

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: P951801

Luminaire Tested: **GALN-SB5D-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5D-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

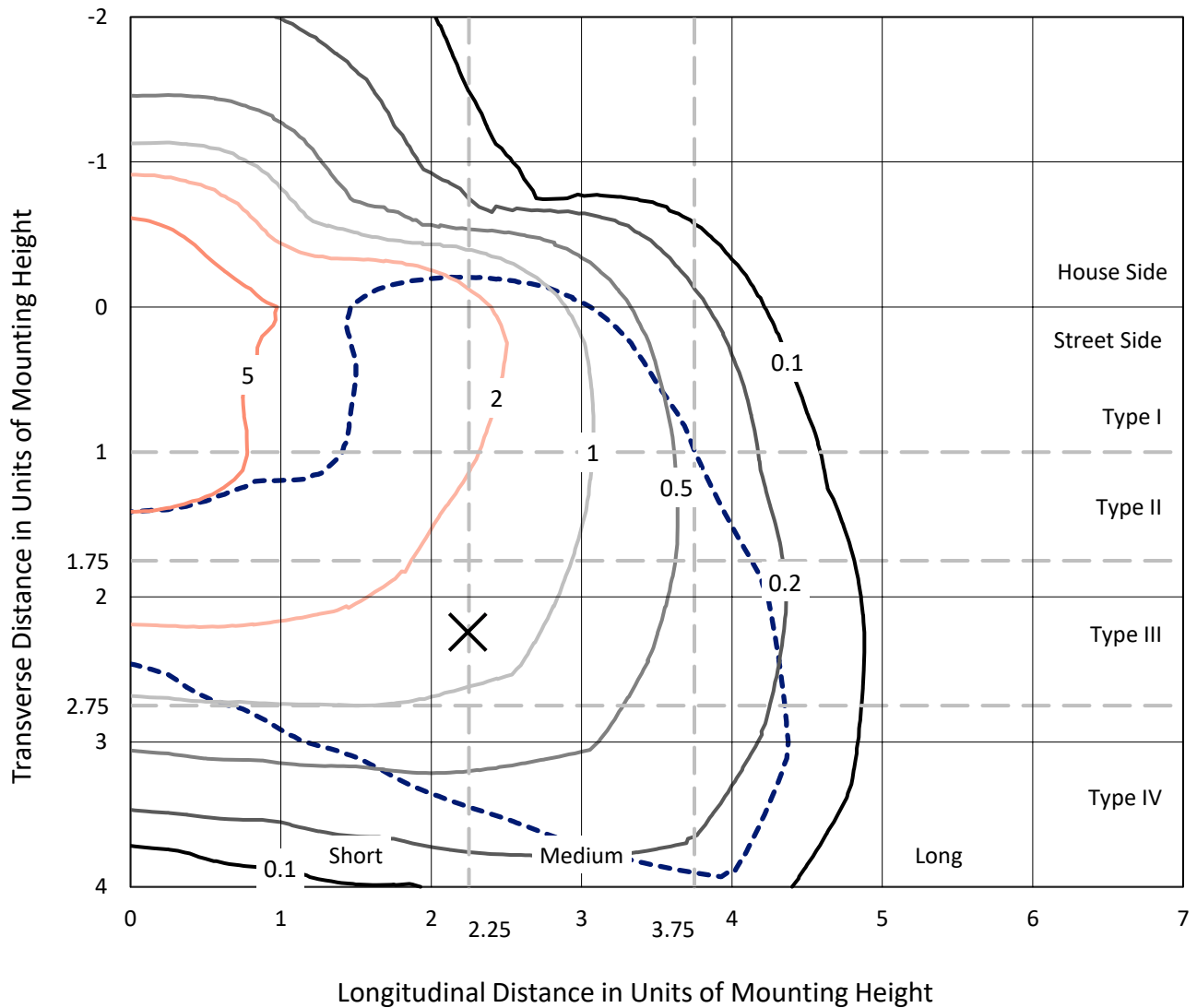
Lumens per Lamp: N/A  
Luminaire Lumens: 46099 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

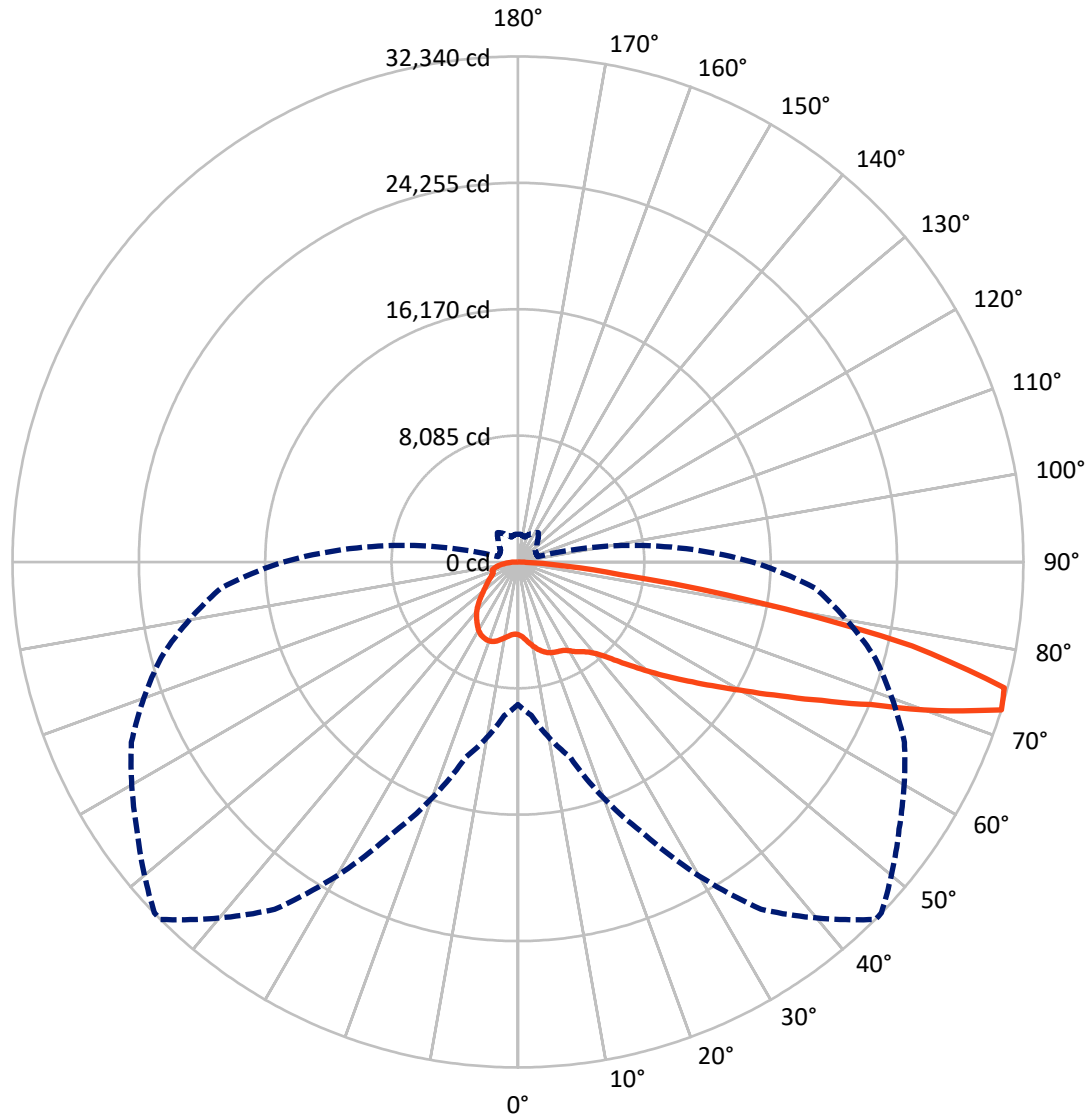
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10421.4	0.0	10421.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	35677.6	0.0	35677.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	46099.0	0.0	46099.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.3	1.0
10°-20°	1578.1	3.4
20°-30°	2745.3	6.0
30°-40°	3935.5	8.5
40°-50°	5541.4	12.0
50°-60°	8487.8	18.4
60°-70°	12295.8	26.7
70°-80°	9818.9	21.3
80°-90°	1222.9	2.7
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°	46099.0	100.0
0°-180°	46099.0	100.0



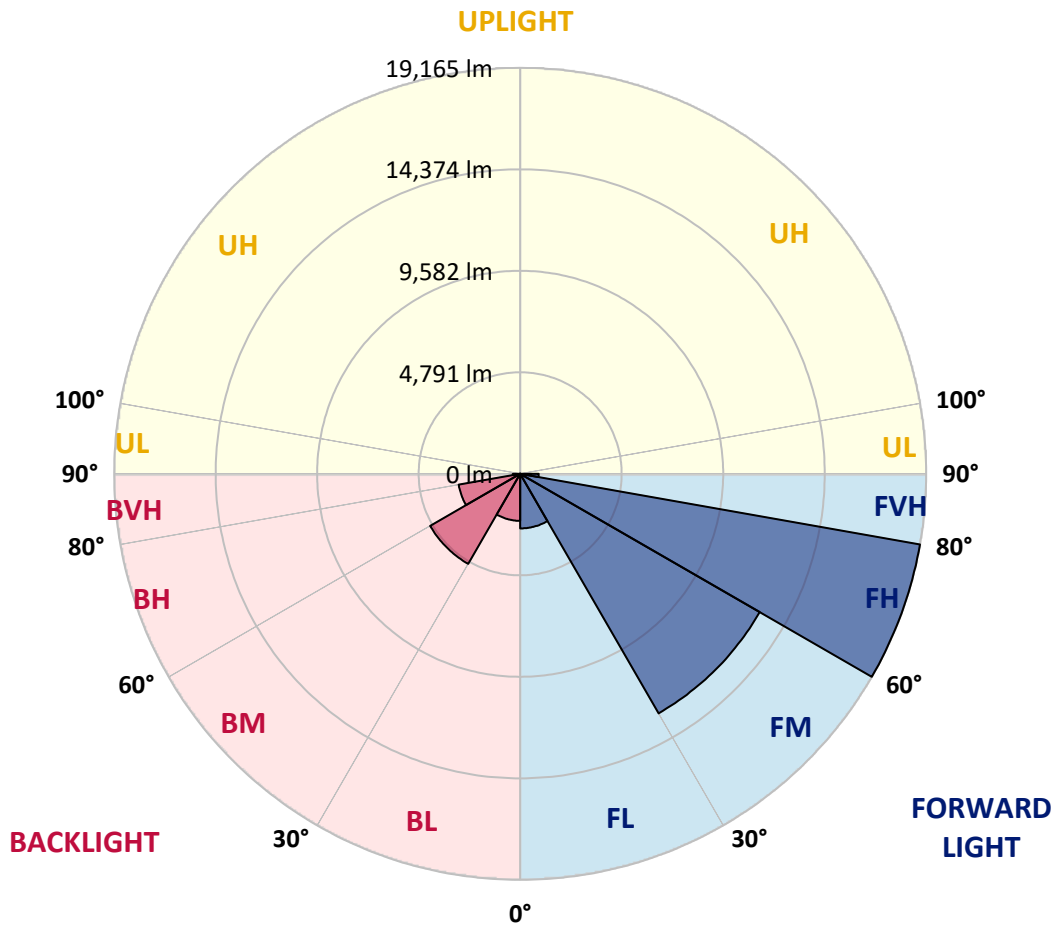
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2577.9	5.6			
FM (30°-60°)	13057.6	28.3			
FH (60°-80°)	19164.7	41.6			G5
FVH (80°-90°)	877.3	1.9			G5
BL (0°-30°)	2218.8	4.8	B3/2500		
BM (30°-60°)	4907.0	10.6	B3/5000		
BH (60°-80°)	2950.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	345.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5
2.5°	4832.6	4864.2	4835.1	4808.3	4796.2	4764.6	4762.2	4742.8	4730.6	4696.6
5°	5170.2	5211.5	5162.9	5109.5	5060.9	4983.2	4973.5	4917.6	4854.5	4781.6
