

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: P951138

Luminaire Tested: **GALN-SB5B-850-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951138  
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-SB5B-850-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

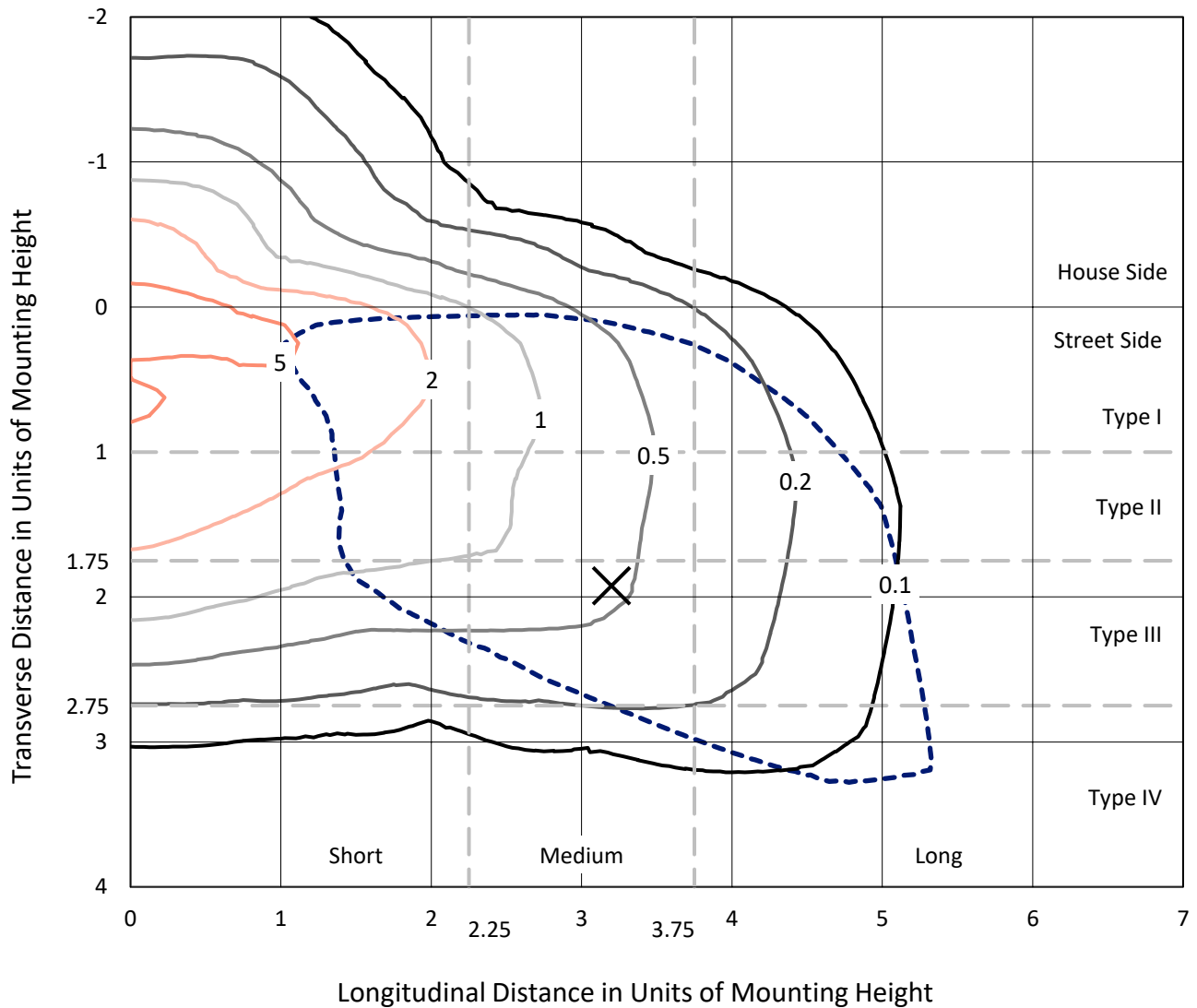
Lumens per Lamp: N/A  
Luminaire Lumens: 26591 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

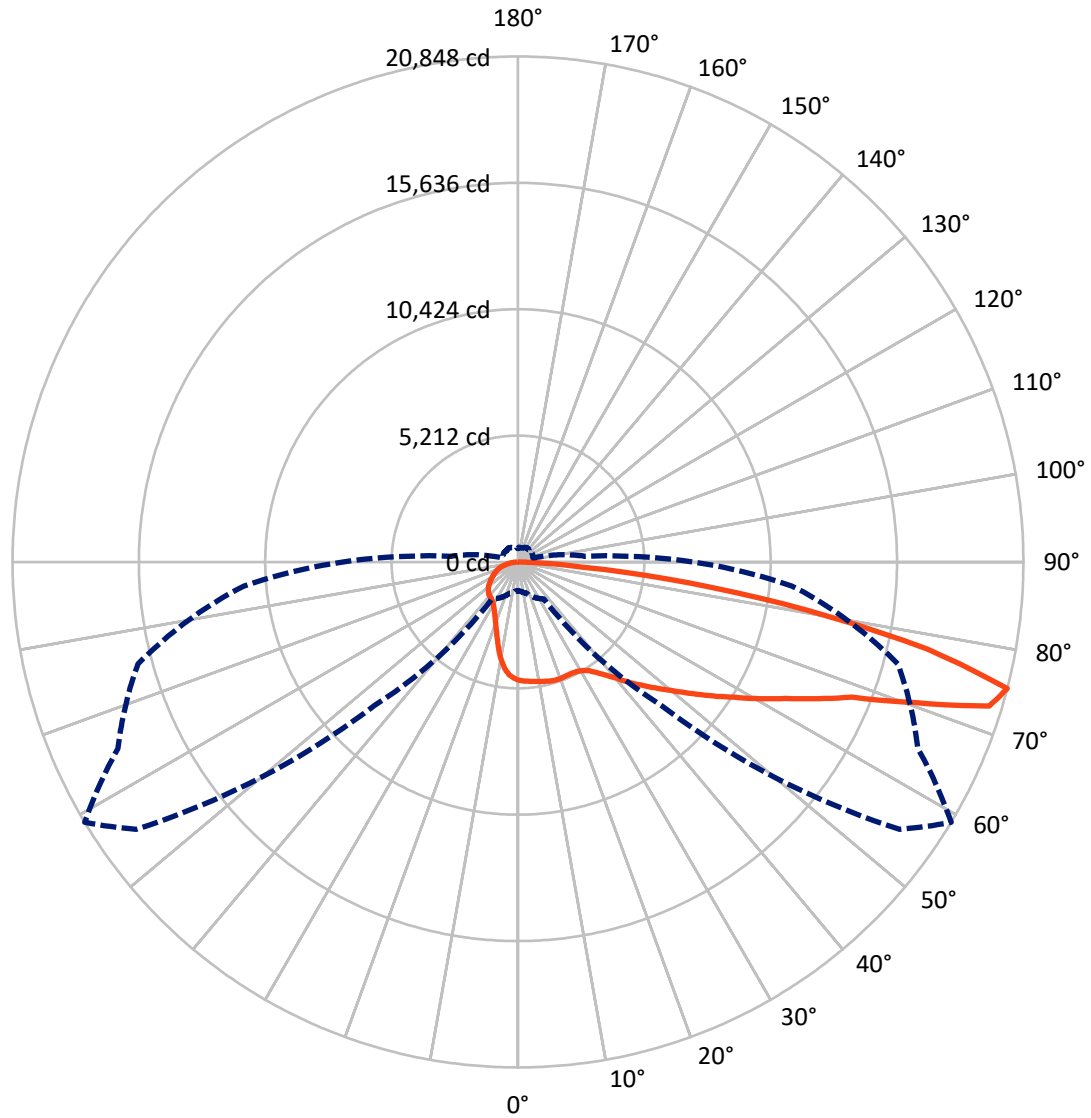
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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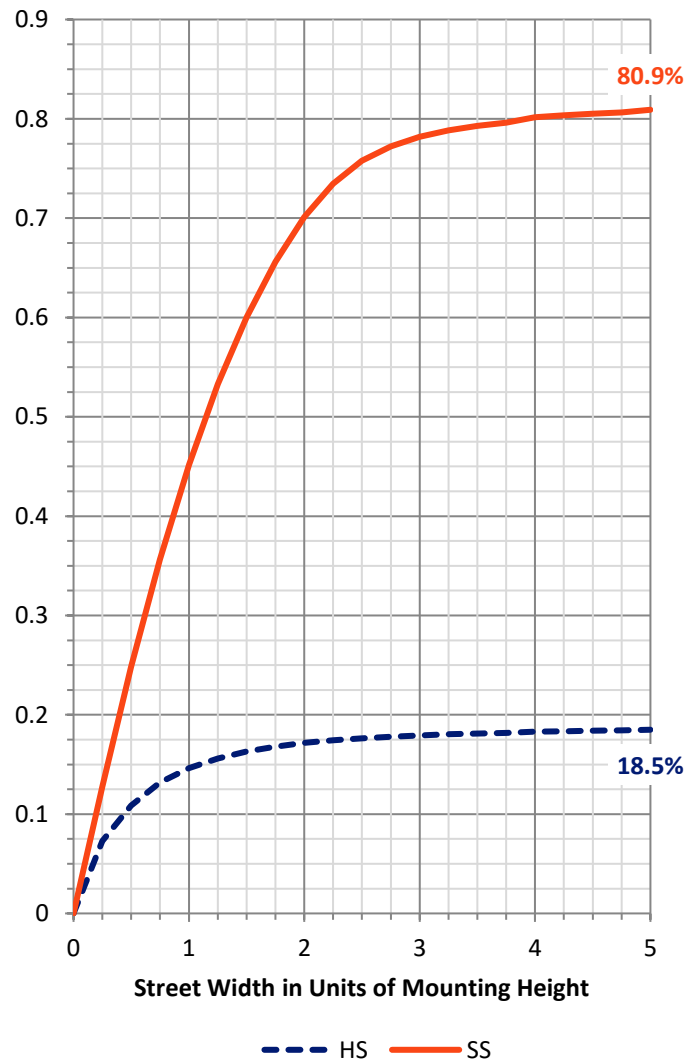
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4987.3	0.0	4987.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	21603.7	0.0	21603.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	26591.0	0.0	26591.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.6	1.6
10°-20°	1118.6	4.2
20°-30°	1699.1	6.4
30°-40°	2525.7	9.5
40°-50°	3756.1	14.1
50°-60°	5098.5	19.2
60°-70°	6224.4	23.4
70°-80°	4884.8	18.4
80°-90°	846.2	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°	26591.0	100.0
0°-180°	26591.0	100.0

**Coefficient of Utilization**



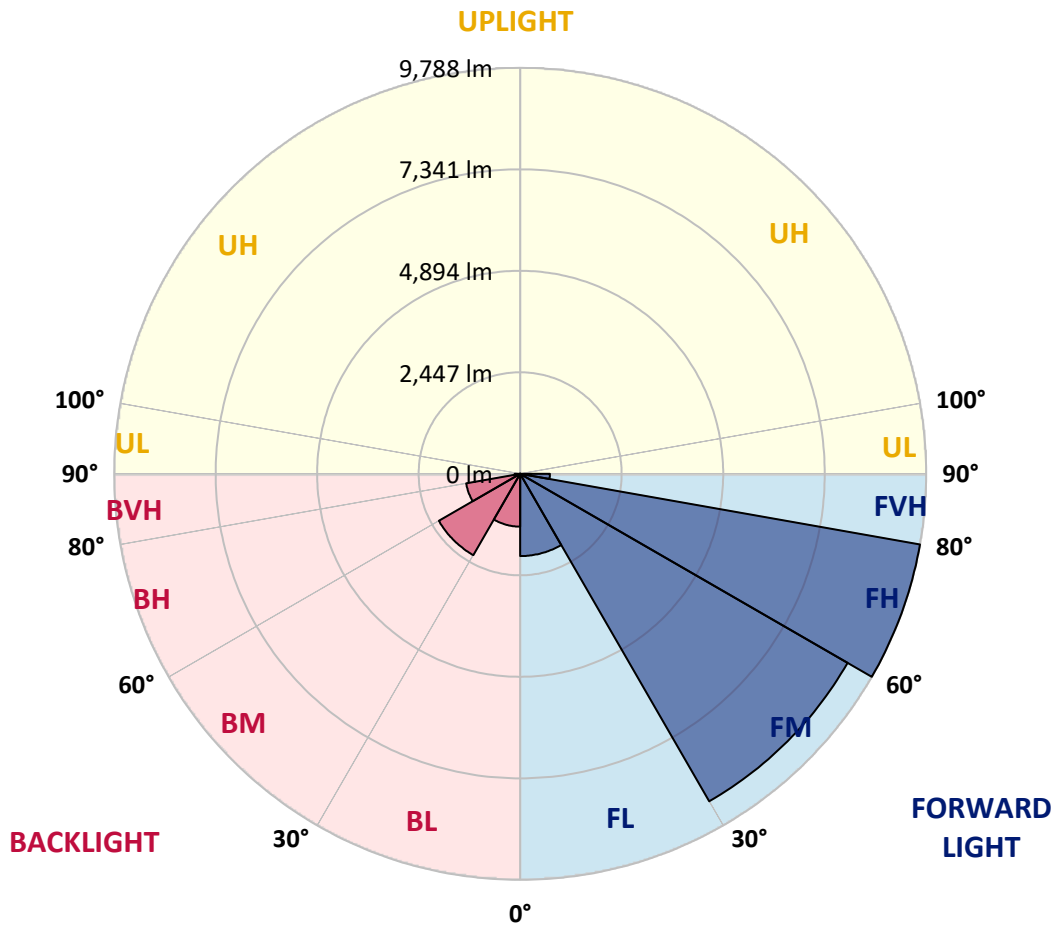
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1982.6	7.5			
