

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: P953601

Luminaire Tested: **GALN-SB7A-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953601
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-SB7A-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30139 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

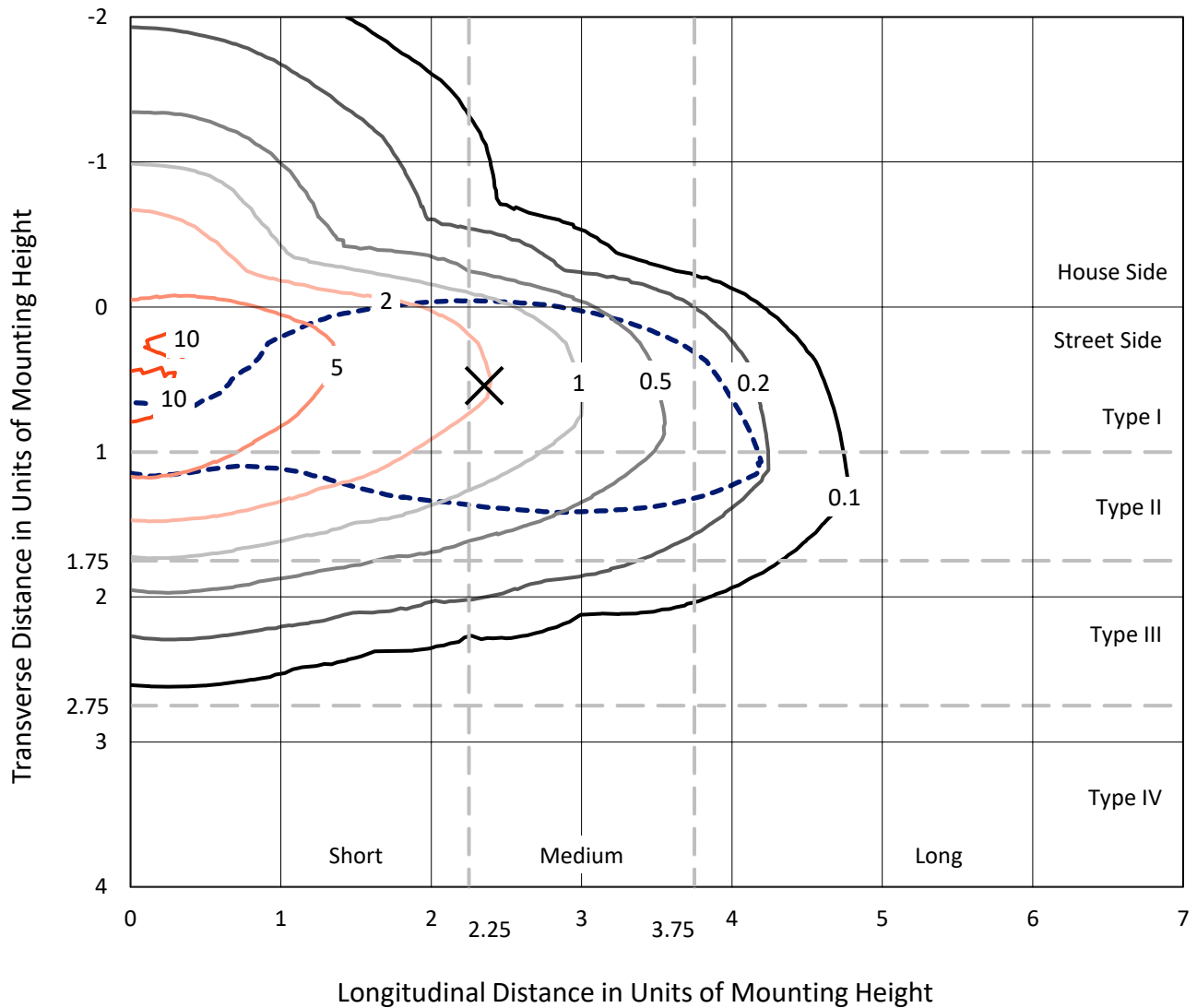
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

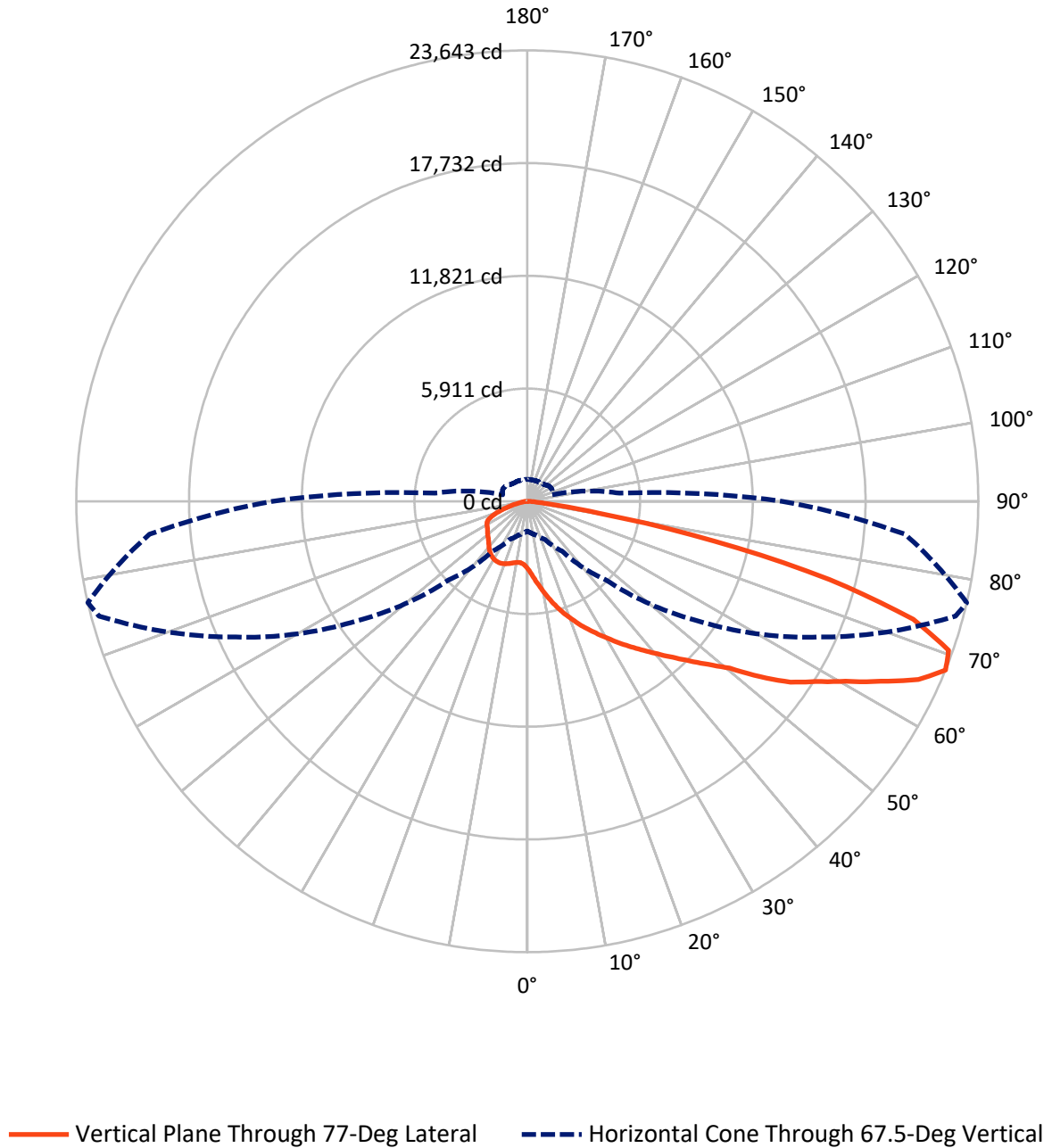
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	5701.1	0.0	5701.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	24437.9	0.0	24437.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	30139.0	0.0	30139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.0	1.3
10°-20°	1361.7	4.5
20°-30°	2571.1	8.5
30°-40°	4142.0	13.7
40°-50°	5665.5	18.8
50°-60°	6390.7	21.2
60°-70°	5964.9	19.8
70°-80°	3269.8	10.8
80°-90°	394.4	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°	30139.0	100.0
0°-180°	30139.0	100.0

Coefficient of Utilization



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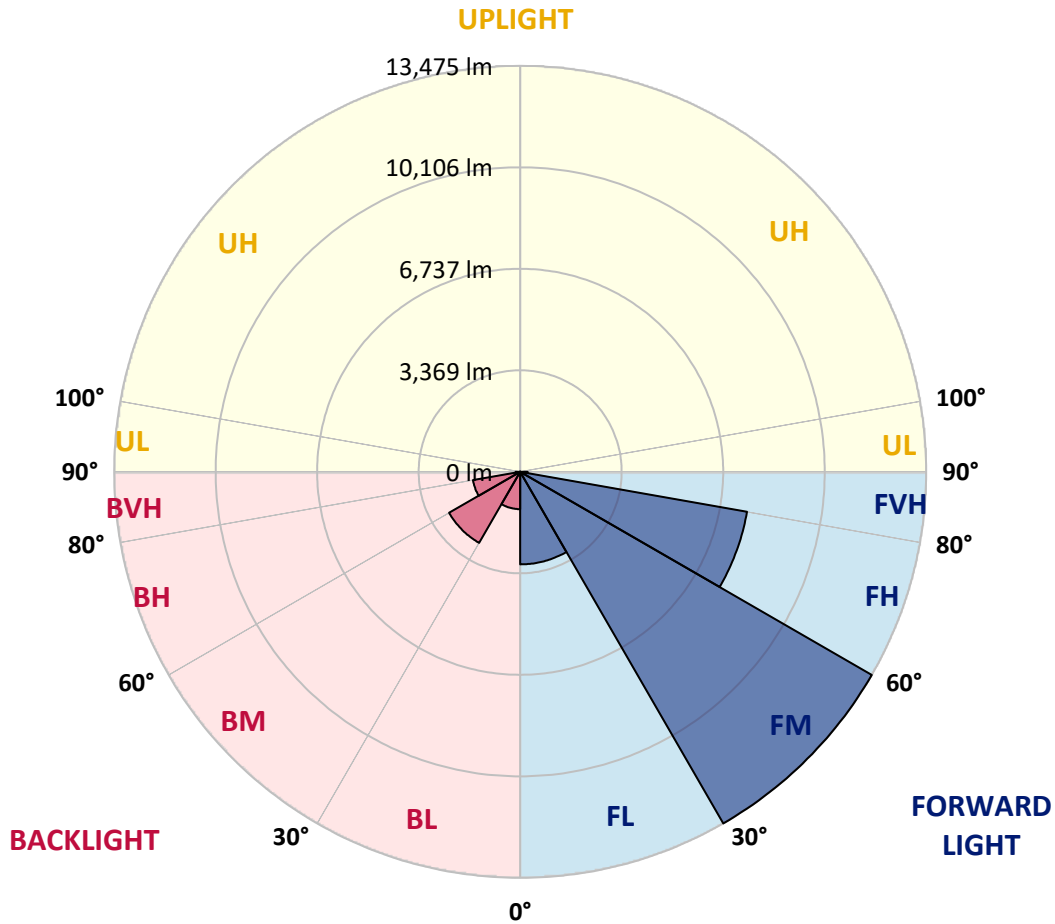
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3072.3	10.2			
FM (30°-60°)	13474.8	44.7			
FH (60°-80°)	7644.1	25.4			G4/12000
FVH (80°-90°)	246.7	0.8			G3/500
BL (0°-30°)	1239.6	4.1	B3/2500		
BM (30°-60°)	2723.3	9.0	B3/5000		
BH (60°-80°)	1590.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	147.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2
