

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: P955369

Luminaire Tested: **GALN-SB8B-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

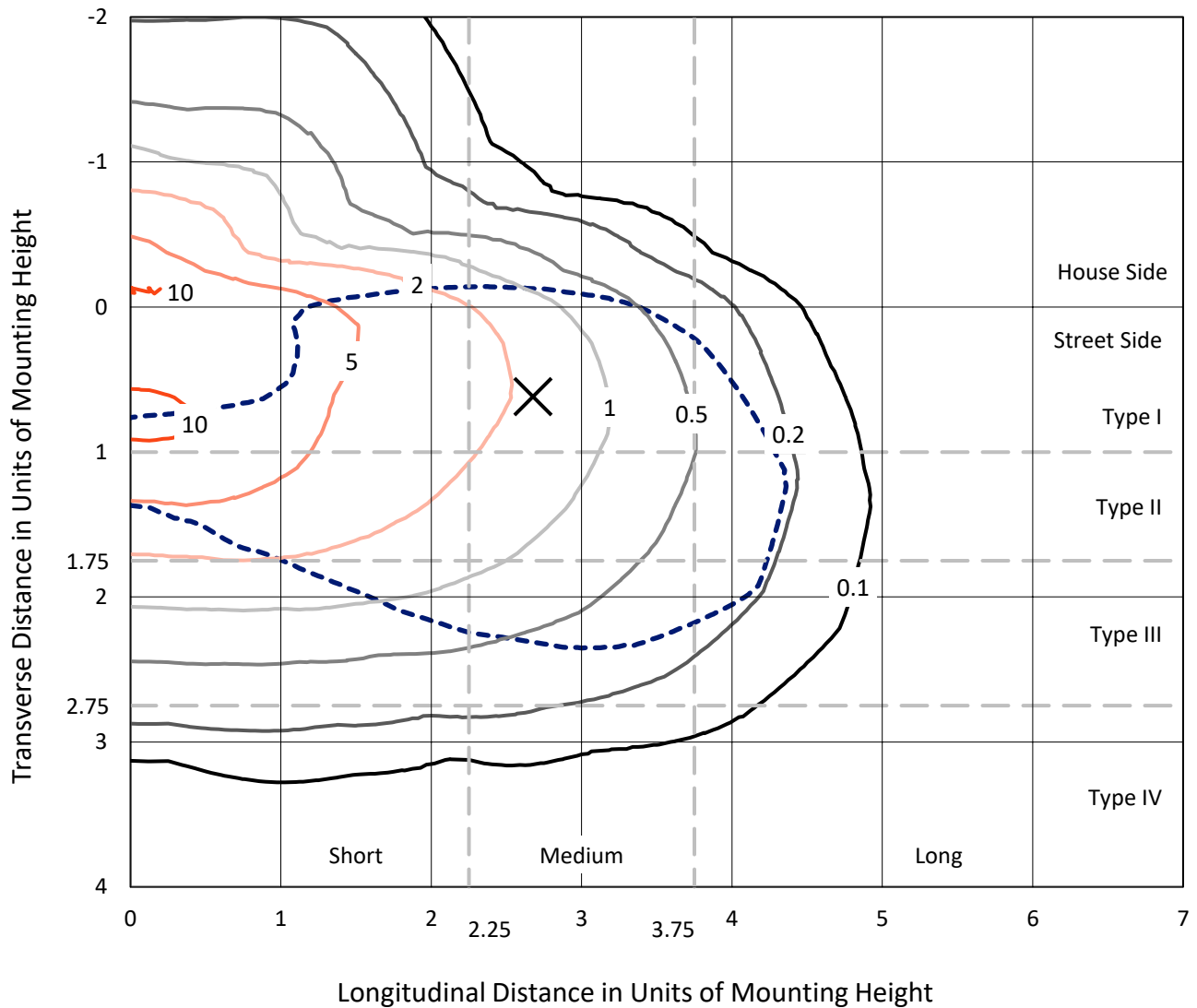
Lumens per Lamp: N/A  
Luminaire Lumens: 42002 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

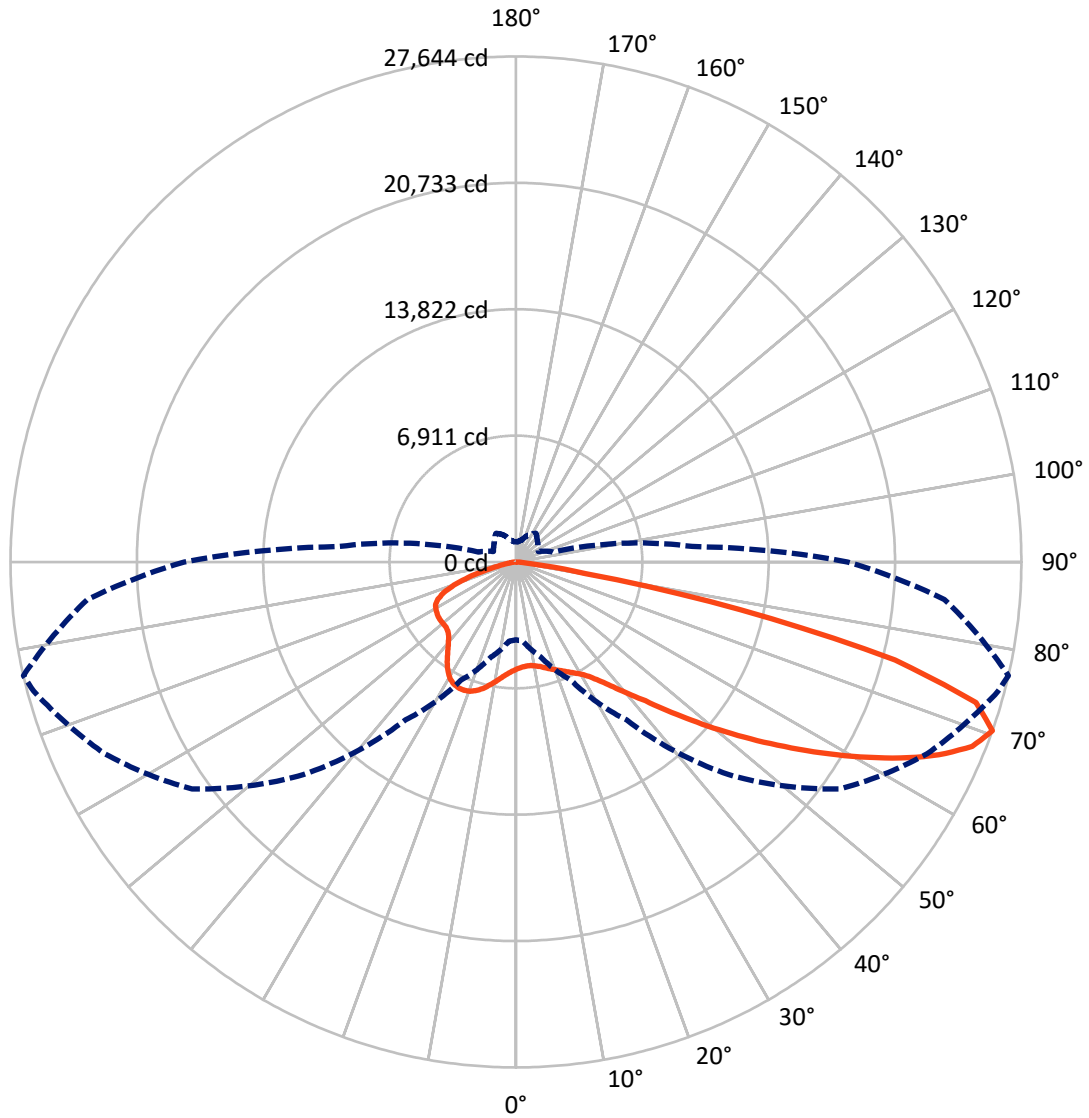
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9197.8	0.0	9197.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	32804.2	0.0	32804.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	42002.0	0.0	42002.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.9	1.3
10°-20°	1612.9	3.8
20°-30°	2758.3	6.6
30°-40°	4435.6	10.6
40°-50°	6925.2	16.5
50°-60°	9250.4	22.0
60°-70°	9859.5	23.5
70°-80°	6069.4	14.5
80°-90°	531.8	1.3
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°	42002.0	100.0
0°-180°	42002.0	100.0



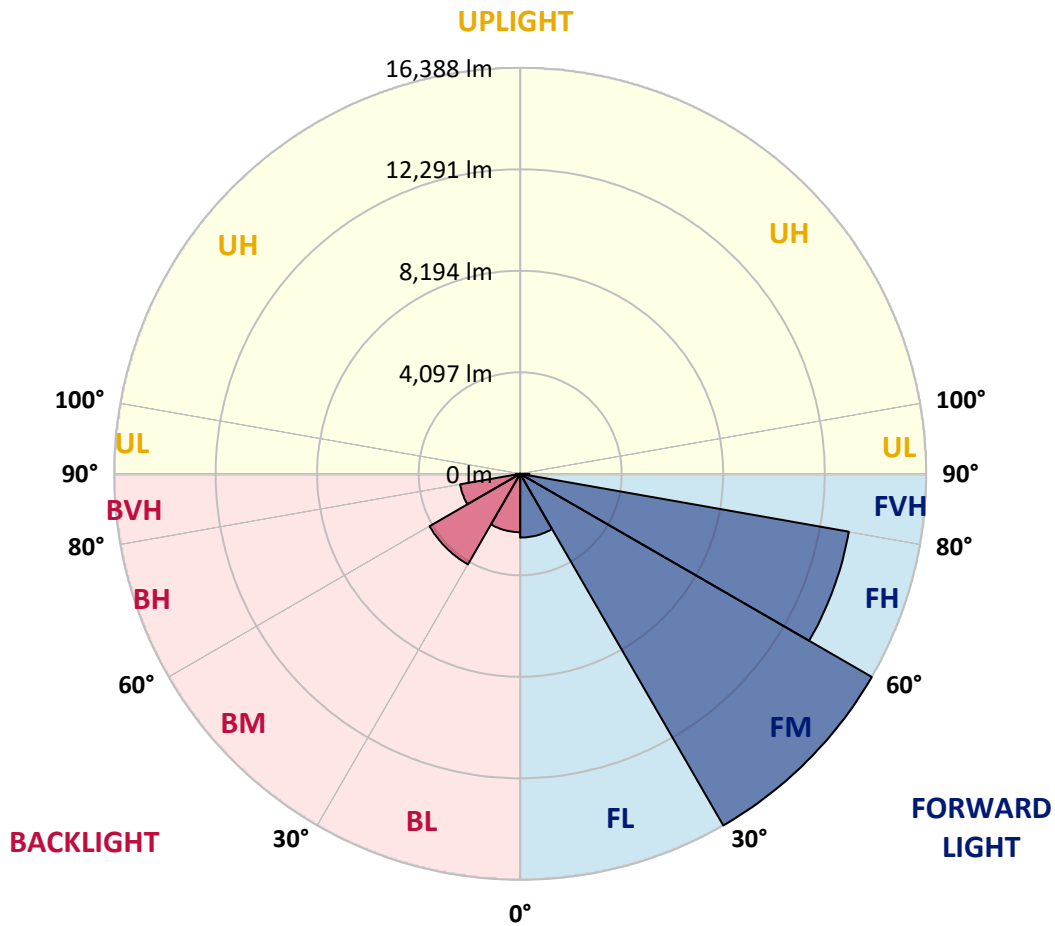
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2573.3	6.1			
FM (30°-60°)	16388.3	39.0			
FH (60°-80°)	13470.7	32.1			G5
FVH (80°-90°)	371.9	0.9			G3/500
BL (0°-30°)	2356.8	5.6	B3/2500		
BM (30°-60°)	4222.9	10.1	B3/5000		
BH (60°-80°)	2458.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	159.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7
2.5°	5401.5	5399.3	5427.3	5435.9	5487.5	5524.1	5592.9	5666.1	5760.7	5771.5
5°	5089.6	5089.6	5121.8	5156.2	5222.9	5296.1	5401.5	5528.4	5691.9	5717.7
7.5°	4825.0	4842.2	4870.1	4936.8	5014.3	5119.7	5281.0	5461.7	5676.8	5717.7
