

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: P951102

Luminaire Tested: **GALN-SB5B-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26873 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

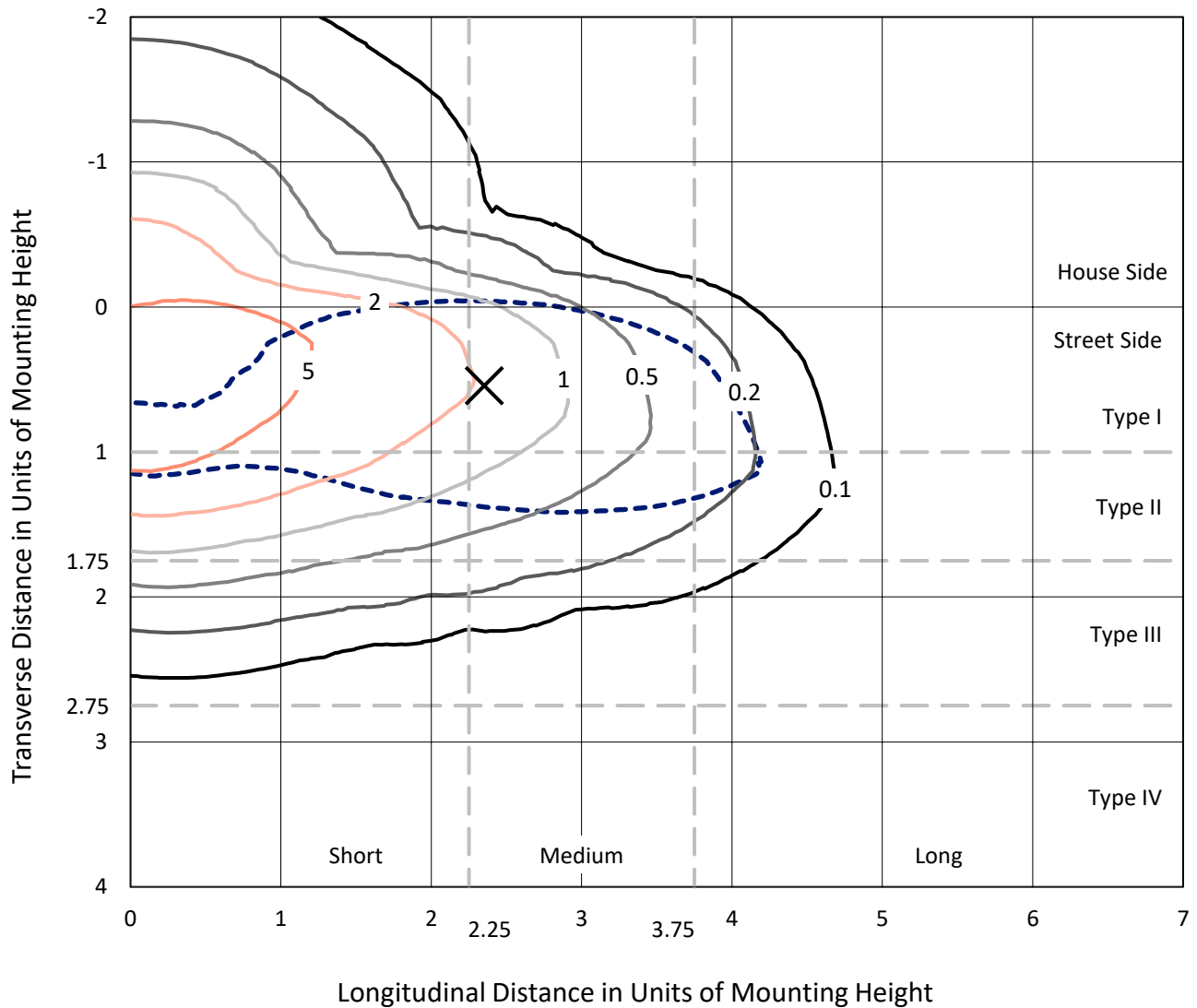
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

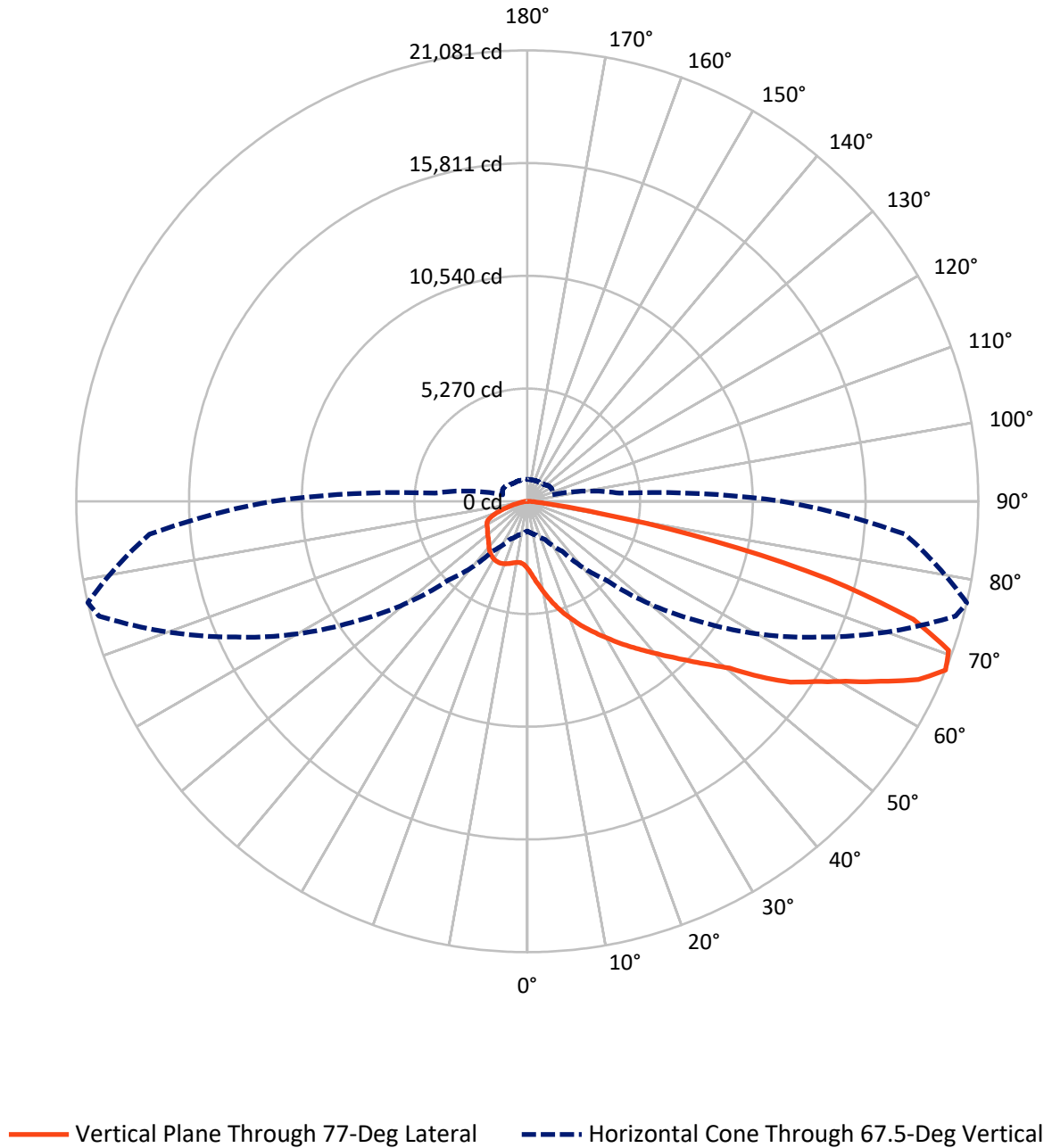
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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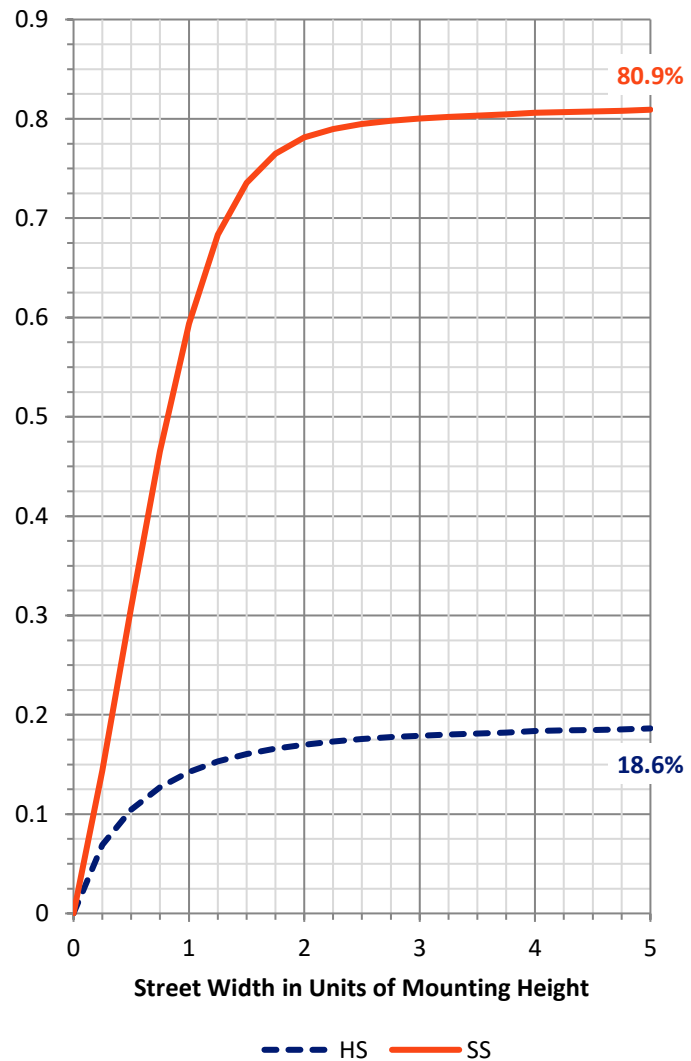
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5083.3	0.0	5083.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	21789.7	0.0	21789.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	26873.0	0.0	26873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	1.3
10°-20°	1214.2	4.5
20°-30°	2292.5	8.5
30°-40°	3693.1	13.7
40°-50°	5051.5	18.8
50°-60°	5698.1	21.2
60°-70°	5318.5	19.8
70°-80°	2915.4	10.8
80°-90°	351.7	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°	26873.0	100.0
0°-180°	26873.0	100.0

Coefficient of Utilization



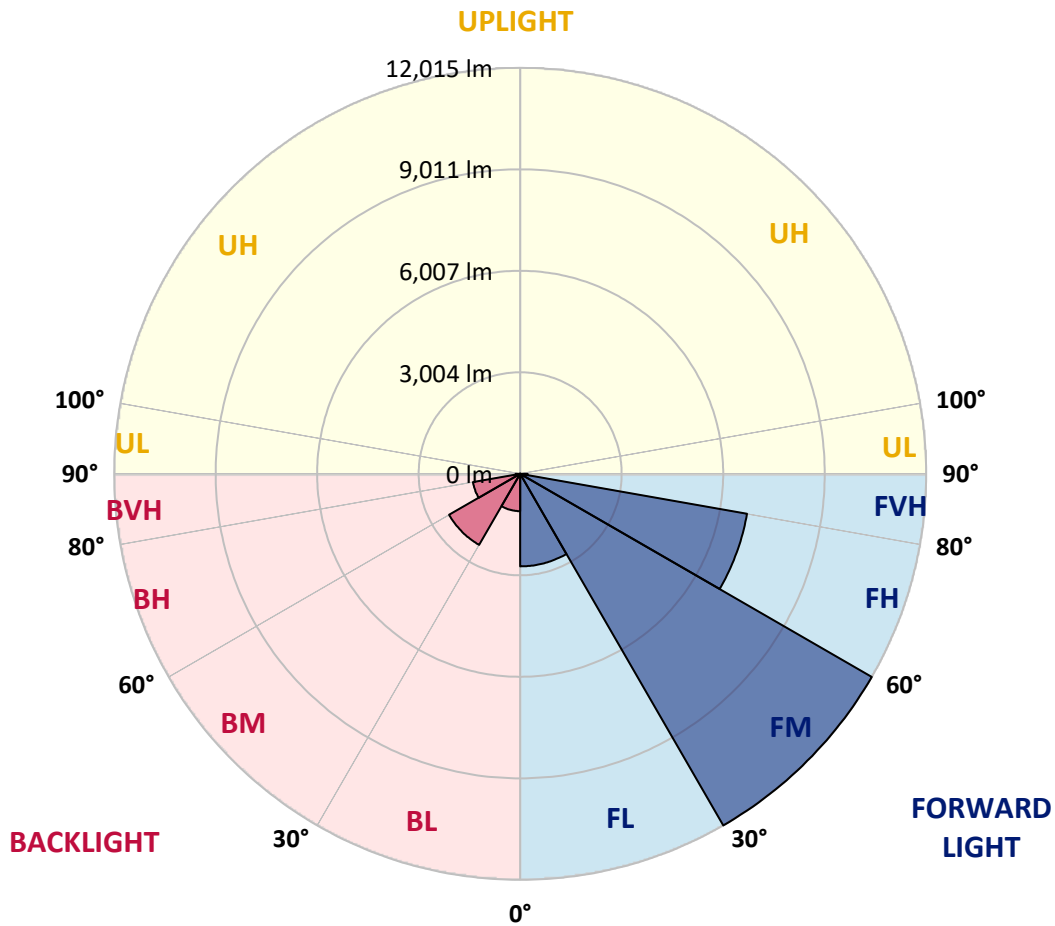
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.4	10.2			
FM (30°-60°)	12014.6	44.7			
FH (60°-80°)	6815.8	25.4			G3/7500
FVH (80°-90°)	219.9	0.8			G2/225