2.5°	4427.7	4458.8	4419.9	4419.9	4289.2	4220.8	4090.1	3990.5	3811.6	3780.5
5°	5233.6	5272.5	5218.0	5194.7	5040.7	4899.1	4679.7	4463.5	4144.5	4111.9
7.5°	5857.4	5907.2	5859.0	5834.1	5697.2	5538.5	5281.8	4980.0	4530.4	4466.6
10°	6366.2	6373.9	6358.4	6367.7	6260.4	6129.7	5866.8	5515.2	4953.5	4866.4
12.5°	6654.0	6689.8	6720.9	6776.9	6758.2	6677.3	6440.8	6020.8	5401.6	5289.6
15°	6789.3	6851.6	6921.6	7050.7	7154.9	7175.2	6994.7	6563.7	5857.4	5722.1
17.5°	6837.6	6896.7	7007.1	7193.8	7417.9	7568.8	7487.9	7091.2	6308.6	6153.0
20°	7081.8	7098.9	7165.8	7343.2	7585.9	7836.4	7897.0	7598.3	6755.1	6579.3
22.5°	7604.6	7570.3	7589.0	7669.9	7844.1	8086.8	8225.3	8046.4	7214.1	7011.8
25°	8468.0	8368.4	8268.9	8175.5	8264.2	8401.1	8558.2	8494.4	7694.8	7438.1
27.5°	9558.6	9437.2	9217.9	8911.4	8804.0	8852.3	8922.3	8909.8	8139.7	7879.9
30°	10632.1	10490.5	10229.1	9785.7	9502.6	9375.0	9322.1	9286.3	8623.6	8346.6
32.5°	11489.3	11377.3	11120.6	10624.3	10213.6	9995.8	9820.0	9692.4	9129.2	8852.3
35°	12239.2	12134.9	11840.9	11299.5	10853.0	10621.2	10390.9	10118.7	9655.0	9375.0
37.5°	12923.7	12819.5	12416.5	11853.3	11403.7	11243.5	11038.1	10576.1	10182.4	9918.0
40°	13356.2	13332.9	12956.4	12318.5	11851.8	11772.4	11704.0	11106.6	10767.4	10521.6
42.5°	13466.7	13518.0	13219.3	12695.0	12250.0	12186.3	12346.5	11707.1	11423.9	11189.0
45°	13200.6	13348.4	13152.4	12796.1	12533.2	12499.0	12915.9	12363.6	12150.5	11935.8
47.5°	12527.0	12777.5	12696.6	12646.8	12609.4	12757.2	13416.9	13060.6	12973.5	12786.8
