.2	1213.1	3261.4	6564.1	6716.5	1571.9	638.3	720.9	527.2
85°	146.1	149.3	539.9	1216.3	1622.8	1654.5	441.4	247.7	412.8	327.1
87.5°	15.9	50.8	203.2	203.2	142.9	139.7	47.6	54.0	117.5	41.3
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°
6281.4	0°	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4	6281.4
6310.0	2.5°	6294.1	6297.3	6256.0	6186.1	6109.9	6046.4	5967.0	5903.5	5859.1	5846.4
6367.2	5°	6338.6	6316.4	6198.9	5986.1	5732.0	5512.9	5268.4	5074.7	4947.6	4893.7
6427.5	7.5°	6405.3	6341.8	6084.5	5665.3	5179.5	4747.6	4309.3	3969.6	3753.6	3645.6
6484.7	10°	6462.4	6335.4	5894.0	5201.7	4458.6	3804.4	3213.7	2804.1	2575.4	2467.5
6551.3	12.5°	6516.4	6332.2	5646.3	4652.3	3645.6	2845.4	2296.0	2092.7	2029.2	2007.0
6659.3	15°	6618.0	6341.8	5335.1	4023.5	2835.8	2149.9	1949.8	1946.7	1959.4	1953.0
6824.5	17.5°	6757.8	6351.3	4982.6	3356.7	2188.0	1895.9	1886.3	1914.9	1934.0	1924.4
7030.9	20°	6938.8	6389.4	4607.9	2696.1	1880.0	1832.3	1854.6	1880.0	1895.9	1880.0
7307.2	22.5°	7192.8	6456.1	4198.2	2165.8	1781.5	1794.2	1813.3	1841.9	1857.8	1835.5
7659.6	25°	7504.0	6560.9	3794.9	1883.2	1733.9	1749.8	1778.4	1810.1	1829.2	1806.9
8104.2	27.5°	7907.3	6729.2	3423.3	1819.6	1686.3	1695.8	1737.1	1784.7	1810.1	1781.5
8736.2	30°	8491.7	7005.5	3102.6	1848.2	1657.7	1635.5	1692.6	1759.3	1787.9	1762.5
9596.8	32.5°	9266.5	7396.1	2905.7	1892.7	1645.0	1565.6	1619.6	1705.3	1753.0	1737.1
10721.0	35°	10282.7	7989.9	2829.5	1943.5	1635.5	1492.6	1530.7	1622.8	1705.3	1721.2
12137.3	37.5°	11514.9	8815.6	2851.7	1965.7	1606.9	1432.2	1451.3	1530.7	1638.6	1689.4
13731.5	40°	12915.3	9777.8	2978.8	1943.5	1575.1	1381.4	1384.6	1444.9	1540.2	1616.4
15446.3	42.5°	14360.3	10902.0	3213.7	1860.9	1546.5	1336.9	1327.4	1368.7	1432.2	1486.2
17158.0	45°	15735.3	12057.9	3445.6	1746.6	1511.6	1292.5	1270.3	1286.1	1298.8	1321.1
18825.2	47.5°	16935.7	12870.9	3378.9	1641.8	1464.0	1241.7	1203.6	1197.2	1159.1	1155.9
20314.6	50°	17764.5	13048.7	3001.0	1537.0	1394.1	1184.5	1124.2	1086.1	1019.4	987.6
21429.2	52.5°	18028.1	12346.9	2451.6	1432.2	1279.8	1108.3	1022.6	962.2	879.7	851.1
22070.7	55°	17678.8	10971.8	1959.4	1305.2	1121.0	1006.7	911.4	832.0	765.3	730.4
22140.6	57.5°	16824.5	9222.1	1549.7	1155.9	952.7	892.4	797.1	717.7	660.5	625.6
21365.7	60°	15408.2	7323.0	1225.8	978.1	813.0	768.5	670.1	619.3	568.4	527.2
19365.1	62.5°	13258.3	5227.1	962.2	774.9	679.6	628.8	571.6	533.5	473.2	416.0
15767.1	65°	10346.2	3197.9	743.1	568.4	546.2	520.8	485.9	450.9	377.9	320.7
10285.9	67.5°	6525.9	1514.8	530.3	428.7	431.9	419.2	403.3	374.7	320.7	269.9
4607.9	70°	2874.0	733.6	349.3	327.1	320.7	320.7	333.4	323.9	273.1	225.5
1600.5	72.5°	978.1	393.8	260.4	247.7	231.8	228.6	279.5	269.9	219.1	174.7
797.1	75°	511.3	263.6	190.5	177.8	139.7	168.3	222.3	209.6	155.6	114.3
527.2	77.5°	333.4	187.4	130.2	114.3	79.4	111.1	165.1	146.1	92.1	57.2
346.1	80°	209.6	123.9	76.2	54.0	38.1	60.3	88.9	63.5	34.9	12.7
203.2	82.5°	111.1	63.5	28.6	19.1	15.9	19.1	22.2	15.9	6.4	0.0
104.8	85°	44.5	22.2	9.5	6.4	3.2	0.0	6.4	3.2	0.0	0.0
19.1	87.5°	15.9	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>
6281.4
5868.6
4912.7
3661.5
2470.6
2000.7
1949.8
1921.3
1876.8
1832.3
1803.8
1781.5
1759.3
1737.1
1721.2
1702.1
1641.8
1508.4
1333.8
1152.8
990.8
847.9
730.4
619.3
517.6
406.5
311.2
263.6
215.9
165.1
104.8
50.8
9.5
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