

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: P951839

Luminaire Tested: **GALN-SB5D-840-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951839  
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-SB5D-840-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

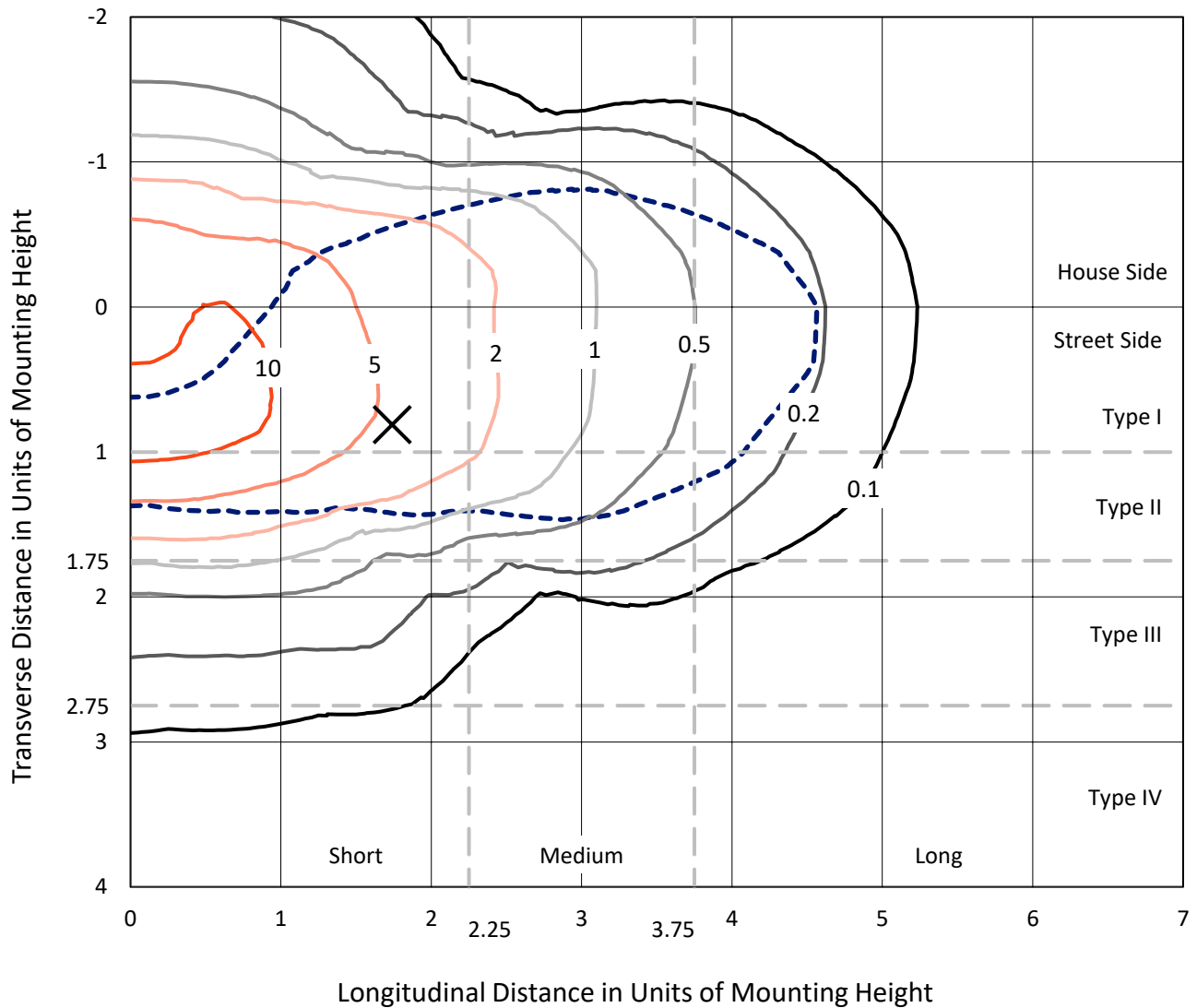
Lumens per Lamp: N/A  
Luminaire Lumens: 49827 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

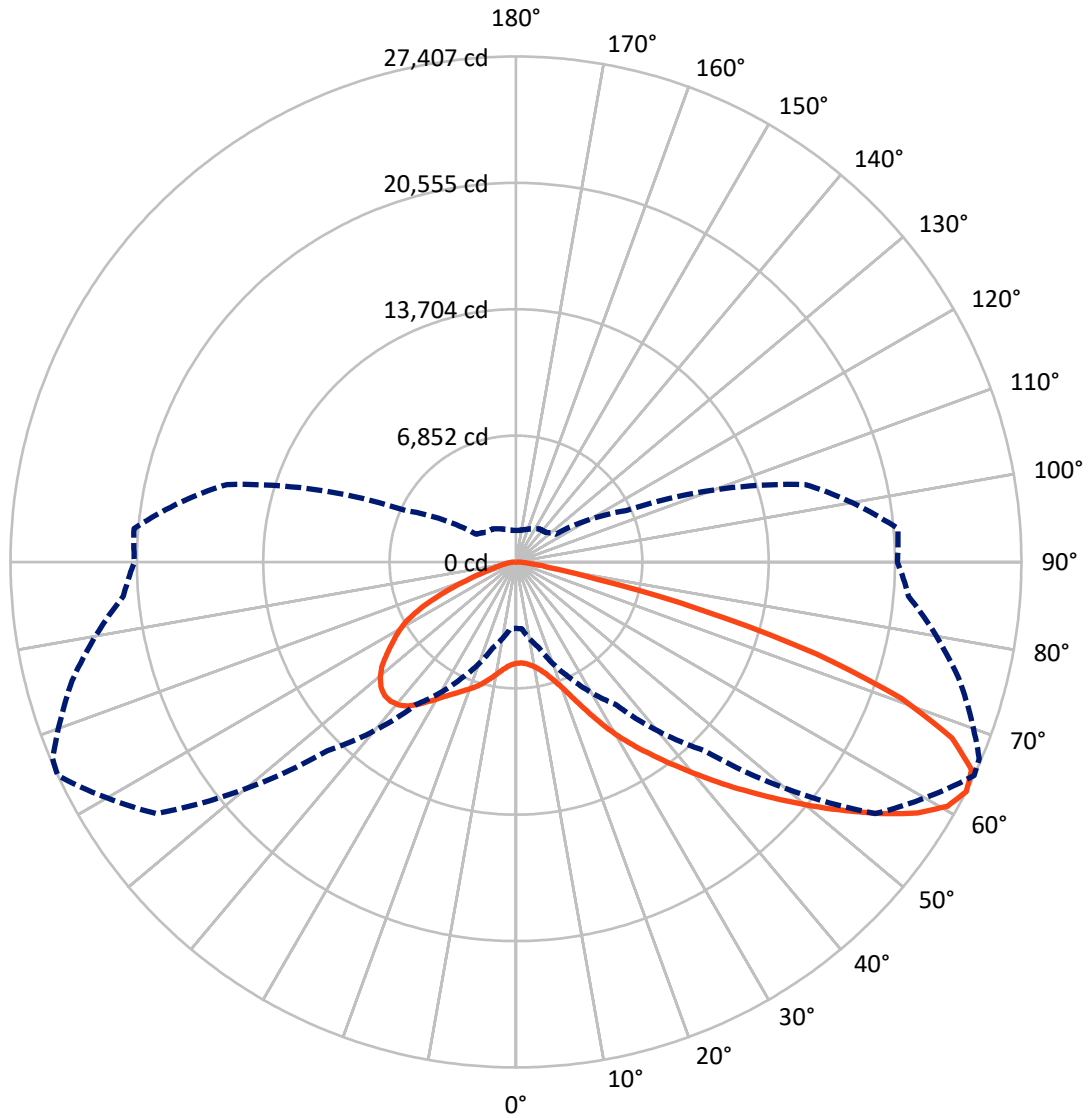
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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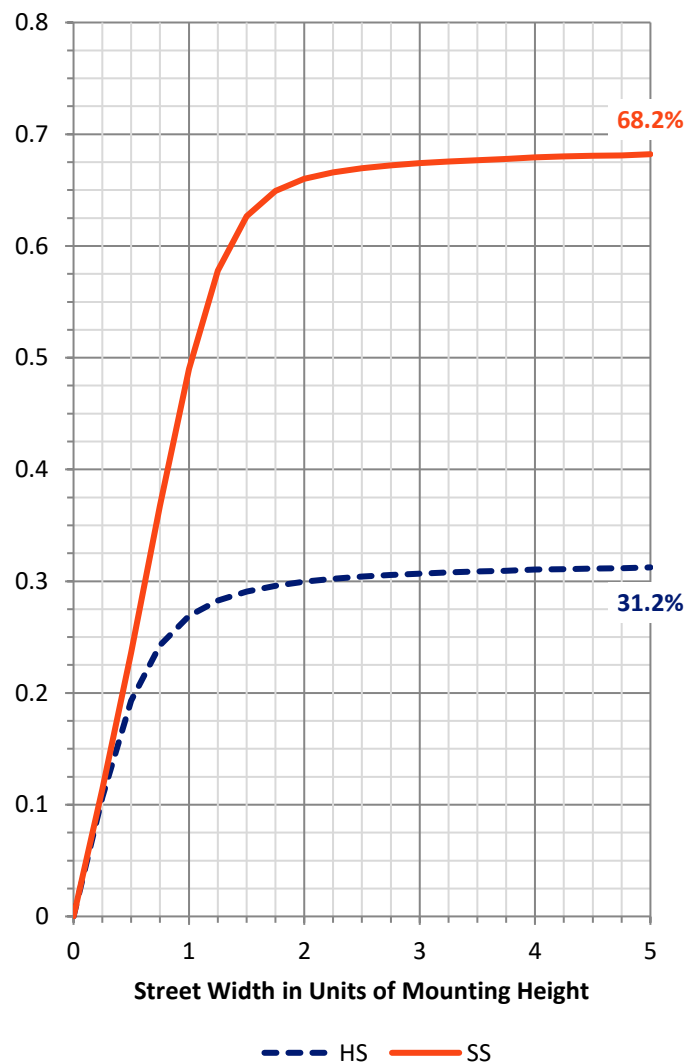
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15723.2	0.0	15723.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	34103.8	0.0	34103.8
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	49827.0	0.0	49827.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.4	1.1
10°-20°	1856.3	3.7
20°-30°	3763.9	7.6
30°-40°	6513.4	13.1
40°-50°	9856.8	19.8
50°-60°	11556.5	23.2
60°-70°	9688.7	19.4
70°-80°	5349.0	10.7
80°-90°	694.8	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°	49827.0	100.0
0°-180°	49827.0	100.0

**Coefficient of Utilization**

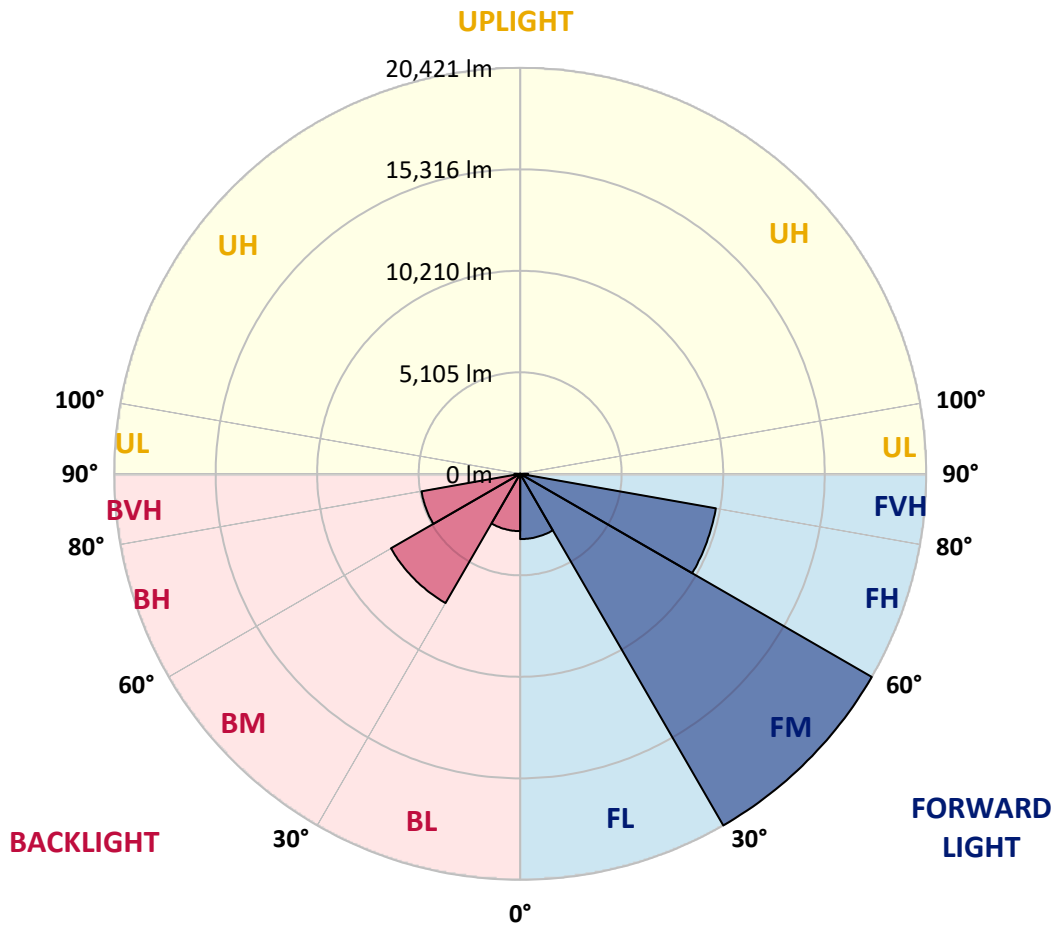


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3284.3	6.6			
FM (30°-60°)	20420.7	41.0			