50°	11167.2	11641.7	11783.3	12097.6	12458.5	12957.9	13872.7	13821.4	13934.9	13746.7
52.5°	8816.5	9469.9	10291.3	11078.6	11994.9	12891.0	14373.7	14913.5	15392.7	15290.0
55°	7277.8	7571.9	8203.5	9647.3	11095.7	12609.4	14599.2	15795.6	16839.5	16747.7
57.5°	6095.5	6358.4	6747.3	7953.0	9735.9	11970.0	14739.3	16333.9	17830.6	17821.2
60°	4827.5	5106.0	5504.3	6358.4	8147.5	10865.4	14708.1	16946.9	19095.4	19173.2
62.5°	3396.2	3702.7	4144.5	4941.1	6524.9	9434.1	14073.4	17390.3	20584.3	20795.8
65°	2232.5	2434.8	2767.7	3455.3	4861.7	7593.7	12861.5	17447.8	22177.3	22535.2
67.5°	1565.1	1642.9	1838.9	2212.3	3204.9	5823.2	10930.8	16852.0	23239.9	23642.9
70°	1221.3	1260.2	1359.7	1509.1	2013.2	3915.8	8376.2	15302.4	23012.8	23432.8
72.5°	1054.8	1092.1	1129.5	1148.2	1350.4	2417.7	5673.9	12794.6	20873.6	21158.3
75°	956.8	966.1	997.2	991.0	1029.9	1568.2	3274.9	9322.1	16469.3	16371.3
77.5°	804.3	816.8	868.1	860.3	914.8	1071.9	1700.4	6016.1	10677.2	10011.3
80°	681.4	687.6	743.7	734.3	795.0	776.3	868.1	3066.4	4528.8	3836.5
82.5°	236.5	292.5	567.9	585.0	606.7	469.8	501.0	1250.8	1383.1	1059.5
85°	115.1	122.9	289.4	410.7	409.2	236.5	244.3	446.5	435.6	342.3
87.5°	18.7	23.3	34.2	160.2	127.6	62.2	84.0	87.1	90.2	77.8
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°
3536.2	0°	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2	3536.2
3662.3	2.5°	3575.1	3497.3	3334.0	3183.1	3064.8	2951.3	2887.5	2833.0	2801.9	2795.7
3833.4	5°	3671.6	3511.3	3214.2	2963.7	2800.4	2679.0	2615.2	2574.8	2554.6	2542.1