10°	4612.0	4631.4	4665.8	4719.6	4835.7	4982.0	5192.8	5425.1	5713.4	5777.9
12.5°	4545.3	4564.7	4584.0	4624.9	4732.5	4904.6	5156.2	5442.3	5801.6	5866.1
15°	4700.2	4723.9	4708.8	4698.1	4754.0	4911.0	5173.5	5504.7	5911.3	6003.8
17.5°	5057.3	5065.9	5031.5	4930.4	4921.8	5005.7	5255.2	5590.8	6049.0	6150.1
20°	5633.8	5618.7	5547.7	5347.7	5233.7	5216.5	5395.0	5719.8	6190.9	6298.5
22.5°	6416.8	6399.6	6257.6	5941.4	5687.6	5519.8	5597.2	5887.6	6350.1	6470.6
25°	7393.4	7369.8	7161.1	6730.9	6337.2	5922.0	5872.6	6109.2	6545.9	6657.7
27.5°	8533.5	8514.1	8288.3	7720.4	7152.5	6472.7	6214.6	6369.5	6750.2	6877.1
30°	9759.7	9815.6	9415.5	8804.6	8086.1	7191.2	6674.9	6690.0	7014.8	7128.8
32.5°	11200.9	11297.7	10815.9	10041.4	9060.5	7972.1	7255.7	7137.4	7399.9	7494.5
35°	12629.2	12739.0	12338.8	11482.7	10353.4	8892.7	7862.4	7651.5	7911.8	8015.1
37.5°	13864.0	14010.3	13803.8	13059.5	11736.5	10002.7	8654.0	8256.0	8542.1	8671.2
40°	14838.5	15062.2	15047.1	14582.5	13367.1	11349.3	9658.5	9002.5	9325.1	9464.9
42.5°	15630.1	15823.7	15991.5	15967.8	15068.6	12878.8	10839.5	9972.6	10217.8	10379.2
45°	16176.5	16383.0	16744.4	17133.7	16705.6	14515.8	12192.6	11123.5	11347.2	11590.3
47.5°	16664.8	16899.2	17368.2	17985.5	18095.3	16159.2	13674.7	12463.6	12668.0	12919.7
50°	16707.8	16910.0	17637.1	18512.6	19082.6	17738.2	15266.5	13967.2	14158.7	14427.6
52.5°	15668.8	15987.2	17256.3	18497.5	19536.5	19059.0	16847.6	15531.1	15746.2	16068.9
55°	12162.5	12629.2	16139.9	17921.0	19375.2	19913.0	18351.2	17193.9	17469.3	17807.0
