

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: P955703

Luminaire Tested: **GALN-SB8C-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

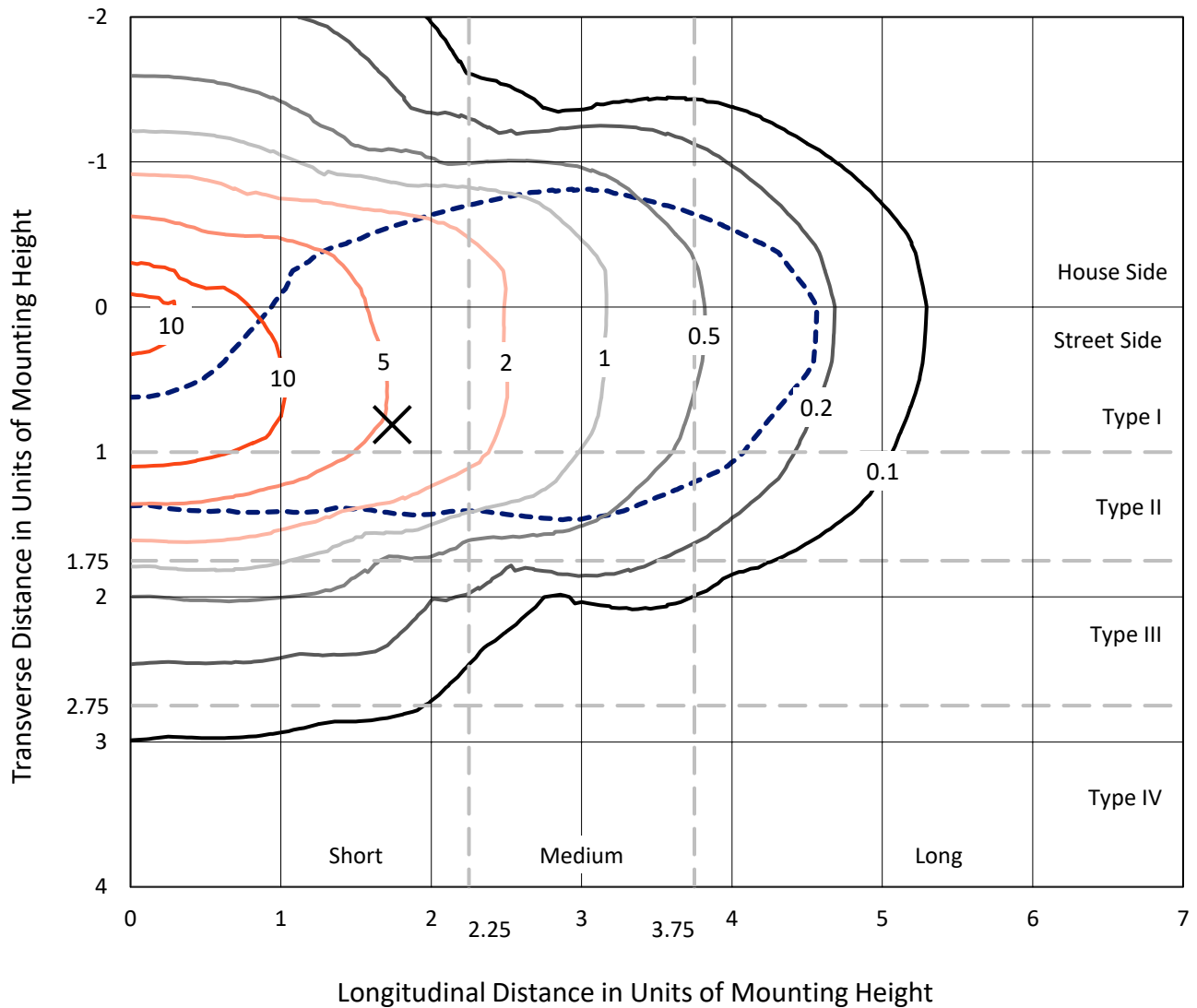
Lumens per Lamp: N/A  
Luminaire Lumens: 53365 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

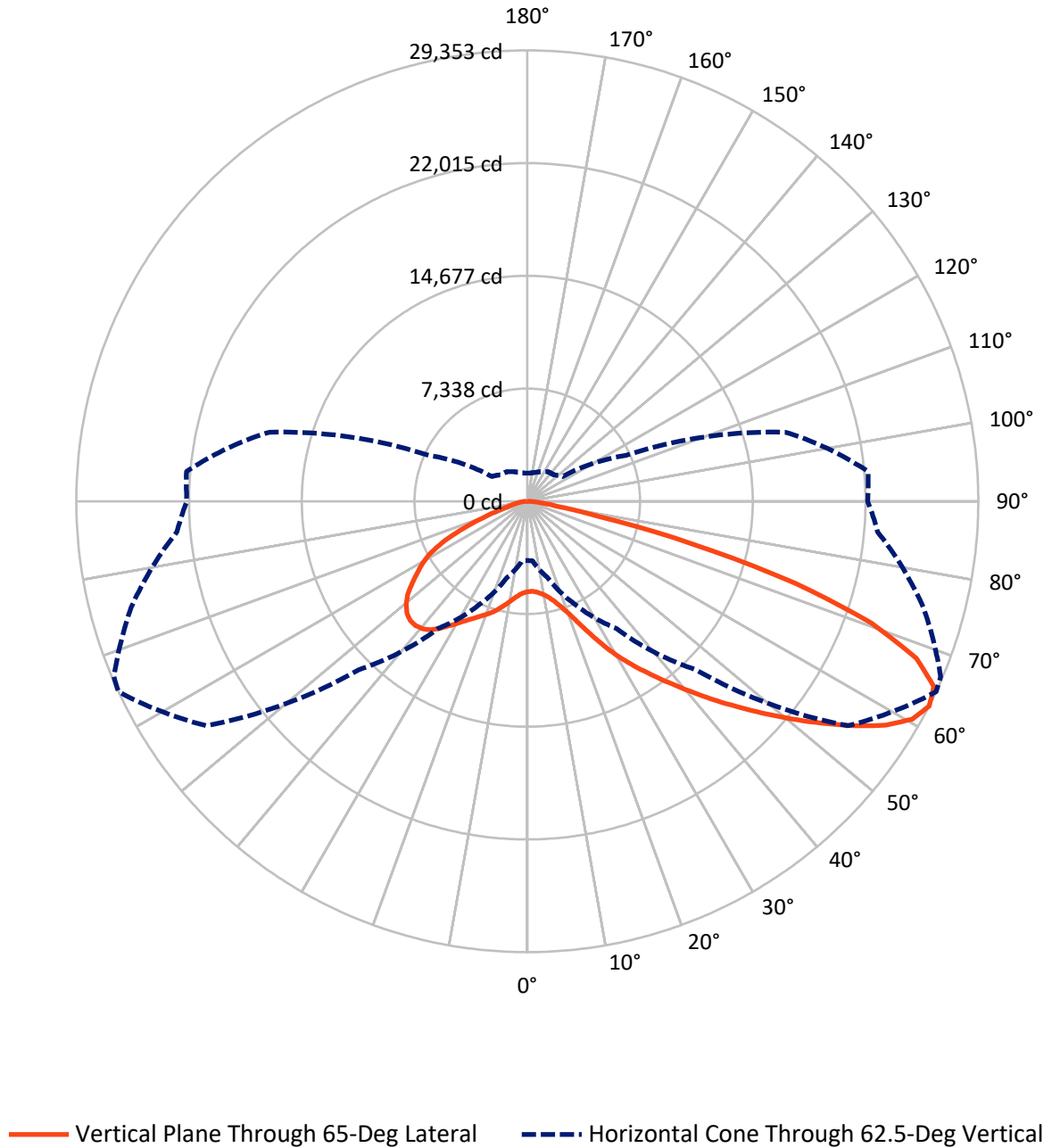
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - 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	16839.7	0.0	16839.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	36525.3	0.0	36525.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	53365.0	0.0	53365.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.3	1.1
10°-20°	1988.2	3.7
20°-30°	4031.2	7.6
30°-40°	6975.9	13.1
40°-50°	10556.7	19.8
50°-60°	12377.1	23.2
60°-70°	10376.7	19.4
70°-80°	5728.8	10.7
80°-90°	744.1	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°	53365.0	100.0
0°-180°	53365.0	100.0

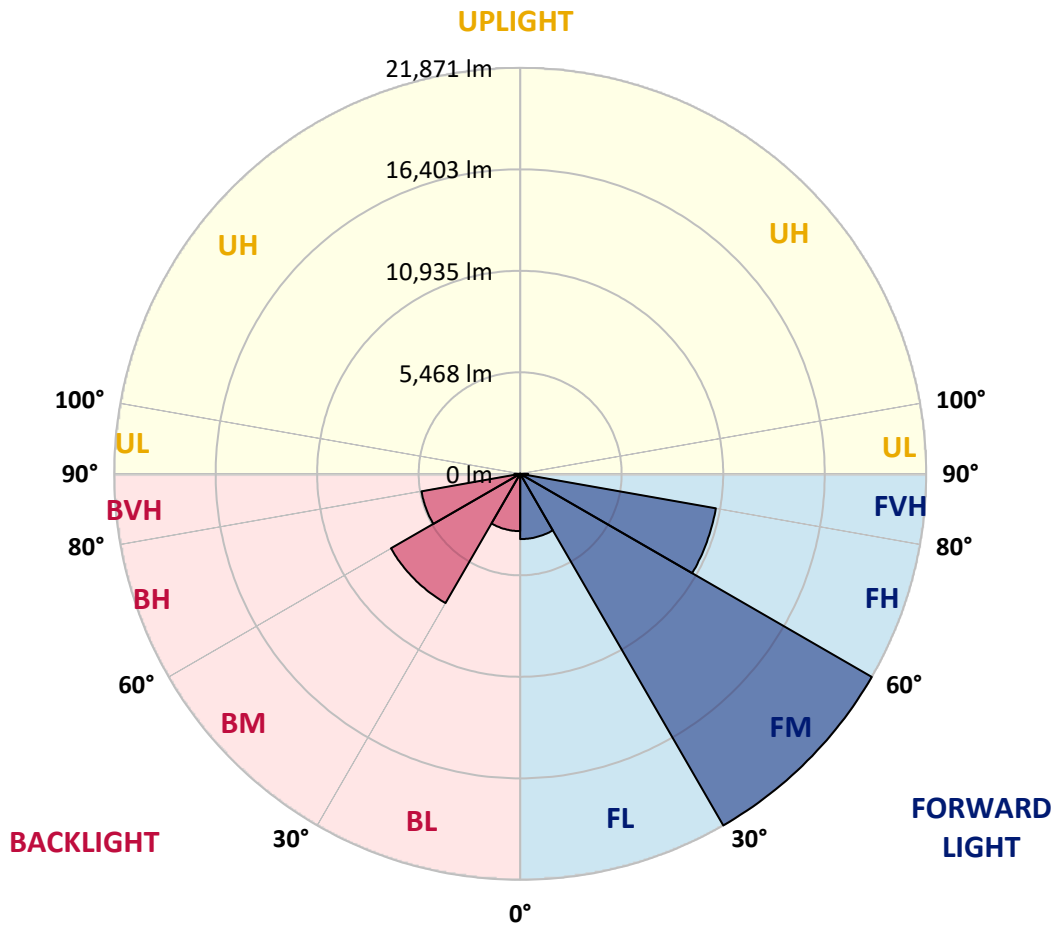


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3517.5	6.6			
FM (30°-60°)	21870.7	41.0			
FH (60°-80°)	10703.5	20.1			G4/12000
FVH (80°-90°)	433.7	0.8			G3/500
BL (0°-30°)	3088.2	5.8	B4/5000		
BM (30°-60°)	8039.0	15.1	B4/8500		
BH (60°-80°)	5402.0	10.1	B5		G5
BVH (80°-90°)	310.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6
2.5°	5841.8	5825.2	5839.1	5839.1	5844.6	5841.8	5861.2	5866.7	5875.1	5891.7
5°	5783.7	5780.9	5805.8	5828.0	5850.1	5869.5	5894.4	5930.4	5936.0	5955.3
7.5°	5764.3	5747.7	5786.5	5814.1	5866.7	5913.8	5980.3	6041.2	6066.1	6074.4