FM (30°-60°)	9116.5	34.3			
FH (60°-80°)	9787.9	36.8			G4/12000
FVH (80°-90°)	716.6	2.7			G4/750
BL (0°-30°)	1272.7	4.8	B3/2500		
BM (30°-60°)	2263.8	8.5	B2/2500		
BH (60°-80°)	1321.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	129.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7
2.5°	4922.2	4905.0	4922.2	4915.0	4912.2	4906.5	4907.9	4917.9	4912.2	4919.3
5°	4889.3	4879.3	4896.5	4892.2	4910.8	4913.6	4932.2	4943.7	4950.8	4952.2
7.5°	4834.9	4824.9	4849.2	4869.3	4909.3	4920.8	4959.4	4978.0	4988.0	5005.2
10°	4636.1	4631.8	4691.9	4767.7	4862.1	4920.8	4979.4	5010.9	5026.6	5072.4
12.5°	4284.2	4289.9	4368.6	4514.5	4703.3	4892.2	5002.3	5048.1	5072.4	5129.6
15°	3948.1	3946.6	4032.5	4188.4	4453.0	4766.3	5013.8	5092.4	5133.9	5218.3
17.5°	3753.5	3747.8	3807.9	3926.6	4172.6	4573.2	4985.1	5116.7	5205.4	5311.3
20°	3717.8	3706.3	3737.8	3796.4	3970.9	4361.5	4910.8	5116.7	5262.7	5400.0
22.5°	3847.9	3829.3	3816.5	3809.3	3886.6	4186.9	4826.4	5099.6	5347.0	5527.3
25°	4109.7	4081.1	4015.3	3950.9	3928.0	4108.3	4752.0	5095.3	5472.9	5698.9
27.5°	4533.1	4497.4	4364.3	4209.8	4071.1	4148.3	4719.1	5121.0	5611.7	5880.6
30°	5058.1	5019.5	4852.1	4614.7	4365.8	4297.1	4760.6	5196.8	5789.1	6122.4
32.5°	5528.7	5485.8	5342.8	5101.0	4764.9	4554.6	4892.2	5341.3	6068.0	6458.5
