

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: P951831

Luminaire Tested: **GALN-SB5D-840-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-840-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

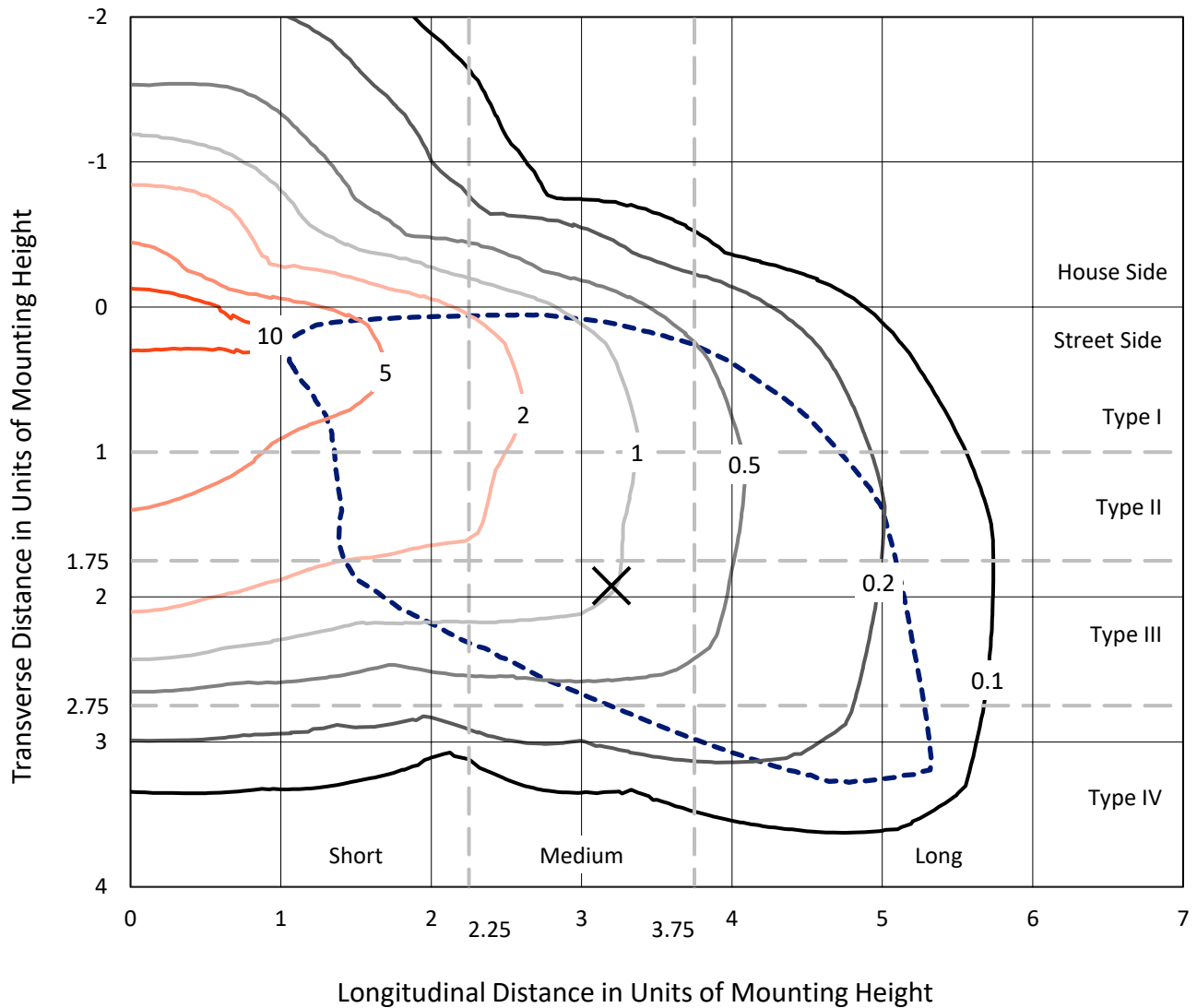
Lumens per Lamp: N/A  
Luminaire Lumens: 48054 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

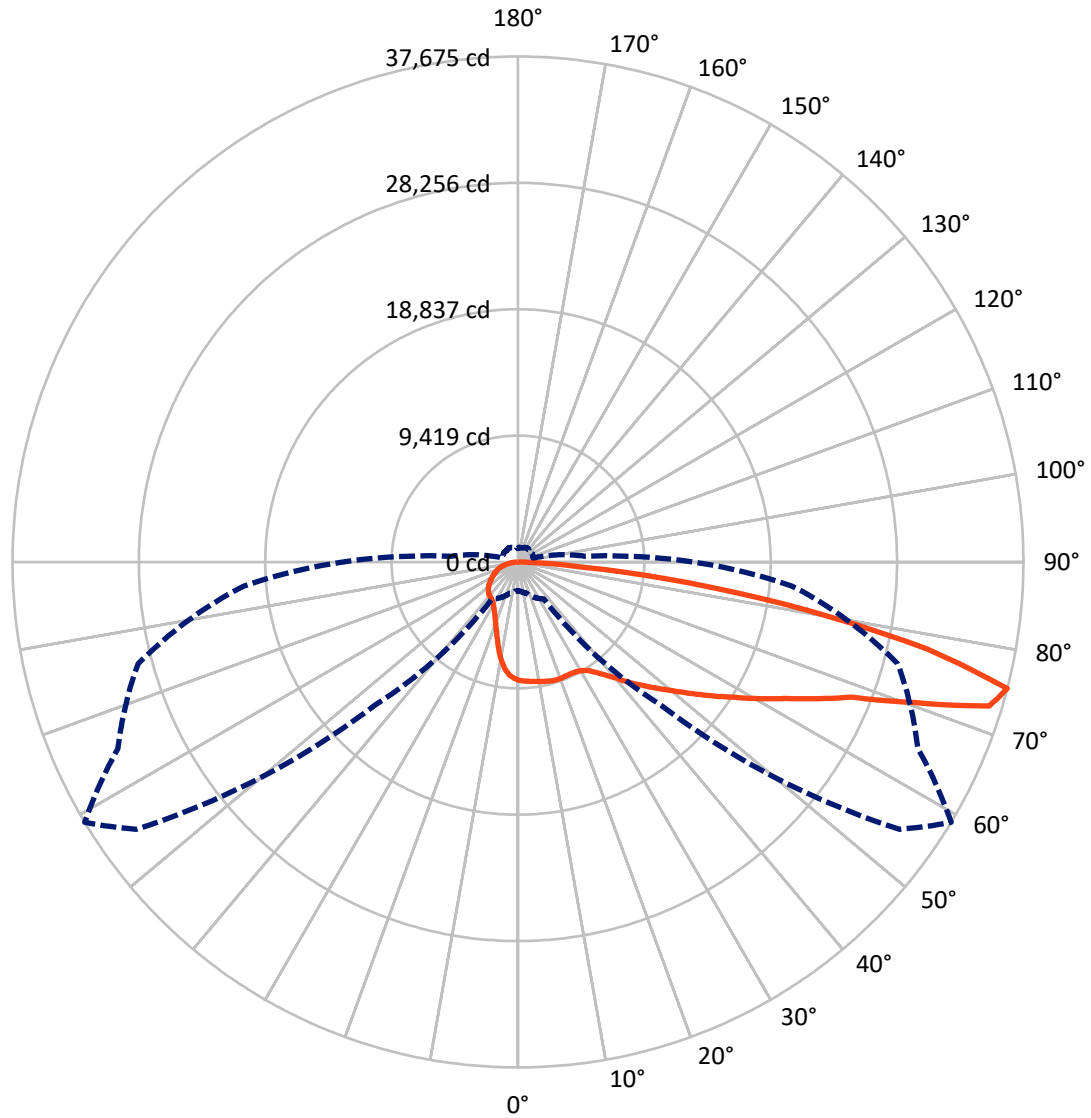
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9012.9	0.0	9012.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	39041.2	0.0	39041.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	48054.0	0.0	48054.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	790.9	1.6
10°-20°	2021.5	4.2
20°-30°	3070.5	6.4
30°-40°	4564.3	9.5
40°-50°	6787.9	14.1
50°-60°	9213.7	19.2
60°-70°	11248.4	23.4
70°-80°	8827.6	18.4
80°-90°	1529.2	3.2
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°	48054.0	100.0
0°-180°	48054.0	100.0



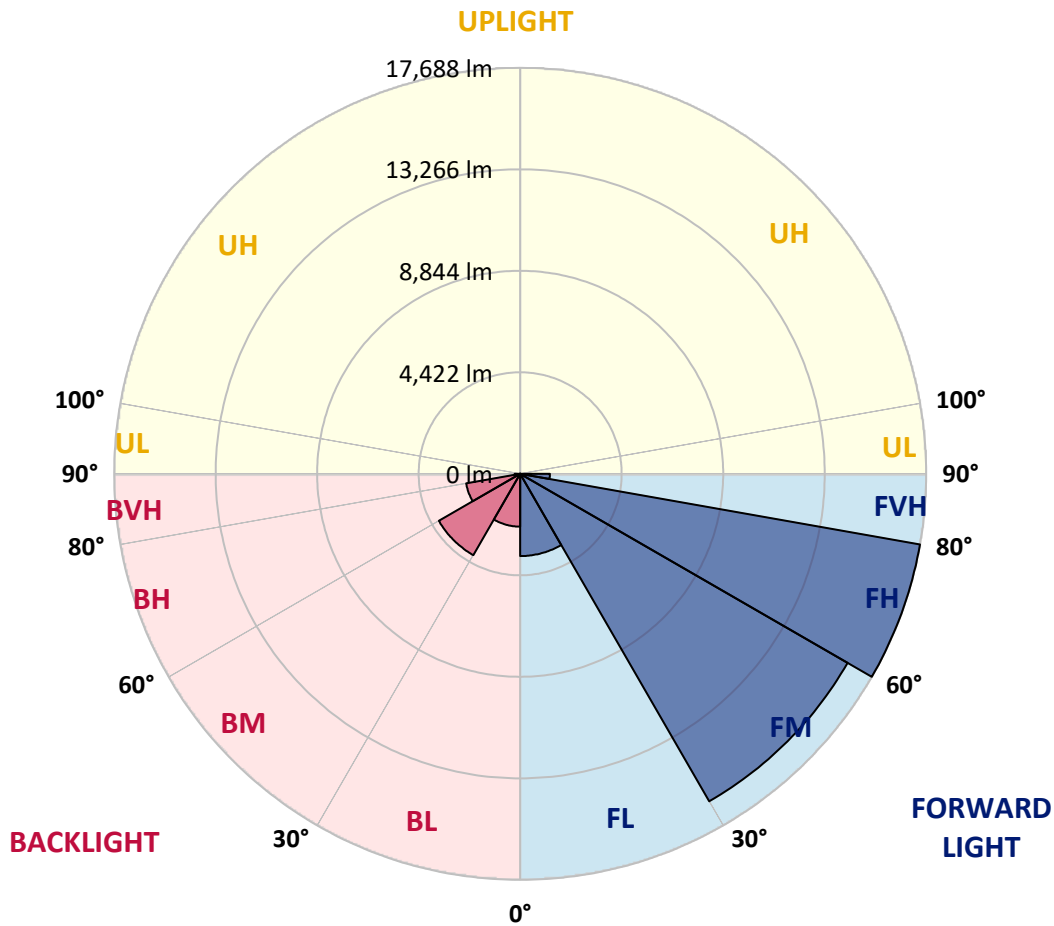
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3582.9	7.5			
FM (30°-60°)	16474.9	34.3			
FH (60°-80°)	17688.2	36.8			G5
FVH (80°-90°)	1295.1	2.7			G5
BL (0°-30°)	2300.0	4.8	B3/2500		
BM (30°-60°)	4090.9	8.5	B3/5000		
BH (60°-80°)	2387.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	234.1	0.5			G3/500
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2
2.5°	8895.2	8864.2	8895.2	8882.2	8877.1	8866.7	8869.3	8887.4	8877.1	8890.0
5°	8835.7	8817.6	8848.6	8840.9	8874.5	8879.7	8913.3	8933.9	8946.9	8949.5
