

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: P944058

Luminaire Tested: **GALN-SB8D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944058  
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-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

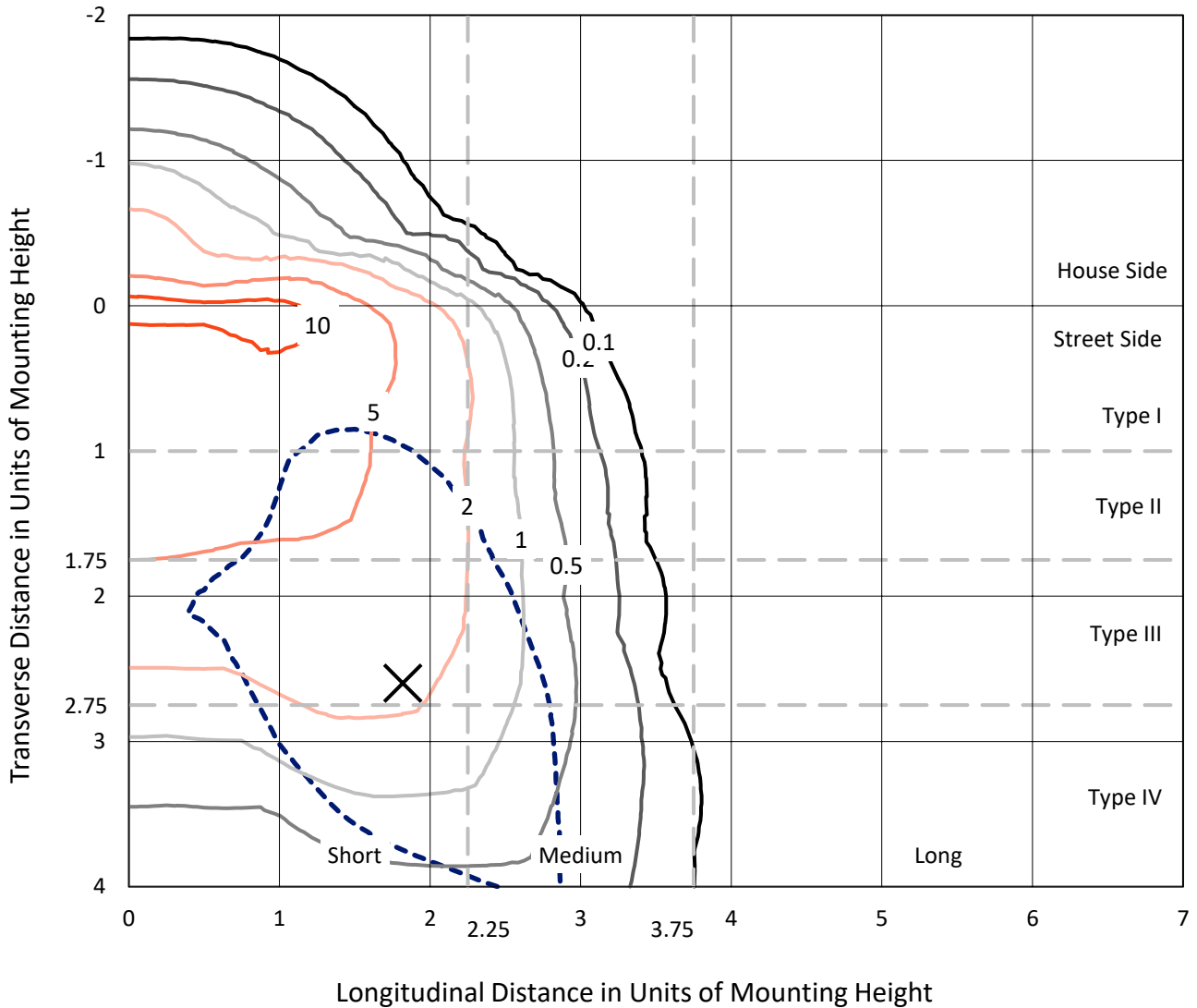
Lumens per Lamp: N/A  
Luminaire Lumens: 54175 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

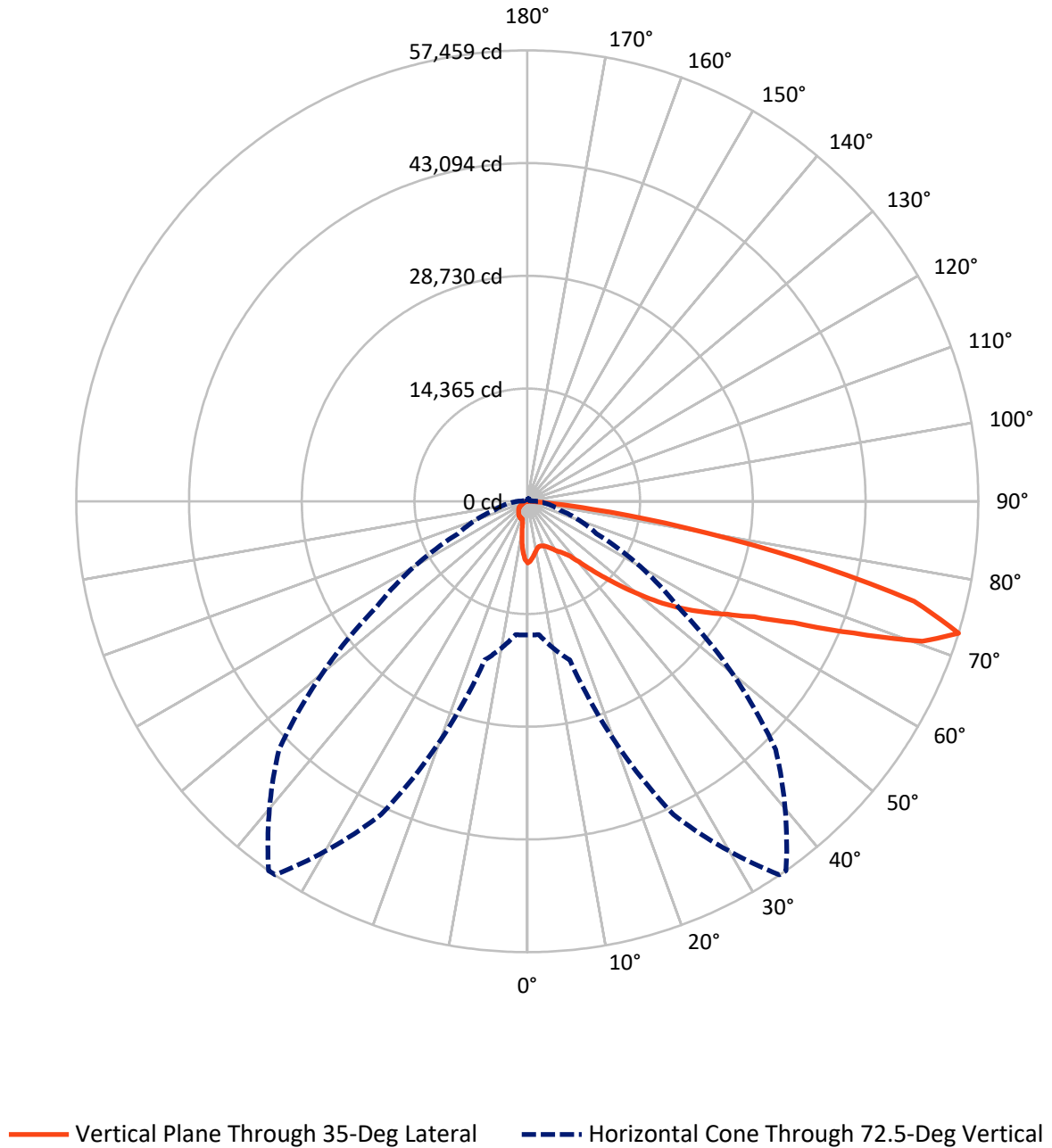
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	6097.1	0.0	6097.1
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	48077.9	0.0	48077.9
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	54175.0	0.0	54175.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.2	1.2
10°-20°	1509.4	2.8
20°-30°	2452.0	4.5
30°-40°	4091.1	7.6
40°-50°	7740.4	14.3
50°-60°	12299.4	22.7
60°-70°	15215.3	28.1
70°-80°	9457.9	17.5
80°-90°	764.4	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°	54175.0	100.0
0°-180°	54175.0	100.0

**Coefficient of Utilization**



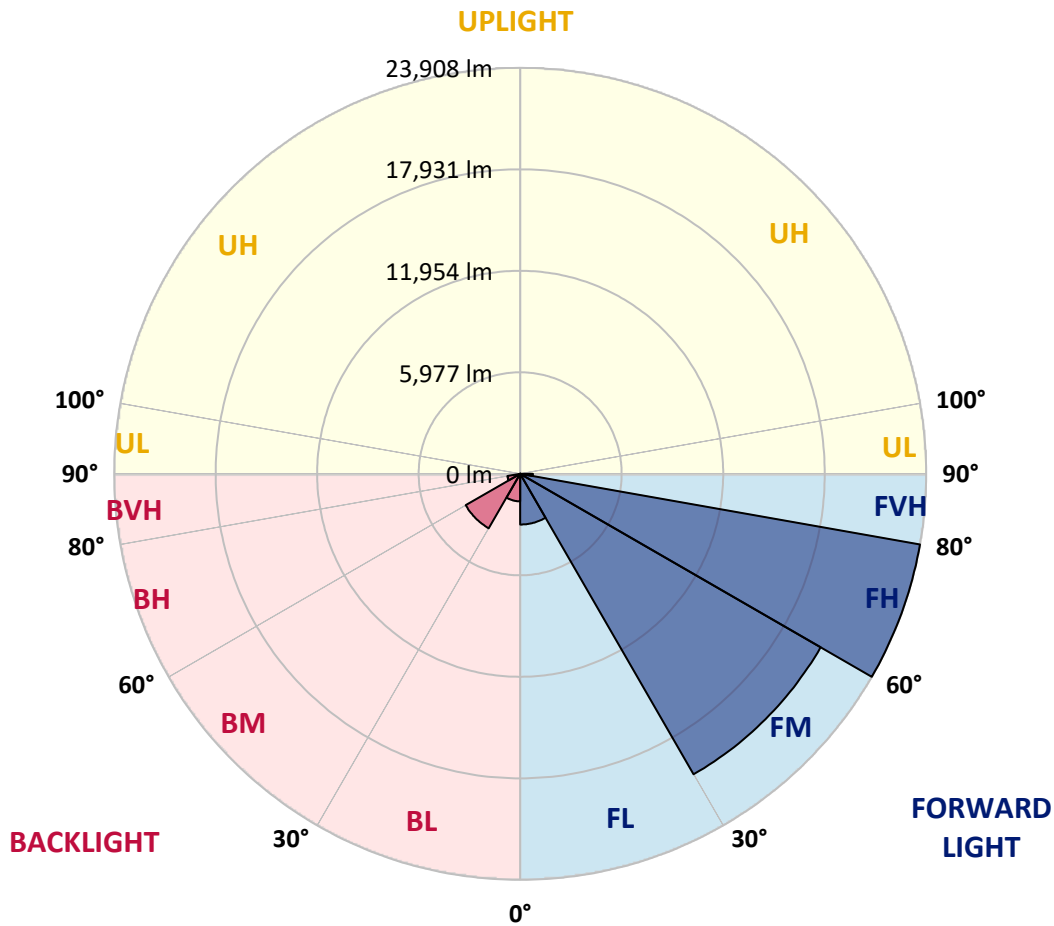
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2986.4	5.5			
FM (30°-60°)	20429.4	37.7			
FH (60°-80°)	23908.1	44.1			G5
FVH (80°-90°)	754.0	1.4			G5
BL (0°-30°)	1620.1	3.0	B3/2500		
BM (30°-60°)	3701.5	6.8	B3/5000		
BH (60°-80°)	765.1	1.4	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.0			G1/100
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°	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8