35°	5946.4	5896.3	5767.6	5544.5	5254.1	4916.5	5129.6	5597.4	6464.2	7004.9
37.5°	6355.5	6296.9	6156.7	5920.7	5717.5	5398.5	5457.2	5926.4	6990.6	7668.7
40°	6813.3	6728.9	6558.6	6325.5	6128.1	5963.6	5887.8	6329.8	7525.6	8409.7
42.5°	7256.7	7176.6	6973.5	6774.6	6527.2	6480.0	6387.0	6801.8	8110.7	9223.6
45°	7734.5	7638.6	7392.6	7140.8	6984.9	6823.3	6870.5	7273.9	8684.3	10053.3
47.5°	8182.2	8074.9	7784.5	7504.2	7418.3	7112.2	7313.9	7793.1	9280.8	10894.4
50°	8424.0	8318.1	8076.4	7823.2	7755.9	7468.4	7794.6	8363.9	9905.9	11732.6
52.5°	8625.7	8511.2	8195.1	8054.9	8034.9	7856.1	8386.8	9016.2	10531.0	12473.6
55°	8840.2	8712.9	8309.5	8183.6	8275.2	8290.9	9089.1	9755.7	11191.9	13196.0
57.5°	9087.7	8926.1	8419.7	8292.4	8509.8	8800.2	9895.9	10522.4	11841.3	13865.4
60°	9320.9	9157.8	8631.4	8465.4	8763.0	9390.9	10821.4	11450.8	12576.6	14461.9
62.5°	9366.6	9232.2	8800.2	8798.7	9106.3	10080.4	11917.1	12387.8	13218.9	15051.3
65°	8574.2	8489.8	8233.7	8785.9	9598.4	11073.2	13137.3	13586.5	14035.6	15566.2
67.5°	6525.7	6537.2	6518.6	7584.3	9200.7	12499.3	14903.9	14869.6	15044.1	16144.1
70°	2983.9	3051.2	3488.9	5235.5	7371.1	12663.8	17824.9	17380.1	16310.1	16892.3
72.5°	1612.1	1663.6	1842.4	2536.2	4431.6	11259.1	20007.8	20323.9	17993.7	17395.8