7.5°	8737.5	8719.4	8763.3	8799.5	8871.9	8892.6	8962.4	8996.0	9014.1	9045.1
10°	8378.2	8370.4	8479.0	8616.0	8786.6	8892.6	8998.6	9055.4	9083.9	9166.6
12.5°	7742.2	7752.6	7894.8	8158.4	8499.7	8840.9	9039.9	9122.7	9166.6	9270.0
15°	7134.7	7132.2	7287.3	7569.0	8047.3	8613.4	9060.6	9202.8	9277.8	9430.3
17.5°	6783.2	6772.8	6881.4	7096.0	7540.6	8264.4	9008.9	9246.7	9407.0	9598.3
20°	6718.6	6697.9	6754.7	6860.7	7176.1	7881.8	8874.5	9246.7	9510.4	9758.6
22.5°	6953.8	6920.2	6896.9	6884.0	7023.6	7566.5	8722.0	9215.7	9662.9	9988.6
25°	7426.9	7375.2	7256.2	7139.9	7098.6	7424.3	8587.5	9208.0	9890.4	10298.9
27.5°	8192.0	8127.4	7887.0	7607.8	7357.1	7496.7	8528.1	9254.5	10141.2	10627.2
30°	9140.8	9071.0	8768.5	8339.4	7889.6	7765.5	8603.1	9391.5	10461.7	11064.0
32.5°	9991.2	9913.7	9655.2	9218.3	8610.8	8230.8	8840.9	9652.6	10965.8	11671.5
35°	10746.1	10655.6	10422.9	10019.7	9494.9	8884.8	9270.0	10115.3	11681.9	12659.0
37.5°	11485.4	11379.4	11126.1	10699.5	10332.5	9756.0	9862.0	10709.9	12633.2	13858.5
40°	12312.6	12160.1	11852.5	11431.1	11074.4	10777.1	10640.1	11438.9	13600.0	15197.5
42.5°	13114.0	12969.2	12602.1	12242.8	11795.6	11710.3	11542.3	12291.9	14657.3	16668.4
45°	13977.4	13804.2	13359.6	12904.6	12622.8	12330.7	12416.0	13145.0	15693.9	18167.8
47.5°	14786.5	14592.6	14067.9	13561.2	13406.1	12852.9	13217.4	14083.4	16771.8	19687.8
50°	15223.4	15032.1	14595.2	14137.7	14016.2	13496.6	14086.0	15114.8	17901.5	21202.6
52.5°	15587.9	15381.1	14809.8	14556.4	14520.2	14197.1	15156.2	16293.6	19031.2	22541.7