7.5°	5551.4	5587.9	5532.0	5451.9	5366.9	5238.2	5235.7	5133.8	5034.2	4910.3
10°	5884.1	5932.7	5857.4	5748.2	5641.3	5495.6	5478.6	5362.0	5235.7	5075.5
12.5°	6178.0	6212.0	6139.1	6005.6	5881.7	5736.0	5714.2	5585.4	5444.6	5262.5
15°	6411.1	6454.8	6357.7	6214.4	6083.3	5940.0	5920.6	5804.0	5663.2	5471.3
17.5°	6564.1	6600.5	6501.0	6340.7	6214.4	6095.4	6080.9	5983.7	5859.9	5665.6
20°	6622.4	6661.3	6556.8	6394.1	6277.6	6185.3	6178.0	6107.6	6022.6	5845.3
22.5°	6680.7	6717.1	6581.1	6411.1	6309.1	6250.8	6248.4	6202.3	6168.3	6022.6
25°	6916.2	6926.0	6743.8	6498.5	6352.8	6301.8	6299.4	6297.0	6311.6	6197.4
27.5°	7120.2	7117.8	6962.4	6731.7	6505.8	6399.0	6396.6	6420.8	6467.0	6372.3
30°	7418.9	7392.2	7207.7	6967.2	6760.8	6595.7	6581.1	6559.3	6595.7	6520.4
32.5°	8052.8	7967.8	7669.1	7241.7	6972.1	6845.8	6826.4	6690.4	6705.0	6658.8
35°	8961.0	8849.3	8451.0	7761.3	7234.4	7054.7	7044.9	6872.5	6843.4	6802.1
37.5°	10041.7	9903.2	9439.4	8514.2	7686.1	7297.5	7282.9	7127.5	7008.5	6964.8
40°	11127.2	10952.3	10568.6	9432.1	8351.5	7703.1	7656.9	7421.4	7285.4	7212.5
42.5°	12181.1	12035.4	11707.6	10461.8	9172.3	8295.6	8193.6	7790.5	7688.5	7620.5
45°	13113.7	12982.5	12742.1	11561.9	10133.9	9101.9	9002.3	8344.2	8312.6	8312.6
47.5°	13871.3	13842.2	13587.2	12683.8	11268.0	10019.8	9847.4	9114.0	9199.0	9330.1
50°	14711.6	14631.4	14359.5	13788.8	12601.3	11071.3	10930.5	10058.7	10376.8	10736.2
52.5°	15483.8	15527.5	15224.0	14939.9	14106.9	12244.3	11996.6	11173.3	11860.6	12455.5
55°	16277.9	16280.4	16195.4	16156.5	15685.4	13541.1	13269.1	12513.8	13606.6	14344.9