75°	1183.0	1211.6	1336.0	1612.1	1861.0	8368.2	19225.3	20847.5	18204.0	16221.4
77.5°	885.5	898.3	999.9	1277.4	952.7	4411.5	15361.7	17265.6	15583.4	13327.6
80°	642.3	656.6	732.4	958.4	668.0	1613.6	10548.2	12118.8	10672.6	8495.5
82.5°	443.4	449.2	482.1	652.3	466.3	626.5	5985.0	7106.5	5957.9	2981.1
85°	267.5	274.6	289.0	380.5	264.6	297.5	2583.4	2672.1	1780.9	712.4
87.5°	110.1	117.3	128.7	160.2	104.4	83.0	426.3	535.0	333.3	208.8
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°
4880.7	0°	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7	4880.7
4895.0	2.5°	4887.9	4877.9	4850.7	4813.5	4779.2	4736.2	4717.6	4701.9	4687.6	4660.4
4933.6	5°	4917.9	4890.7	4817.8	4723.4	4616.1	4498.8	4384.4	4305.7	4238.4	4188.4
4978.0	7.5°	4963.7	4912.2	4779.2	4586.0	4340.0	4088.2	3860.8	3699.2	3577.6	3533.2
5040.9	10°	5010.9	4949.4	4717.6	4377.2	3952.4	3564.7	3262.9	3096.9	2999.7	2968.2
5115.3	12.5°	5066.7	4976.6	4621.8	4086.8	3518.9	3094.1	2830.9	2733.6	2683.5	2666.4
5206.9	15°	5148.2	4999.4	4477.3	3723.5	3105.5	2750.8	2580.5	2513.3	2487.6	2486.1
5301.3	17.5°	5209.7	5003.7	4252.7	3334.4	2788.0	2543.4	2403.2	2377.4	2394.6	2420.3
5394.3	20°	5278.4	4965.1	3958.1	2979.6	2564.8	2361.7	2303.0	2320.2	2361.7	2398.9
