

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: P951018

Luminaire Tested: **GALN-SB5B-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951018
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-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30652 lumens
Efficiency: N/A
Efficacy: 167.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

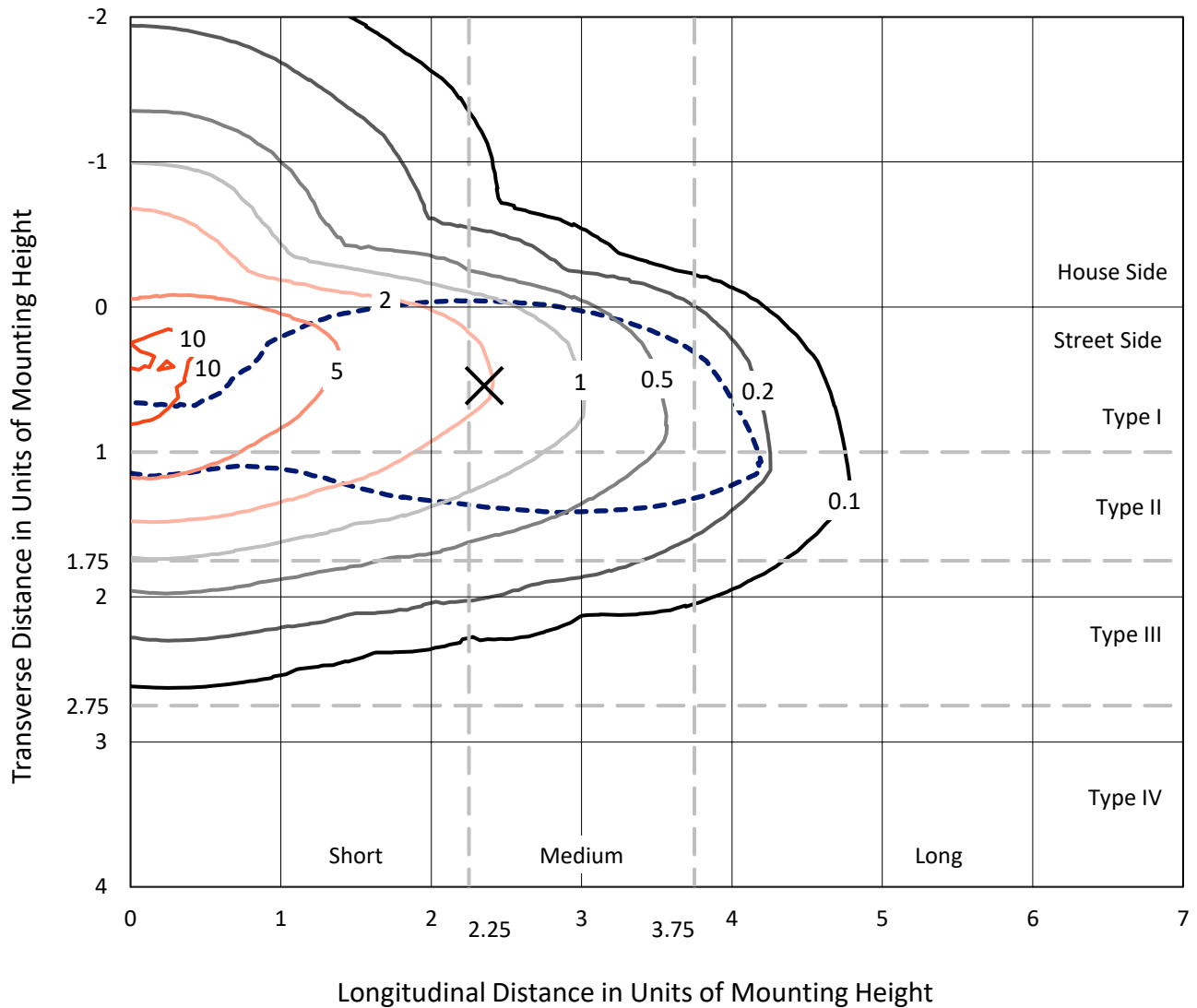
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