BL (0°-30°)	1105.2	4.1	B3/2500		
BM (30°-60°)	2428.2	9.0	B2/2500		
BH (60°-80°)	1418.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	131.7	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0
2.5°	3947.9	3975.6	3941.0	3941.0	3824.4	3763.4	3646.9	3558.1	3398.6	3370.8
5°	4666.4	4701.1	4652.6	4631.8	4494.4	4368.2	4172.6	3979.8	3695.4	3666.3
7.5°	5222.7	5267.1	5224.1	5201.9	5079.8	4938.3	4709.4	4440.3	4039.4	3982.6
10°	5676.3	5683.2	5669.4	5677.7	5582.0	5465.5	5231.0	4917.5	4416.7	4339.1
12.5°	5932.9	5964.8	5992.6	6042.5	6025.9	5953.7	5742.9	5368.3	4816.3	4716.4
15°	6053.6	6109.1	6171.5	6286.7	6379.6	6397.6	6236.7	5852.5	5222.7	5102.0
17.5°	6096.6	6149.3	6247.8	6414.3	6614.0	6748.6	6676.4	6322.7	5625.0	5486.3
20°	6314.4	6329.7	6389.3	6547.4	6763.8	6987.2	7041.3	6774.9	6023.1	5866.3
22.5°	6780.5	6750.0	6766.6	6838.7	6994.1	7210.5	7334.0	7174.4	6432.3	6252.0
25°	7550.4	7461.6	7372.8	7289.6	7368.6	7490.7	7630.8	7573.9	6860.9	6632.1
27.5°	8522.8	8414.6	8219.0	7945.7	7850.0	7893.0	7955.4	7944.3	7257.7	7026.0
30°	9479.9	9353.7	9120.6	8725.3	8472.8	8359.1	8311.9	8280.0	7689.1	7442.2
32.5°	10244.3	10144.4	9915.5	9473.0	9106.8	8912.6	8755.8	8642.1	8139.9	7893.0
35°	10912.9	10819.9	10557.8	10075.0	9676.9	9470.2	9264.9	9022.2	8608.8	8359.1