10°	5913.8	5886.1	5922.1	5938.7	5983.0	6030.1	6107.6	6204.5	6232.2	6265.4
12.5°	6168.5	6138.1	6190.7	6215.6	6257.1	6298.7	6351.3	6445.4	6459.2	6520.1
15°	6517.4	6481.4	6514.6	6545.1	6614.3	6653.0	6705.6	6797.0	6797.0	6844.1
17.5°	6990.8	6943.7	6968.7	6979.7	7024.0	7082.2	7170.8	7251.1	7292.6	7276.0
20°	7696.8	7638.7	7638.7	7583.3	7566.7	7613.8	7730.0	7840.8	7885.1	7799.3
22.5°	8757.2	8674.1	8627.1	8438.8	8364.1	8369.6	8485.9	8621.5	8657.5	8505.3
25°	10105.5	9975.4	9911.7	9634.9	9466.0	9319.2	9410.6	9585.0	9634.9	9446.6
27.5°	11453.9	11462.2	11401.3	11069.0	10789.4	10520.8	10473.8	10656.5	10709.1	10495.9
30°	13344.8	13148.3	13032.0	12633.3	12234.6	11858.1	11664.3	11739.0	11752.9	11498.2
32.5°	14975.6	14925.7	14676.6	14327.7	13815.5	13225.8	12901.9	12782.8	12760.7	12398.0
35°	16833.3	16805.6	16542.6	16127.3	15573.6	14754.1	14169.9	13829.4	13801.7	13292.2
37.5°	18721.5	18721.5	18464.1	18010.0	17436.9	16412.5	15523.8	14983.9	14895.3	14230.8
40°	20227.7	20136.3	20183.4	19992.4	19336.2	18248.1	17027.1	16243.6	16124.6	15327.2
42.5°	21083.2	21052.7	21335.1	21548.3	21279.8	20410.4	18682.8	17608.6	17442.4	16534.3
45°	21274.2	21241.0	21744.9	22525.7	22902.2	22545.0	20482.4	19045.5	18843.4	17796.8
47.5°	20834.0	20767.6	21506.8	22738.8	23946.0	24574.4	22431.5	20604.2	20310.7	19026.1
50°	19510.6	19446.9	20565.5	22201.7	24297.6	25953.2	24546.8	22257.1	21808.6	20344.0
52.5°	16634.0	16664.4	18417.0	20665.1	23835.2	26811.5	26368.5	23998.6	23458.7	21692.3
55°	12957.2	13023.7	15177.7	17652.8	21985.8	26681.4	27611.6	25792.7	25255.5	22960.3