FH (60°-80°)	9993.8	20.1			G4/12000
FVH (80°-90°)	405.0	0.8			G3/500
BL (0°-30°)	2883.5	5.8	B4/5000		
BM (30°-60°)	7506.0	15.1	B4/8500		
BH (60°-80°)	5043.9	10.1	B5		G5
BVH (80°-90°)	289.9	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°	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7
2.5°	5454.5	5439.0	5451.9	5451.9	5457.1	5454.5	5472.6	5477.8	5485.5	5501.1
5°	5400.2	5397.7	5420.9	5441.6	5462.3	5480.4	5503.6	5537.3	5542.4	5560.5
7.5°	5382.1	5366.6	5402.8	5428.7	5477.8	5521.7	5583.8	5640.7	5663.9	5671.7
10°	5521.7	5495.9	5529.5	5545.0	5586.4	5630.3	5702.7	5793.2	5819.0	5850.0
12.5°	5759.6	5731.1	5780.2	5803.5	5842.3	5881.1	5930.2	6018.1	6031.0	6087.9
15°	6085.3	6051.7	6082.7	6111.1	6175.8	6212.0	6261.1	6346.4	6346.4	6390.3
17.5°	6527.3	6483.4	6506.7	6517.0	6558.4	6612.6	6695.4	6770.3	6809.1	6793.6
20°	7186.5	7132.2	7132.2	7080.5	7065.0	7109.0	7217.6	7321.0	7362.3	7282.2
22.5°	8176.6	8099.1	8055.1	7879.3	7809.5	7814.7	7923.3	8050.0	8083.6	7941.4
25°	9435.6	9314.1	9254.6	8996.1	8838.4	8701.4	8786.7	8949.6	8996.1	8820.3
27.5°	10694.5	10702.2	10645.4	10335.2	10074.1	9823.3	9779.4	9950.0	9999.1	9800.1
30°	12460.1	12276.6	12168.0	11795.7	11423.5	11071.9	10891.0	10960.8	10973.7	10735.9
32.5°	13982.7	13936.2	13703.5	13377.8	12899.6	12348.9	12046.5	11935.3	11914.7	11576.0