4063.6	7.5°	3810.1	3575.1	3152.0	2867.3	2696.1	2609.0	2576.3	2570.1	2568.6	2570.1
4342.1	10°	4001.4	3679.4	3145.7	2843.9	2700.8	2652.6	2651.0	2652.6	2658.8	2660.3
4645.5	12.5°	4208.3	3786.7	3170.6	2864.2	2759.9	2733.5	2728.8	2727.2	2731.9	2735.0
4952.0	15°	4433.9	3928.3	3212.6	2907.7	2825.3	2797.3	2792.6	2783.3	2781.7	2780.1
5274.0	17.5°	4665.7	4068.3	3259.3	2954.4	2867.3	2828.4	2811.3	2789.5	2772.4	2767.7
5607.0	20°	4900.6	4206.8	3292.0	2977.7	2870.4	2815.9	2781.7	2744.4	2714.8	2697.7
5943.0	22.5°	5151.1	4351.5	3312.2	2971.5	2842.4	2767.7	2705.5	2661.9	2616.8	2587.2
6282.2	25°	5395.4	4477.5	3310.7	2938.8	2787.9	2693.0	2613.7	2557.7	2495.4	2464.3
6632.2	27.5°	5630.3	4591.0	3271.8	2881.3	2710.1	2604.3	2509.4	2442.5	2381.9	2352.3
6985.4	30°	5873.0	4685.9	3211.1	2797.3	2618.3	2501.7	2397.4	2339.9	2285.4	2257.4
7358.7	32.5°	6114.1	4773.1	3125.5	2693.0	2512.6	2400.5	2297.9	2245.0	2212.3	2212.3
7760.1	35°	6369.3	4833.7	3012.0	2571.7	2400.5	2293.2	2212.3	2181.2	2178.1	2159.4
8184.9	37.5°	6638.4	4872.6	2873.5	2447.2	2290.1	2189.0	2164.1	2126.7	2095.6	2055.2
8651.6	40°	6921.6	4911.5	2707.0	2318.1	2173.4	2117.4	2106.5	2056.7	1968.0	1868.5
9180.5	42.5°	7265.4	4938.0	2534.3	2189.0	2050.5	2031.8	2047.4	1961.8	1820.2	1745.6
9818.4	45°	7663.7	4981.5	2375.6	2061.4	1924.5	1924.5	1989.8	1877.8	1761.1	1714.4
10546.5	47.5°	8180.2	5082.7	2227.8	1921.4	1807.8	1838.9	1862.2	1776.7	1711.3	1653.8
11433.3	50°	8926.9	5325.4	2075.4	1779.8	1719.1	1781.3	1748.7	1698.9	1622.7	1576.0
12842.8	52.5°	9854.2	5468.5	1940.0	1652.2	1642.9	1705.1	1658.4	1611.8	1554.2	1492.0