57.5°	9277.7	9571.2	11589.5	14039.8	18433.6	24618.7	27883.0	27498.1	26977.6	24344.7
60°	6013.5	6066.1	8142.6	10612.2	14037.0	20953.1	27332.0	28791.1	28384.1	25756.7
62.5°	3853.9	3889.9	5155.2	7422.7	10102.8	15501.6	25477.0	29353.1	29228.5	26689.7
65°	2832.3	2804.6	3463.6	4906.0	6805.3	9560.1	21875.0	29081.8	29328.2	27273.9
67.5°	2364.4	2325.7	2649.6	3397.1	5014.0	5429.3	16185.5	27318.2	28220.7	27207.4
70°	2154.0	2120.8	2317.4	2522.2	3912.1	3635.2	8159.2	23749.4	25139.3	26451.6
72.5°	1824.5	1766.4	2035.0	2239.8	3042.7	2788.0	3372.2	18242.6	19937.0	24029.0
75°	1414.8	1376.0	1605.8	1971.3	2286.9	2176.2	2131.9	11077.3	12926.8	18583.1
77.5°	1121.3	1068.7	1279.1	1536.6	2057.1	1641.8	1553.2	4770.4	6603.2	11863.6
80°	844.4	797.4	971.8	1215.4	1580.9	1237.6	1005.0	1946.4	2489.0	6010.7
82.5°	600.8	559.3	678.3	891.5	1063.2	1110.2	617.4	1090.8	1226.5	2317.4
85°	384.8	359.9	454.1	559.3	675.5	714.3	376.5	570.3	625.7	955.2
87.5°	210.4	171.7	243.6	260.3	312.9	285.2	180.0	207.6	224.3	346.1
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°
5880.6	0°	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6	5880.6
5891.7	2.5°	5902.7	5911.0	5938.7	5947.0	5966.4	5991.3	6007.9	6024.6	6024.6	6041.2
5980.3	5°	5983.0	6002.4	6060.6	6091.0	6140.8	6190.7	6221.1	6257.1	6279.3	6290.4
6121.5	7.5°	6138.1	6168.5	6251.6	6304.2	6390.0	6459.2	6506.3	6556.1	6567.2	6597.7
6318.0	10°	6348.5	6384.5	6478.6	6578.3	6680.7	6766.6	6810.9	6846.8	6860.7	6866.2
6570.0	12.5°	6589.4	6642.0	6763.8	6885.6	6993.6	7068.3	7079.4	7071.1	7032.3	6999.1