35°	15717.3	15691.5	15445.9	15058.1	14541.1	13775.9	13230.5	12912.5	12886.6	12411.0
37.5°	17480.3	17480.3	17239.9	16816.0	16280.9	15324.4	14494.6	13990.5	13907.8	13287.3
40°	18886.6	18801.3	18845.3	18666.9	18054.2	17038.3	15898.3	15166.7	15055.5	14311.0
42.5°	19685.4	19657.0	19920.7	20119.7	19869.0	19057.2	17444.1	16441.1	16286.0	15438.1
45°	19863.8	19832.8	20303.3	21032.2	21383.8	21050.3	19124.5	17782.8	17594.1	16616.9
47.5°	19452.8	19390.7	20080.9	21231.3	22358.4	22945.2	20944.4	19238.2	18964.2	17764.7
50°	18217.1	18157.6	19202.0	20729.8	22686.7	24232.6	22919.4	20781.5	20362.7	18995.2
52.5°	15531.2	15559.6	17196.0	19295.1	22255.0	25034.0	24620.3	22407.5	21903.4	20254.1
55°	12098.2	12160.2	14171.4	16482.5	20528.2	24912.5	25781.0	24082.6	23581.1	21438.1
57.5°	8662.6	8936.6	10821.2	13109.0	17211.5	22986.6	26034.4	25675.1	25189.1	22730.6
60°	5614.8	5663.9	7602.7	9908.6	13106.4	19563.9	25520.0	26882.3	26502.3	24049.0
62.5°	3598.4	3632.0	4813.4	6930.6	9433.0	14473.9	23787.9	27407.1	27290.7	24920.2
65°	2644.5	2618.7	3233.9	4580.8	6354.1	8926.3	20424.8	27153.7	27383.8	25465.7
67.5°	2207.7	2171.5	2473.9	3171.9	4681.6	5069.4	15112.4	25507.0	26349.8	25403.6
70°	2011.2	1980.2	2163.7	2355.0	3652.7	3394.2	7618.2	22174.9	23472.6	24697.9
72.5°	1703.6	1649.3	1900.0	2091.3	2841.0	2603.2	3148.6	17033.1	18615.2	22435.9