37.5°	11523.2	11430.3	11071.0	10568.8	10168.0	10025.1	9842.0	9430.0	9079.0	8843.2
40°	11908.9	11888.0	11552.4	10983.6	10567.5	10496.7	10435.7	9903.0	9600.6	9381.4
42.5°	12007.3	12053.1	11786.8	11319.3	10922.6	10865.7	11008.6	10438.5	10186.0	9976.5
45°	11770.1	11901.9	11727.1	11409.5	11175.0	11144.5	11516.3	11023.8	10833.8	10642.4
47.5°	11169.5	11392.8	11320.7	11276.3	11243.0	11374.8	11963.0	11645.3	11567.6	11401.2
50°	9957.1	10380.2	10506.4	10786.6	11108.5	11553.7	12369.4	12323.6	12424.9	12257.0
52.5°	7861.1	8443.7	9176.1	9878.0	10695.1	11494.1	12816.1	13297.4	13724.7	13633.1
55°	6489.2	6751.4	7314.5	8601.8	9893.3	11243.0	13017.2	14083.9	15014.7	14932.9
57.5°	5434.9	5669.4	6016.2	7091.2	8680.9	10672.9	13142.1	14563.9	15898.4	15890.0
60°	4304.4	4552.7	4907.8	5669.4	7264.6	9688.0	13114.3	15110.4	17026.1	17095.5
62.5°	3028.2	3301.5	3695.4	4405.7	5817.8	8411.8	12548.3	15505.8	18353.6	18542.3
65°	1990.6	2170.9	2467.8	3080.9	4334.9	6770.8	11467.7	15557.1	19774.1	20093.2
67.5°	1395.5	1464.9	1639.6	1972.6	2857.6	5192.2	9746.3	15025.8	20721.5	21080.8
70°	1088.9	1123.6	1212.4	1345.6	1795.0	3491.5	7468.5	13644.2	20519.0	20893.6
72.5°	940.5	973.8	1007.1	1023.7	1204.1	2155.7	5059.0	11408.1	18611.7	18865.5