6880.1	15°	6885.6	6932.7	7068.3	7201.2	7306.4	7320.3	7251.1	7206.8	7159.7	7151.4
7226.2	17.5°	7240.0	7264.9	7389.5	7519.6	7527.9	7480.9	7378.4	7336.9	7292.6	7262.1
7677.4	20°	7652.5	7644.2	7732.8	7788.2	7730.0	7586.1	7431.0	7361.8	7317.5	7281.5
8231.2	22.5°	8145.3	8081.7	8070.6	8056.7	7901.7	7599.9	7389.5	7300.9	7231.7	7181.9
9003.6	25°	8862.4	8618.8	8449.9	8355.8	8006.9	7525.2	7256.6	7060.0	6929.9	6844.1
9947.7	27.5°	9759.5	9349.7	8923.3	8693.5	8006.9	7372.9	6935.4	6617.0	6403.9	6315.3
10861.4	30°	10615.0	10185.8	9557.3	9100.5	7987.5	7123.7	6417.7	5974.7	5725.5	5637.0
11642.1	32.5°	11345.9	10878.0	10230.1	9546.3	7940.5	6719.5	5775.4	5285.3	5044.5	4939.3
12414.6	35°	12024.2	11525.8	10905.7	10036.3	7815.9	6127.0	5069.4	4695.6	4427.1	4258.2
13200.9	37.5°	12719.1	12126.6	11545.2	10479.3	7591.6	5434.8	4526.7	4208.3	3892.7	3665.7
14037.0	40°	13475.0	12766.2	12229.1	10742.3	7223.4	4775.9	4105.9	3815.2	3480.2	3239.3
15000.5	42.5°	14358.2	13533.1	12990.5	10878.0	6719.5	4308.0	3831.8	3546.6	3231.0	3034.4
16033.2	45°	15280.1	14377.5	13685.4	10875.2	6157.5	4089.3	3743.2	3460.8	3112.0	2907.1
17093.6	47.5°	16246.4	15260.7	14286.2	10698.0	5670.2	4119.7	3693.4	3275.3	2890.5	2691.1
18165.0	50°	17215.4	16227.0	14867.6	10365.8	5462.5	4053.3	3507.9	3015.0	2561.0	2381.0
19170.1	52.5°	18176.1	17254.2	15368.7	9892.4	5252.1	3806.9	3269.8	2677.3	2425.3	2300.7
20208.3	55°	19142.4	18270.3	15914.1	9203.0	4726.1	3518.9	2871.1	2549.9	2317.4	2203.8