75°	1321.0	1284.8	1499.3	1840.6	2135.3	2031.9	1990.5	10342.9	12069.8	17351.1
77.5°	1047.0	997.8	1194.3	1434.7	1920.7	1533.0	1450.2	4454.1	6165.4	11077.1
80°	788.5	744.5	907.4	1134.9	1476.1	1155.5	938.4	1817.3	2324.0	5612.2
82.5°	561.0	522.2	633.3	832.4	992.7	1036.6	576.5	1018.5	1145.2	2163.7
85°	359.3	336.1	424.0	522.2	630.8	667.0	351.6	532.5	584.2	891.9
87.5°	196.5	160.3	227.5	243.0	292.1	266.3	168.0	193.9	209.4	323.1
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°
5490.7	0°	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7
5501.1	2.5°	5511.4	5519.2	5545.0	5552.8	5570.9	5594.1	5609.6	5625.1	5625.1	5640.7
5583.8	5°	5586.4	5604.5	5658.7	5687.2	5733.7	5780.2	5808.7	5842.3	5863.0	5873.3
5715.6	7.5°	5731.1	5759.6	5837.1	5886.2	5966.4	6031.0	6074.9	6121.5	6131.8	6160.3
5899.2	10°	5927.6	5961.2	6049.1	6142.2	6237.8	6317.9	6359.3	6392.9	6405.8	6411.0
6134.4	12.5°	6152.5	6201.6	6315.4	6429.1	6529.9	6599.7	6610.1	6602.3	6566.1	6535.1
6423.9	15°	6429.1	6473.1	6599.7	6723.8	6822.0	6835.0	6770.3	6729.0	6685.0	6677.3
6747.1	17.5°	6760.0	6783.3	6899.6	7021.1	7028.8	6984.9	6889.3	6850.5	6809.1	6780.7
7168.4	20°	7145.2	7137.4	7220.1	7271.8	7217.6	7083.1	6938.4	6873.7	6832.4	6798.8
7685.5	22.5°	7605.3	7545.9	7535.5	7522.6	7377.8	7096.1	6899.6	6816.9	6752.2	6705.7