75°	853.1	861.4	889.2	883.6	918.3	1398.3	2920.0	8311.9	14684.6	14597.2
77.5°	717.2	728.3	774.0	767.1	815.7	955.8	1516.2	5364.2	9520.1	8926.4
80°	607.6	613.1	663.1	654.7	708.8	692.2	774.0	2734.1	4038.1	3420.8
82.5°	210.8	260.8	506.3	521.6	541.0	418.9	446.7	1115.3	1233.2	944.7
85°	102.7	109.6	258.0	366.2	364.8	210.8	217.8	398.1	388.4	305.2
87.5°	16.6	20.8	30.5	142.9	113.7	55.5	74.9	77.7	80.5	69.4
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°
3153.0	0°	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0	3153.0
3265.4	2.5°	3187.7	3118.4	2972.7	2838.2	2732.7	2631.5	2574.6	2526.0	2498.3	2492.7
3418.0	5°	3273.7	3130.8	2865.9	2642.6	2496.9	2388.7	2331.8	2295.8	2277.7	2266.6
3623.3	7.5°	3397.2	3187.7	2810.4	2556.6	2404.0	2326.3	2297.2	2291.6	2290.2	2291.6
3871.6	10°	3567.8	3280.7	2804.9	2535.7	2408.1	2365.1	2363.7	2365.1	2370.7	2372.1
4142.1	12.5°	3752.3	3376.4	2827.1	2553.8	2460.8	2437.3	2433.1	2431.7	2435.9	2438.6
4415.4	15°	3953.4	3502.6	2864.5	2592.6	2519.1	2494.1	2490.0	2481.6	2480.3	2478.9
4702.5	17.5°	4160.1	3627.4	2906.1	2634.2	2556.6	2521.9	2506.6	2487.2	2471.9	2467.8
4999.4	20°	4369.6	3750.9	2935.3	2655.0	2559.3	2510.8	2480.3	2447.0	2420.6	2405.4
5299.0	22.5°	4592.9	3879.9	2953.3	2649.5	2534.4	2467.8	2412.3	2373.4	2333.2	2306.9