57.5°	10476.0	10680.3	12812.1	16871.3	18639.5	20134.5	19620.4	18874.0	19317.1	19687.1
60°	9415.5	9585.4	10846.0	15238.6	17671.5	19783.9	20601.3	20440.0	21205.8	21646.8
62.5°	8279.7	8441.0	9587.6	12723.9	16432.4	19200.9	21220.8	21885.5	23141.8	23623.6
65°	7152.5	7290.2	8389.4	10691.1	14857.8	18618.0	21541.4	23135.3	24933.7	25432.7
67.5°	5896.2	6010.2	7049.2	9019.7	12943.3	17819.9	21700.5	24118.4	26493.2	26921.3
70°	4254.9	4343.1	5416.5	7133.1	10540.5	16447.5	21636.0	24815.4	27302.1	27644.1
72.5°	2011.3	2090.9	3351.5	4631.4	7445.0	13775.8	20330.3	24262.5	26480.3	26310.4
75°	1073.4	1142.2	1925.3	2540.5	3932.3	9443.4	16636.8	20900.3	22236.2	21410.1
77.5°	727.1	780.9	1191.7	1525.1	1796.2	4482.9	10693.2	14470.6	13922.1	12558.3
80°	576.5	632.4	976.6	1032.5	869.1	1619.8	4418.4	6698.6	4812.1	3848.4
82.5°	443.1	505.5	821.7	748.6	473.2	664.7	1286.4	2118.9	1232.6	937.9
85°	271.0	337.7	645.3	477.5	266.7	303.3	436.7	589.4	376.4	314.1
87.5°	137.7	193.6	327.0	174.2	120.5	71.0	116.2	116.2	99.0	86.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5859.7	0°	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7	5859.7
5829.5	2.5°	5881.2	5924.2	5997.3	6066.2	6119.9	6171.6	6223.2	6251.2	6259.8	6294.2
5861.8	5°	5950.0	6029.6	6171.6	6304.9	6388.8	6440.5	6477.0	6498.5	6502.8	6513.6
5950.0	7.5°	6076.9	6203.8	6401.7	6535.1	6597.5	6593.2	6578.1	6524.4	6502.8	6483.5
6079.1	10°	6255.5	6423.3	6666.3	6758.8	6720.1	6616.9	6483.5	6326.5	6253.3	6182.3