55°	15975.6	15745.6	15016.6	14789.1	14954.5	14983.0	16425.4	17630.1	20225.5	23847.1
57.5°	16422.8	16130.7	15215.6	14985.6	15378.5	15903.3	17883.4	19015.7	21399.1	25056.9
60°	16844.2	16549.5	15598.2	15298.4	15836.0	16970.9	19555.9	20693.4	22727.8	26134.9
62.5°	16926.9	16683.9	15903.3	15900.7	16456.5	18216.9	21536.1	22386.6	23888.5	27199.9
65°	15494.8	15342.3	14879.6	15877.4	17345.7	20010.9	23741.1	24552.8	25364.6	28130.6
67.5°	11793.0	11813.7	11780.1	13706.0	16627.1	22588.2	26933.7	26871.6	27187.0	29174.9
70°	5392.4	5513.9	6304.9	9461.3	13320.8	22885.5	32212.4	31408.4	29474.8	30526.9
72.5°	2913.4	3006.4	3329.5	4583.3	8008.5	20347.0	36157.2	36728.4	32517.4	31436.8
75°	2137.8	2189.5	2414.4	2913.4	3363.2	15122.6	34743.1	37674.6	32897.4	29314.5
77.5°	1600.1	1623.4	1807.0	2308.5	1721.6	7972.3	27760.9	31201.6	28161.6	24084.9
80°	1160.7	1186.5	1323.5	1732.0	1207.2	2915.9	19062.2	21900.6	19287.1	15352.6
82.5°	801.4	811.7	871.2	1178.8	842.7	1132.3	10815.9	12842.5	10766.8	5387.3
85°	483.4	496.3	522.2	687.6	478.2	537.7	4668.6	4828.9	3218.4	1287.4
87.5°	199.0	212.0	232.7	289.5	188.7	149.9	770.3	966.8	602.3	377.4
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°
8820.2	0°	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2	8820.2
8846.1	2.5°	8833.1	8815.0	8765.9	8698.7	8636.7	8559.1	8525.5	8497.1	8471.2	8422.1
8915.9	5°	8887.4	8838.3	8706.5	8535.8	8342.0	8130.0	7923.2	7781.0	7659.5	7569.0
8996.0	7.5°	8970.1	8877.1	8636.7	8287.7	7843.1	7388.1	6977.1	6684.9	6465.2	6385.1