2.5°	7502.5	7566.0	7577.9	7597.7	7597.7	7621.5	7661.2	7716.8	7808.1	7855.7
5°	6915.0	6962.6	7022.1	7069.8	7161.1	7173.0	7327.8	7478.6	7689.0	7847.8
7.5°	6323.5	6379.1	6458.5	6573.6	6692.7	6728.4	6962.6	7216.6	7550.1	7847.8
10°	5906.7	5910.7	5982.1	6097.2	6287.8	6331.4	6617.2	6978.5	7395.3	7800.2
12.5°	5672.5	5700.3	5732.0	5819.4	6002.0	6029.7	6335.4	6760.1	7240.5	7772.4
15°	5672.5	5692.3	5712.2	5755.9	5902.7	5926.5	6196.5	6621.2	7161.1	7784.3
17.5°	5732.0	5763.8	5747.9	5799.5	5954.3	5970.2	6208.4	6581.5	7157.1	7859.7
20°	5874.9	5898.8	5867.0	5898.8	6053.6	6085.3	6331.4	6656.9	7224.6	7990.7
22.5°	6101.2	6113.1	6037.7	6061.5	6220.3	6260.0	6545.8	6871.3	7387.3	8201.1
25°	6387.0	6410.8	6295.7	6323.5	6474.3	6522.0	6851.4	7192.8	7645.4	8490.9
27.5°	6716.5	6728.4	6629.2	6625.2	6819.7	6887.2	7220.6	7589.8	7990.7	8856.1
30°	7093.6	7129.3	7034.0	7018.2	7264.3	7319.9	7649.3	8078.0	8498.8	9403.9
32.5°	7391.3	7419.1	7363.5	7403.2	7653.3	7697.0	8169.3	8768.7	9296.7	10181.9
35°	7820.0	7835.9	7708.9	7780.3	8066.1	8177.3	8879.9	9737.3	10301.0	11158.4
37.5°	9372.1	9372.1	8832.3	8479.0	8752.9	8852.1	9852.4	10956.0	11539.5	12468.4
40°	11519.6	11483.9	10694.0	9971.5	9935.8	10130.3	11237.8	12492.2	13139.2	14040.3
42.5°	13810.1	13754.5	12678.7	11964.2	11845.1	11912.6	12837.5	14385.7	15044.6	15957.6
45°	15842.5	15826.6	14842.2	13881.5	13667.2	13881.5	14834.2	16600.7	17073.0	18033.7
47.5°	17545.4	17545.4	16826.9	16199.7	16088.6	16215.6	17537.5	19057.8	19014.2	20244.7
50°	19506.4	19490.5	18807.7	18537.8	18652.9	18831.6	20649.6	21646.0	21022.7	22416.1