5601.4	25°	4810.7	3992.3	2951.9	2620.4	2485.8	2401.2	2330.4	2280.5	2225.0	2197.3
5913.5	27.5°	5020.2	4093.5	2917.2	2569.0	2416.5	2322.1	2237.5	2177.9	2123.8	2097.4
6228.4	30°	5236.6	4178.2	2863.1	2494.1	2334.6	2230.6	2137.6	2086.3	2037.8	2012.8
6561.3	32.5°	5451.6	4255.8	2786.8	2401.2	2240.3	2140.4	2048.9	2001.7	1972.6	1972.6
6919.2	35°	5679.1	4309.9	2685.6	2293.0	2140.4	2044.7	1972.6	1944.8	1942.0	1925.4
7297.9	37.5°	5919.1	4344.6	2562.1	2182.0	2041.9	1951.7	1929.6	1896.3	1868.5	1832.5
7714.1	40°	6171.5	4379.3	2413.7	2066.9	1937.9	1887.9	1878.2	1833.8	1754.8	1666.0
8185.7	42.5°	6478.1	4402.9	2259.7	1951.7	1828.3	1811.6	1825.5	1749.2	1623.0	1556.4
8754.4	45°	6833.2	4441.7	2118.2	1838.0	1715.9	1715.9	1774.2	1674.3	1570.3	1528.7
9403.6	47.5°	7293.7	4531.9	1986.4	1713.2	1611.9	1639.6	1660.4	1584.1	1525.9	1474.6
10194.3	50°	7959.6	4748.3	1850.5	1586.9	1532.8	1588.3	1559.2	1514.8	1446.8	1405.2
11451.1	52.5°	8786.3	4875.9	1729.8	1473.2	1464.9	1520.3	1478.7	1437.1	1385.8	1330.3
12404.1	55°	9349.5	4899.5	1628.5	1389.9	1419.1	1413.5	1398.3	1360.8	1333.1	1259.6
13344.6	57.5°	9979.3	4946.6	1545.3	1340.0	1389.9	1328.9	1323.4	1291.5	1255.4	1205.5
14491.8	60°	10732.5	5020.2	1473.2	1320.6	1365.0	1273.4	1245.7	1233.2	1197.1	1172.2