57.5°	17023.5	17028.3	17154.6	17497.0	17516.4	15037.0	14728.6	14160.3	15547.0	16299.8
60°	17688.9	17722.9	18067.7	18869.1	19126.5	16751.5	16460.1	16105.5	17552.9	18310.6
62.5°	17912.3	18036.1	18803.5	19942.5	20717.2	18854.5	18568.0	18356.7	19660.8	20365.0
65°	17533.4	17817.6	19301.4	20828.9	22353.9	21353.4	21069.3	20838.6	21851.2	22514.2
67.5°	16603.3	16970.0	19272.2	21759.0	24340.4	24359.8	24095.1	23553.6	24199.6	24454.5
70°	14153.0	14701.9	17574.7	22106.2	26620.7	28471.2	28216.2	26822.3	26543.0	25309.4
72.5°	9118.8	9857.1	12941.2	19247.9	27128.3	32339.7	32325.2	29772.9	27283.7	23648.3
75°	3327.0	3778.7	6012.9	12081.6	22771.6	32143.0	32237.7	29267.7	24906.2	18266.8
77.5°	1211.8	1325.9	1962.2	4643.2	14004.9	25790.2	25986.9	23398.2	17727.7	9167.4
80°	636.3	699.4	1005.4	1801.9	6000.7	15316.3	15624.7	13905.3	8332.0	2761.2
82.5°	352.1	381.3	563.4	978.7	2702.9	6549.5	6734.1	5493.2	2931.1	1170.5
85°	189.4	201.6	264.7	534.3	1321.1	2270.6	2321.6	1641.6	1168.1	687.3
87.5°	55.9	68.0	87.4	170.0	517.3	510.0	522.1	325.4	461.4	347.3
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°
4650.5	0°	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5	4650.5
4686.9	2.5°	4672.3	4665.1	4638.3	4626.2	4611.6	4609.2	4621.4	4623.8	4626.2	4628.6
4740.3	5°	4716.1	4691.8	4667.5	4652.9	4657.8	4660.2	4684.5	4701.5	4713.6	4723.3
4839.9	7.5°	4801.1	4781.6	4740.3	4737.9	4745.2	4767.1	4798.6	4837.5	4859.3	4876.3
4968.6	10°	4927.3	4890.9	4842.3	4849.6	4864.2	4895.8	4961.3	4992.9	5029.3	5060.9