52.5°	20879.8	20975.1	20740.9	20697.2	21284.7	21594.4	23809.4	24178.5	22821.0	24476.3
55°	21967.5	22078.6	22348.6	22654.2	23785.6	24190.4	26869.9	26580.1	24325.4	26262.6
57.5°	23507.7	23348.9	23765.7	24369.1	26199.0	26687.3	29835.2	28846.7	25536.1	27711.4
60°	25377.3	25401.2	25472.6	26234.8	28608.6	29235.8	32756.7	30990.3	26314.2	28600.6
62.5°	27624.1	27659.8	27806.7	28977.7	31843.7	32435.2	35868.9	32744.8	26671.4	28350.5
65°	27469.3	27620.1	29259.6	33264.8	36762.0	37345.5	39501.0	33975.4	26131.6	26064.1
67.5°	25024.1	25270.2	28013.1	38385.6	44177.1	44828.2	43891.3	34217.5	23801.4	20268.5
70°	21816.7	21904.0	25202.7	42990.2	52763.3	53422.2	47821.2	31554.0	18061.5	11305.3
72.5°	17037.3	17057.2	20927.5	44058.1	57423.5	57459.3	44736.9	23424.3	9713.5	4342.7
75°	12170.6	12051.6	14016.5	35729.9	50520.5	50925.4	33538.7	10987.7	3711.5	2052.3
77.5°	6525.9	6656.9	7931.2	21189.5	34900.3	35591.0	18299.6	3167.7	1889.5	1397.3
80°	2016.5	2127.7	3251.1	9701.6	19768.4	20185.2	6784.0	1409.2	1317.9	996.4
82.5°	635.1	658.9	1516.4	4076.7	8205.1	8395.6	1964.9	797.9	901.1	658.9
85°	182.6	186.6	674.8	1520.3	2028.4	2068.1	551.8	309.6	516.0	408.9
87.5°	19.8	63.5	254.1	254.1	178.6	174.7	59.5	67.5	146.9	51.6
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°
7851.8	0°	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8	7851.8
7887.5	2.5°	7867.7	7871.6	7820.0	7732.7	7637.4	7558.0	7458.8	7379.4	7323.8	7307.9
7959.0	5°	7923.2	7895.4	7748.6	7482.6	7165.0	6891.1	6585.5	6343.3	6184.6	6117.1