15872.0	62.5°	11553.7	5086.8	1399.7	1323.4	1335.8	1219.3	1177.7	1173.5	1151.4	1143.0
17167.6	65°	12114.2	4905.0	1308.1	1320.6	1290.1	1163.8	1111.1	1109.7	1091.7	1088.9
17729.4	67.5°	11918.6	4329.4	1184.6	1281.7	1242.9	1108.3	1050.1	1044.5	1021.0	1022.3
17142.6	70°	10939.2	3508.2	1014.0	1186.0	1184.6	1058.4	986.3	968.2	936.3	941.9
14905.1	72.5°	9102.6	2599.6	785.1	1026.5	1091.7	1012.6	912.8	883.6	843.4	848.9
11003.0	75°	6573.8	1767.3	571.5	781.0	950.2	958.5	840.6	790.7	742.1	750.5
6124.4	77.5°	3363.9	1001.5	420.3	538.2	746.3	871.1	775.4	708.8	697.7	775.4
1765.9	80°	1097.3	502.2	291.3	377.3	489.7	713.0	679.7	603.4	600.6	618.7
370.4	82.5°	327.4	212.2	187.3	248.3	270.5	546.5	586.8	456.4	392.6	413.4
123.5	85°	112.4	102.7	106.8	123.5	129.0	320.4	410.6	302.4	285.8	314.9
27.7	87.5°	26.4	36.1	30.5	27.7	27.7	77.7	159.5	126.2	174.8	116.5
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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<u>180°</u>
3153.0
2492.7
2265.2
2295.8
2373.4
2440.0
2477.5
2471.9
2410.9
2308.3
2197.3
2096.0
2011.4
1973.9
1921.2
1826.9
1653.5
1557.8
1535.6
1473.2
1401.0
1319.2
1260.9
1188.8
1179.1
1143.0
1087.5
1022.3
947.4
847.6
753.2
764.3
531.3
427.2
310.7
112.4
0.0

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