9109.7	10°	9055.4	8944.3	8525.5	7910.3	7142.5	6442.0	5896.5	5596.6	5420.9	5364.0
9244.2	12.5°	9156.3	8993.4	8352.3	7385.5	6359.2	5591.5	5115.8	4940.0	4849.6	4818.5
9409.6	15°	9303.6	9034.8	8091.2	6728.9	5612.2	4971.1	4663.4	4541.9	4495.4	4492.8
9580.2	17.5°	9414.8	9042.5	7685.4	6025.8	5038.3	4596.2	4342.9	4296.4	4327.4	4373.9
9748.2	20°	9538.8	8972.7	7152.8	5384.7	4635.0	4267.9	4161.9	4193.0	4267.9	4335.1
9970.6	22.5°	9626.7	8846.1	6509.2	4885.8	4286.0	4079.2	4074.0	4138.7	4180.0	4213.6
10231.6	25°	9704.3	8631.5	5826.7	4467.0	3999.1	3965.5	4022.3	4001.7	3973.2	4001.7
10492.7	27.5°	9761.2	8292.9	5216.6	4099.9	3797.4	3887.9	3854.3	3807.8	3805.2	3820.7
10800.4	30°	9743.1	7840.5	4715.1	3750.9	3655.3	3743.2	3663.0	3655.3	3647.5	3655.3
11263.1	32.5°	9743.1	7326.0	4330.0	3510.5	3564.8	3531.2	3523.4	3505.3	3474.3	3471.7
11891.2	35°	9797.4	6811.6	3999.1	3381.3	3489.8	3409.7	3414.9	3370.9	3306.3	3275.3
12723.6	37.5°	9908.5	6398.0	3670.8	3319.2	3358.0	3355.4	3334.7	3259.8	3146.0	3047.8
13762.8	40°	10177.4	6276.5	3445.9	3290.8	3295.9	3327.0	3272.7	3127.9	2869.4	2709.1
14817.5	42.5°	10598.7	6480.7	3396.8	3221.0	3254.6	3285.6	3179.6	2843.6	2660.0	2564.4
15923.9	45°	11133.8	6837.5	3502.7	3120.2	3156.4	3210.6	2895.3	2735.0	2652.3	2654.9
17020.0	47.5°	11811.1	7212.3	3699.2	3032.3	3014.2	3045.2	2706.6	2608.3	2494.6	2523.0
18072.1	50°	12594.4	7592.3	3885.3	2913.4	2856.5	2755.7	2585.1	2492.0	2347.2	2280.0
19088.0	52.5°	13442.3	7959.4	3960.3	2768.6	2685.9	2569.5	2502.3	2388.6	2212.8	2101.6
20047.1	55°	14246.2	8292.9	3877.6	2595.4	2515.3	2424.8	2414.4	2344.6	2155.9	2000.8