8406.7	25°	8274.9	8047.4	7889.7	7801.8	7476.1	7026.3	6775.5	6592.0	6470.5	6390.3
9288.2	27.5°	9112.4	8729.8	8331.7	8117.2	7476.1	6884.1	6475.6	6178.4	5979.3	5896.6
10141.3	30°	9911.2	9510.5	8923.7	8497.2	7458.0	6651.4	5992.2	5578.6	5346.0	5263.2
10870.3	32.5°	10593.7	10156.8	9551.9	8913.4	7414.0	6274.0	5392.5	4934.9	4710.0	4611.8
11591.5	35°	11227.0	10761.7	10182.6	9370.9	7297.7	5720.8	4733.3	4384.3	4133.6	3975.9
12325.7	37.5°	11875.9	11322.7	10779.8	9784.5	7088.3	5074.5	4226.6	3929.3	3634.6	3422.7
13106.4	40°	12581.6	11919.8	11418.3	10030.1	6744.5	4459.3	3833.7	3562.2	3249.5	3024.5
14006.0	42.5°	13406.2	12635.9	12129.2	10156.8	6274.0	4022.4	3577.8	3311.5	3016.8	2833.3
14970.2	45°	14267.1	13424.3	12778.1	10154.2	5749.2	3818.2	3495.0	3231.4	2905.6	2714.3
15960.3	47.5°	15169.3	14249.0	13339.0	9988.8	5294.3	3846.6	3448.5	3058.2	2698.8	2512.7
16960.7	50°	16074.1	15151.2	13881.9	9678.6	5100.4	3784.6	3275.3	2815.2	2391.2	2223.2
17899.1	52.5°	16971.1	16110.2	14349.8	9236.5	4903.9	3554.5	3053.0	2499.8	2264.5	2148.2
18868.5	55°	17873.3	17059.0	14859.1	8592.8	4412.7	3285.6	2680.7	2380.9	2163.7	2057.7
19817.3	57.5°	18778.1	18155.0	15342.5	7949.1	3794.9	2954.8	2476.5	2236.1	2062.9	1972.4
20610.9	60°	19719.0	19408.8	15841.4	7357.2	3184.8	2530.8	2326.6	2119.8	1944.0	1843.2
21373.5	62.5°	20688.4	20789.2	16231.7	6594.6	2623.9	2272.3	2192.2	1980.2	1809.6	1713.9