13911.6	55°	10485.8	5494.9	1826.5	1558.9	1591.5	1585.3	1568.2	1526.2	1495.1	1412.6
14966.4	57.5°	11192.1	5547.8	1733.1	1502.9	1558.9	1490.4	1484.2	1448.4	1408.0	1352.0
16253.0	60°	12036.9	5630.3	1652.2	1481.1	1530.9	1428.2	1397.1	1383.1	1342.6	1314.6
17801.0	62.5°	12957.9	5705.0	1569.8	1484.2	1498.2	1367.5	1320.8	1316.2	1291.3	1281.9
19254.1	65°	13586.4	5501.2	1467.1	1481.1	1446.9	1305.3	1246.2	1244.6	1224.4	1221.3
19884.2	67.5°	13367.1	4855.5	1328.6	1437.5	1394.0	1243.1	1177.7	1171.5	1145.0	1146.6
19226.1	70°	12268.7	3934.5	1137.3	1330.2	1328.6	1187.0	1106.1	1085.9	1050.1	1056.4
16716.6	72.5°	10208.9	2915.5	880.6	1151.3	1224.4	1135.7	1023.7	991.0	945.9	952.1
12340.3	75°	7372.7	1982.0	641.0	875.9	1065.7	1075.0	942.8	886.8	832.3	841.7
6868.7	77.5°	3772.7	1123.3	471.4	603.6	837.0	977.0	869.7	795.0	782.5	869.7
1980.5	80°	1230.6	563.2	326.7	423.2	549.2	799.7	762.3	676.8	673.6	693.9
415.4	82.5°	367.2	238.0	210.0	278.5	303.4	613.0	658.1	511.8	440.3	463.6
138.5	85°	126.0	115.1	119.8	138.5	144.7	359.4	460.5	339.2	320.5	353.2
31.1	87.5°	29.6	40.4	34.2	31.1	31.1	87.1	178.9	141.6	196.0	130.7
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>
3536.2
2795.7
2540.6
2574.8
2661.9
2736.6
2778.6
2772.4
2703.9
2588.8
2464.3
2350.8
2255.9
2213.8
2154.7
2048.9
1854.5
1747.1
1722.2
1652.2
1571.3
1479.5
1414.2
1333.3
1322.4
1281.9
1219.7
1146.6
1062.6
950.6
844.8
857.2
595.9
479.2
348.5
126.0
0.0

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