5517.3	22.5°	5327.0	4895.0	3601.9	2703.6	2371.7	2257.3	2254.4	2290.2	2313.0	2331.6
5661.7	25°	5369.9	4776.3	3224.2	2471.8	2212.9	2194.3	2225.8	2214.3	2198.6	2214.3
5806.2	27.5°	5401.4	4588.9	2886.7	2268.7	2101.3	2151.4	2132.8	2107.1	2105.6	2114.2
5976.4	30°	5391.4	4338.6	2609.2	2075.6	2022.7	2071.3	2027.0	2022.7	2018.4	2022.7
6232.5	32.5°	5391.4	4053.9	2396.0	1942.6	1972.6	1954.0	1949.7	1939.7	1922.5	1921.1
6580.1	35°	5421.4	3769.3	2212.9	1871.0	1931.1	1886.8	1889.6	1865.3	1829.6	1812.4
7040.7	37.5°	5482.9	3540.4	2031.2	1836.7	1858.2	1856.7	1845.3	1803.8	1740.9	1686.5
7615.8	40°	5631.7	3473.1	1906.8	1821.0	1823.8	1841.0	1811.0	1730.9	1587.8	1499.1
8199.4	42.5°	5864.9	3586.2	1879.6	1782.3	1800.9	1818.1	1759.5	1573.5	1471.9	1419.0
8811.6	45°	6161.0	3783.6	1938.3	1726.6	1746.6	1776.6	1602.1	1513.4	1467.6	1469.1
9418.1	47.5°	6535.8	3991.0	2047.0	1677.9	1667.9	1685.1	1497.7	1443.3	1380.4	1396.1
10000.3	50°	6969.2	4201.3	2150.0	1612.1	1580.7	1524.9	1430.5	1379.0	1298.9	1261.7
10562.5	52.5°	7438.4	4404.4	2191.5	1532.0	1486.2	1421.9	1384.7	1321.7	1224.5	1163.0
11093.2	55°	7883.2	4588.9	2145.7	1436.2	1391.8	1341.8	1336.0	1297.4	1193.0	1107.2
11565.2	57.5°	8303.8	4743.4	2031.2	1338.9	1296.0	1266.0	1304.6	1286.0	1154.4	1044.2
12011.5	60°	8660.0	4849.2	1865.3	1240.2	1210.2	1194.4	1253.1	1247.4	1100.0	977.0