6255.5	12.5°	6477.0	6690.0	6928.8	6924.5	6733.0	6468.4	6158.7	5917.7	5765.0	5655.3
6472.7	15°	6745.9	6991.2	7174.0	7027.7	6608.3	6132.9	5679.0	5364.9	5227.2	5106.8
6692.1	17.5°	7023.4	7285.9	7369.8	6995.5	6294.2	5635.9	5121.8	4874.4	4738.9	4674.4
6928.8	20°	7294.5	7554.7	7485.9	6810.5	5816.6	5072.4	4614.2	4478.6	4450.7	4465.7
7158.9	22.5°	7580.6	7812.9	7509.6	6453.4	5207.9	4495.8	4244.2	4248.5	4310.9	4356.0
7399.9	25°	7873.1	8030.1	7447.2	5937.1	4553.9	4072.1	4009.7	4078.5	4201.1	4289.3
7670.9	27.5°	8154.9	8223.7	7311.7	5298.2	3992.5	3768.8	3779.5	3921.5	4106.5	4229.1
8000.0	30°	8473.3	8395.8	7051.4	4579.7	3603.1	3508.5	3598.8	3764.5	3949.5	4059.2
8415.2	32.5°	8832.5	8544.3	6638.4	3915.0	3327.8	3299.8	3448.3	3555.8	3637.6	3669.8
8965.9	35°	9279.9	8752.9	6109.2	3448.3	3080.4	3147.1	3289.1	3235.3	3203.0	3185.8
9705.9	37.5°	9860.8	9034.7	5489.7	3144.9	2880.4	3037.4	3095.5	2927.7	2800.8	2738.4
10602.9	40°	10559.9	9447.7	4893.8	2910.5	2753.4	2942.7	2841.6	2639.4	2478.1	2389.9
11611.8	42.5°	11336.4	9880.1	4392.6	2734.1	2682.5	2865.3	2654.5	2413.6	2153.3	2125.3
12814.2	45°	12151.7	10325.4	4050.6	2598.6	2648.0	2798.6	2546.9	2157.6	1972.6	2086.6
14021.0	47.5°	12967.0	10734.1	3844.1	2497.5	2630.8	2723.3	2452.3	2015.6	1884.4	2050.0
15313.9	50°	13874.8	11099.8	3751.6	2424.3	2611.5	2693.2	2310.3	1979.0	1791.9	1901.6
16651.9	52.5°	14776.1	11383.7	3682.7	2351.2	2583.5	2669.5	2241.5	1936.0	1680.0	1686.5
17998.5	55°	15675.2	11568.7	3607.4	2254.4	2521.1	2617.9	2235.0	1888.7	1596.1	1566.0