21224.4	57.5°	20111.4	19444.2	16431.9	8513.6	4064.4	3164.6	2652.4	2394.9	2209.4	2112.5
22074.4	60°	21119.2	20786.9	16966.2	7879.5	3411.0	2710.5	2491.8	2270.3	2082.0	1974.0
22891.1	62.5°	22157.4	22265.4	17384.3	7062.8	2810.2	2433.6	2347.8	2120.8	1938.0	1835.6
23566.7	65°	23204.0	23691.3	17658.4	5930.4	2278.6	2170.6	2192.8	1957.4	1771.9	1683.3
24062.3	67.5°	23993.0	24718.4	17580.9	4488.0	1868.8	1921.4	1999.0	1785.8	1611.3	1542.1
23982.0	70°	24081.6	24596.6	16816.7	3073.2	1564.3	1677.8	1783.0	1616.9	1436.9	1387.1
22852.4	72.5°	22902.2	22935.4	14687.6	2007.3	1323.4	1472.9	1556.0	1445.2	1270.8	1221.0
19992.4	75°	19809.6	18968.0	10783.9	1323.4	1107.5	1265.3	1342.8	1265.3	1096.4	1107.5
14959.0	77.5°	15008.8	13433.4	6547.8	941.3	924.7	1063.2	1168.4	1113.0	969.0	1088.1
7522.4	80°	7732.8	7267.7	2920.9	703.2	730.9	850.0	960.7	888.7	766.9	730.9
1680.6	82.5°	1771.9	2059.9	1151.8	503.9	528.8	611.9	733.7	667.2	551.0	465.1
700.5	85°	620.2	678.3	509.4	315.6	310.1	382.1	498.4	445.8	373.8	299.0
296.2	87.5°	196.6	257.5	191.0	127.4	132.9	171.7	229.8	210.4	174.4	113.5
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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180°  
5880.6  
6041.2  
6295.9  
6586.6  
6852.4  
6999.1  
7151.4  
7264.9  
7284.3  
7198.5  
6877.3  
6359.6  
5689.6  
4991.9  
4313.5  
3726.6  
3286.4  
3073.2  
2940.3  
2718.8  
2392.1  
2300.7  
2192.8  
2095.9  
1965.7  
*1832.8*  
1680.6  
1544.9  
1389.9  
1218.2  
1068.7  
957.9  
667.2  
459.6  
315.6  
119.1  
0.0

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