5126.5	12.5°	5056.0	5024.5	4968.6	4973.5	4997.8	5053.6	5116.8	5155.6	5179.9	5204.2
5296.5	15°	5223.6	5167.8	5107.0	5107.0	5150.8	5211.5	5240.6	5272.2	5286.7	5313.5
5478.6	17.5°	5396.0	5323.2	5243.0	5238.2	5291.6	5320.7	5337.7	5342.6	5347.5	5376.6
5655.9	20°	5568.4	5488.3	5374.2	5364.5	5376.6	5371.7	5369.3	5364.5	5371.7	5408.2
5838.0	22.5°	5738.4	5646.2	5488.3	5444.6	5410.6	5364.5	5362.0	5359.6	5364.5	5400.9
6034.7	25°	5937.6	5825.9	5614.6	5483.5	5369.3	5306.2	5313.5	5315.9	5320.7	5349.9
6238.7	27.5°	6153.7	6029.9	5731.2	5471.3	5264.9	5221.2	5209.0	5216.3	5233.3	5279.5
6442.7	30°	6369.8	6224.1	5838.0	5422.7	5133.8	5073.0	5034.2	5051.2	5104.6	5150.8
6620.0	32.5°	6566.5	6420.8	5923.0	5315.9	4966.2	4871.5	4820.5	4842.3	4895.8	4912.8
6816.7	35°	6797.2	6632.1	5959.4	5145.9	4784.1	4638.3	4570.4	4538.8	4565.5	4548.5
7047.4	37.5°	7054.7	6882.2	5954.6	4922.5	4570.4	4402.8	4308.1	4189.1	4133.2	4074.9
7387.4	40°	7435.9	7188.2	5896.3	4652.9	4305.7	4152.7	3982.7	3781.1	3654.8	3540.7
7936.2	42.5°	7955.6	7613.2	5789.4	4356.6	4007.0	3863.7	3633.0	3397.4	3198.3	3008.9
8769.2	45°	8730.3	8169.3	5655.9	4040.9	3684.0	3543.1	3293.0	3028.3	2802.4	2559.6
9951.8	47.5°	9847.4	8917.3	5529.6	3681.5	3344.0	3215.3	2989.4	2744.2	2477.0	2241.5
11661.4	50°	11382.2	9990.7	5413.0	3331.8	3008.9	2911.7	2732.0	2481.9	2212.3	2022.9
13664.9	52.5°	13334.6	11450.2	5364.5	2994.3	2695.6	2659.2	2515.9	2282.7	2027.8	1867.5
16001.1	55°	15576.1	13196.2	5364.5	2671.3	2421.2	2433.3	2333.7	2117.6	1896.6	1753.3