8034.4	7.5°	8006.6	7927.2	7605.7	7081.7	6474.3	5934.5	5386.7	4961.9	4692.0	4557.0
8105.8	10°	8078.0	7919.3	7367.5	6502.1	5573.3	4755.5	4017.2	3505.1	3219.3	3084.3
8189.2	12.5°	8145.5	7915.3	7057.9	5815.4	4557.0	3556.7	2870.0	2615.9	2536.5	2508.8
8324.2	15°	8272.5	7927.2	6668.8	5029.4	3544.8	2687.4	2437.3	2433.3	2449.2	2441.3
8530.6	17.5°	8447.2	7939.1	6228.2	4195.8	2735.0	2369.8	2357.9	2393.6	2417.5	2405.5
8788.6	20°	8673.5	7986.7	5759.8	3370.1	2350.0	2290.4	2318.2	2350.0	2369.8	2350.0
9133.9	22.5°	8991.0	8070.1	5247.7	2707.2	2226.9	2242.8	2266.6	2302.3	2322.2	2294.4
9574.6	25°	9380.1	8201.1	4743.6	2353.9	2167.4	2187.2	2222.9	2262.6	2286.5	2258.7
10130.3	27.5°	9884.2	8411.5	4279.2	2274.6	2107.8	2119.7	2171.3	2230.9	2262.6	2226.9
10920.2	30°	10614.6	8756.8	3878.3	2310.3	2072.1	2044.3	2115.8	2199.1	2234.9	2203.1
11996.0	32.5°	11583.2	9245.1	3632.1	2365.9	2056.2	1957.0	2024.5	2131.6	2191.2	2171.3
13401.2	35°	12853.4	9987.4	3536.9	2429.4	2044.3	1865.7	1913.3	2028.4	2131.6	2151.5
15171.6	37.5°	14393.6	11019.5	3564.7	2457.2	2008.6	1790.3	1814.1	1913.3	2048.3	2111.8
17164.3	40°	16144.2	12222.3	3723.4	2429.4	1968.9	1726.8	1730.7	1806.1	1925.2	2020.5
19307.9	42.5°	17950.3	13627.5	4017.2	2326.2	1933.2	1671.2	1659.3	1710.9	1790.3	1857.8
21447.5	45°	19669.1	15072.4	4307.0	2183.3	1889.5	1615.6	1587.8	1607.7	1623.5	1651.3
23531.5	47.5°	21169.6	16088.6	4223.6	2052.3	1830.0	1552.1	1504.5	1496.5	1448.9	1444.9
25393.2	50°	22205.7	16310.9	3751.2	1921.3	1742.6	1480.6	1405.2	1357.6	1274.2	1234.5