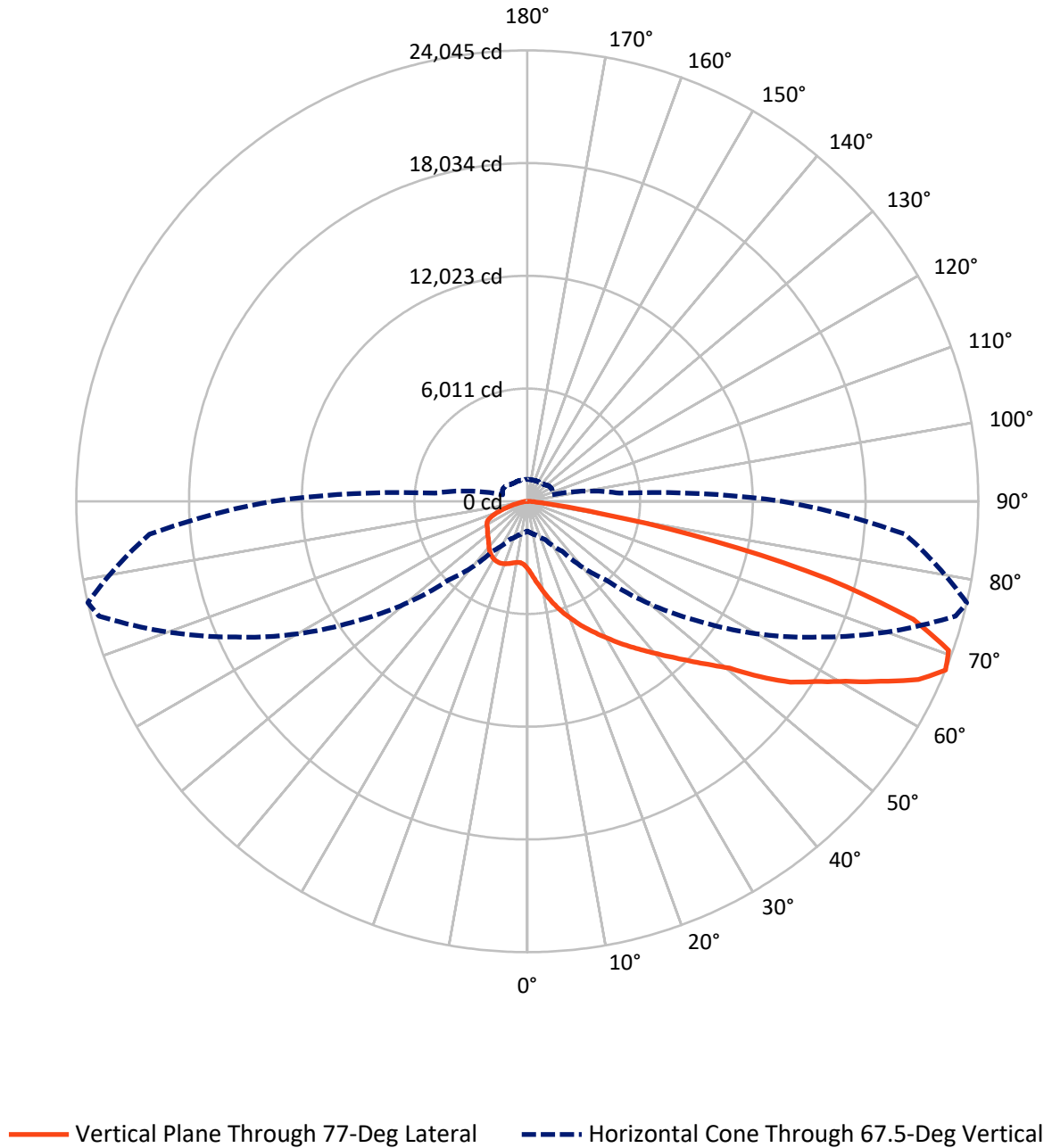
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	5798.1	0.0	5798.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	24853.9	0.0	24853.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	30652.0	0.0	30652.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	1.3
10°-20°	1384.9	4.5
20°-30°	2614.8	8.5
30°-40°	4212.5	13.7
40°-50°	5761.9	18.8
50°-60°	6499.5	21.2
60°-70°	6066.4	19.8
70°-80°	3325.4	10.8
80°-90°	401.1	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°	30652.0	100.0
0°-180°	30652.0	100.0