18410.1	57.5°	17863.7	14964.1	5267.3	2372.6	2188.0	2239.0	2175.9	1986.5	1787.3	1639.2
20943.0	60°	19971.6	16445.5	4873.9	2100.6	1981.6	2061.8	2020.5	1857.8	1614.9	1491.1
23060.6	62.5°	21591.4	17280.9	4116.2	1884.5	1811.6	1903.9	1882.1	1687.8	1583.4	1532.4
24799.4	65°	22402.5	17144.9	3147.3	1692.6	1668.3	1811.6	1765.5	1758.2	1675.6	1617.4
25365.2	67.5°	21904.7	15974.4	2282.7	1551.8	1585.8	1726.6	1903.9	1933.1	1780.1	1665.9
23772.1	70°	19721.5	13856.8	1699.9	1418.2	1481.4	1729.1	2171.0	2022.9	1746.1	1612.5
19065.8	72.5°	15003.0	10333.1	1318.7	1277.4	1345.4	1741.2	2290.0	1981.6	1648.9	1782.5
11877.6	75°	8579.7	5672.9	1058.8	1104.9	1175.4	1627.1	2229.3	1874.8	1573.6	1636.8
4706.3	77.5°	3271.1	2180.8	874.2	935.0	944.7	1420.6	2132.2	1867.5	1498.4	1461.9
1410.9	80°	1134.1	852.4	723.7	743.1	731.0	1262.8	2044.8	1624.6	1226.4	1097.7
582.8	82.5°	463.8	425.0	573.1	548.8	519.7	981.1	1651.3	1328.4	1003.0	886.4
281.7	85°	201.6	269.6	378.8	332.7	301.1	680.0	1323.5	1124.4	847.5	731.0
92.3	87.5°	41.3	102.0	160.3	150.6	155.4	454.1	939.8	799.0	599.8	449.3
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°  
4650.5  
4638.3  
4728.2  
4881.2  
5053.6  
5213.9  
5323.2  
5386.3  
5422.7  
5425.2  
5388.7  
5325.6  
5201.8  
4973.5  
4601.9  
4111.4  
3548.0  
2991.9  
2530.5  
2214.8  
2010.8  
1855.3  
1738.8  
1614.9  
1471.6  
1515.4  
1597.9  
1646.5  
1590.6  
*1767.9*  
1636.8  
1333.2  
1061.2  
876.7  
728.5  
352.1  
0.0

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