26786.5	52.5°	22535.1	15433.6	3064.5	1790.3	1599.7	1385.4	1278.2	1202.8	1099.6	1063.8
27588.4	55°	22098.5	13714.8	2449.2	1631.5	1401.3	1258.3	1139.3	1040.0	956.7	913.0
27675.7	57.5°	21030.7	11527.6	1937.1	1444.9	1190.9	1115.4	996.4	897.1	825.7	782.0
26707.1	60°	19260.3	9153.8	1532.2	1222.6	1016.2	960.6	837.6	774.1	710.5	658.9
24206.3	62.5°	16572.9	6533.9	1202.8	968.6	849.5	786.0	714.5	666.9	591.5	520.0
19708.8	65°	12932.8	3997.3	928.9	710.5	682.8	651.0	607.3	563.7	472.4	400.9
12857.4	67.5°	8157.4	1893.5	662.9	535.9	539.9	524.0	504.1	468.4	400.9	337.4
5759.8	70°	3592.4	917.0	436.7	408.9	400.9	400.9	416.8	404.9	341.4	281.8
2000.7	72.5°	1222.6	492.2	325.5	309.6	289.8	285.8	349.3	337.4	273.9	218.3
996.4	75°	639.1	329.5	238.2	222.3	174.7	210.4	277.9	262.0	194.5	142.9
658.9	77.5°	416.8	234.2	162.8	142.9	99.2	138.9	206.4	182.6	115.1	71.5
432.7	80°	262.0	154.8	95.3	67.5	47.6	75.4	111.1	79.4	43.7	15.9
254.1	82.5°	138.9	79.4	35.7	23.8	19.8	23.8	27.8	19.8	7.9	0.0
131.0	85°	55.6	27.8	11.9	7.9	4.0	0.0	7.9	4.0	0.0	0.0
23.8	87.5°	19.8	4.0	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

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<u>180°</u>
7851.8
7335.7
6140.9
4576.9
3088.3
2500.8
2437.3
2401.6
2346.0
2290.4
2254.7
2226.9
2199.1
2171.3
2151.5
2127.7
2052.3
1885.5
1667.2
1440.9
1238.5
1059.9
913.0
774.1
647.0
508.1
389.0
329.5
269.9
206.4
131.0
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11.9
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