22004.2	65°	21665.6	22120.6	16487.7	5537.3	2127.5	2026.7	2047.4	1827.7	1654.5	1571.7
22467.0	67.5°	22402.3	23079.6	16415.3	4190.4	1744.9	1794.0	1866.4	1667.4	1504.5	1439.9
22392.0	70°	22485.1	22965.9	15701.8	2869.4	1460.6	1566.6	1664.8	1509.7	1341.7	1295.1
21337.3	72.5°	21383.8	21414.8	13713.9	1874.2	1235.7	1375.3	1452.8	1349.4	1186.6	1140.0
18666.9	75°	18496.3	17710.4	10068.9	1235.7	1034.0	1181.4	1253.8	1181.4	1023.7	1034.0
13967.2	77.5°	14013.7	12542.8	6113.7	878.9	863.4	992.7	1090.9	1039.2	904.8	1015.9
7023.7	80°	7220.1	6785.8	2727.3	656.6	682.5	793.6	897.0	829.8	716.1	682.5
1569.1	82.5°	1654.5	1923.3	1075.4	470.5	493.8	571.3	685.0	623.0	514.4	434.3
654.0	85°	579.1	633.3	475.7	294.7	289.5	356.7	465.3	416.2	349.0	279.2
276.6	87.5°	183.5	240.4	178.4	118.9	124.1	160.3	214.6	196.5	162.9	106.0
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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180°  
5490.7  
5640.7  
5878.5  
6149.9  
6398.1  
6535.1  
6677.3  
6783.3  
6801.4  
6721.2  
6421.3  
5937.9  
5312.3  
4660.9  
4027.6  
3479.5  
3068.5  
2869.4  
2745.4  
2538.6  
2233.5  
2148.2  
2047.4  
1956.9  
1835.4  
*1711.3*  
1569.1  
1442.5  
1297.7  
1137.4  
997.8  
894.4  
623.0  
429.1  
294.7  
111.2  
0.0

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