20900.2	57.5°	15006.2	8572.0	3670.8	2419.6	2342.1	2287.8	2357.6	2324.0	2086.1	1887.1
21706.7	60°	15649.9	8763.3	3370.9	2241.2	2187.0	2158.5	2264.5	2254.2	1987.9	1765.6
22430.5	62.5°	16161.8	8838.3	3040.0	2070.6	2057.7	2006.0	2135.3	2135.3	1863.8	1646.7
23066.4	65°	16562.4	8765.9	2704.0	1902.6	1928.5	1850.9	1977.6	1962.1	1732.0	1540.7
23798.0	67.5°	16916.6	8528.1	2331.7	1737.2	1796.6	1698.4	1812.1	1775.9	1587.2	1434.7
24431.3	70°	17074.3	7974.9	1907.8	1571.7	1644.1	1548.4	1646.7	1579.5	1424.4	1321.0
23736.0	72.5°	15807.6	6628.1	1501.9	1398.5	1460.6	1383.0	1468.3	1390.8	1248.6	1202.1
20496.9	75°	13077.8	4973.6	1155.5	1209.8	1256.3	1196.9	1253.8	1196.9	1067.6	1101.2
15140.7	77.5°	9497.5	3358.0	884.1	1010.8	1031.4	1000.4	1049.5	984.9	868.6	860.8
7545.8	80°	4722.9	1967.2	692.8	798.8	791.0	770.3	827.2	796.2	698.0	739.3
2037.0	82.5°	1367.5	842.7	504.1	561.0	545.4	550.6	592.0	607.5	909.9	902.2
633.3	85°	429.1	330.9	302.5	312.8	297.3	305.0	349.0	692.8	641.1	374.8
196.5	87.5°	111.2	113.7	75.0	80.1	82.7	98.2	111.2	421.4	201.6	131.8
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°  
8820.2  
8398.8  
7494.1  
6245.5  
5276.1  
4826.3  
4503.2  
4392.0  
4358.4  
4231.7  
4019.8  
3846.6  
3683.7  
3505.3  
3306.3  
3081.4  
2729.8  
2564.4  
2667.8  
2595.4  
2298.1  
2099.1  
2000.8  
1876.7  
1757.8  
1638.9  
1530.4  
1424.4  
1300.3  
1163.3  
*1005.6*  
822.0  
731.6  
922.9  
405.9  
139.6  
0.0

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