19422.5	57.5°	16634.6	11674.2	3514.9	2146.8	2413.6	2486.7	2228.6	1852.1	1570.3	1520.8
20878.8	60°	17611.3	11829.0	3394.5	2015.6	2269.4	2329.7	2213.5	1839.2	1555.3	1471.4
22251.2	62.5°	18486.8	11882.8	3250.3	1890.8	2084.4	2174.8	2181.2	1828.5	1514.4	1370.3
23391.3	65°	19061.1	11650.5	2998.7	1748.9	1884.4	2015.6	2118.9	1791.9	1441.3	1297.1
23954.9	67.5°	19037.4	10987.9	2605.0	1566.0	1690.8	1839.2	2028.5	1729.5	1353.1	1206.8
23529.0	70°	18151.2	9680.1	2106.0	1353.1	1477.8	1649.9	1912.3	1637.0	1247.7	1107.8
20921.8	72.5°	15567.7	7576.3	1529.4	1103.5	1230.4	1454.2	1761.8	1525.1	1140.1	1019.6
15462.3	75°	11121.3	4794.9	1036.8	847.5	957.3	1232.6	1574.6	1393.9	1041.1	1023.9
7744.0	77.5°	5681.1	2290.9	686.2	619.5	666.8	972.3	1322.9	1245.5	1056.2	845.4
2202.8	80°	1847.8	845.4	432.4	421.6	443.1	647.5	1023.9	1021.8	800.2	574.4
533.5	82.5°	589.4	363.5	281.8	271.0	260.3	406.6	714.2	808.8	539.9	363.5
191.5	85°	234.5	217.3	165.6	152.7	109.7	191.5	374.3	537.8	402.3	262.4
49.5	87.5°	86.0	86.0	45.2	32.3	23.7	64.5	101.1	161.3	230.2	135.5
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°  
5859.7  
6313.5  
6530.8  
6487.8  
6160.8  
5629.5  
5093.9  
4693.8  
4459.3  
4366.8  
4313.0  
4259.2  
4085.0  
3687.0  
3203.0  
2753.4  
2396.4  
2153.3  
2146.8  
2127.5  
1983.3  
1731.7  
1587.5  
1527.3  
1477.8  
1370.3  
1297.1  
1213.2  
*1120.7*  
1013.2  
965.9  
752.9  
507.7  
361.4  
268.9  
133.4  
0.0

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