12412.1	62.5°	8943.2	4890.7	1682.2	1145.8	1138.6	1110.0	1181.6	1181.6	1031.4	911.2
12764.0	65°	9164.9	4850.7	1496.3	1052.8	1067.1	1024.2	1094.3	1085.7	958.4	852.6
13168.8	67.5°	9360.9	4719.1	1290.3	961.3	994.2	939.8	1002.8	982.7	878.3	793.9
13519.2	70°	9448.2	4413.0	1055.7	869.7	909.8	856.8	911.2	874.0	788.2	731.0
13134.5	72.5°	8747.2	3667.7	831.1	773.9	808.2	765.3	812.5	769.6	690.9	665.2
11342.1	75°	7236.7	2752.2	639.4	669.5	695.2	662.3	693.8	662.3	590.8	609.4
8378.2	77.5°	5255.5	1858.2	489.2	559.3	570.8	553.6	580.8	545.0	480.6	476.3
4175.5	80°	2613.4	1088.6	383.4	442.0	437.7	426.3	457.7	440.6	386.2	409.1
1127.2	82.5°	756.7	466.3	278.9	310.4	301.8	304.7	327.6	336.2	503.5	499.2
350.5	85°	237.5	183.1	167.4	173.1	164.5	168.8	193.1	383.4	354.8	207.4
108.7	87.5°	61.5	62.9	41.5	44.3	45.8	54.4	61.5	233.2	111.6	73.0
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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<u>180°</u>
4880.7
4647.6
4146.9
3456.0
2919.6
2670.7
2491.9
2430.3
2411.8
2341.7
2224.4
2128.5
2038.4
1939.7
1829.6
1705.1
1510.6
1419.0
1476.2
1436.2
1271.7
1161.5
1107.2
1038.5
972.7
906.9
846.8
788.2
719.5
643.7
556.4
454.9
404.8
510.7
224.6
77.2
0.0

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