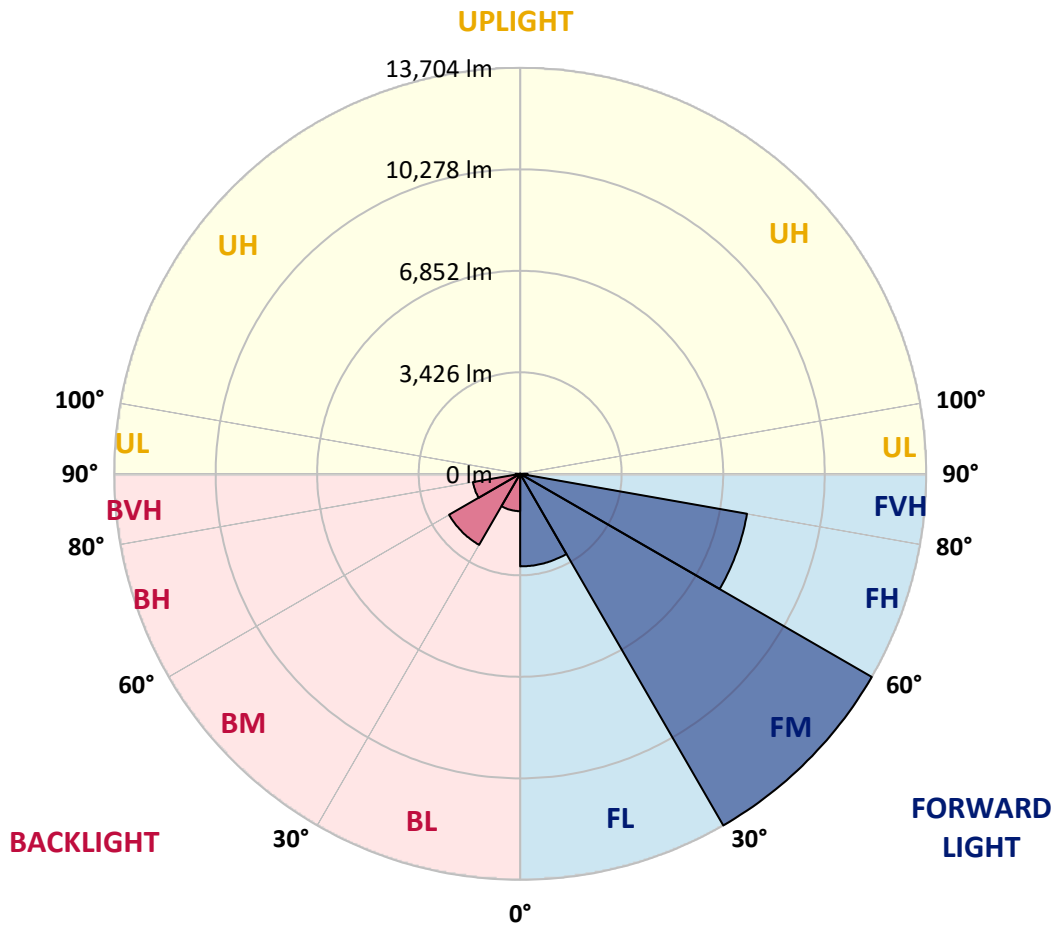


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3124.6	10.2			
FM (30°-60°)	13704.2	44.7			
FH (60°-80°)	7774.3	25.4			G4/12000
FVH (80°-90°)	250.9	0.8			G3/500
BL (0°-30°)	1260.6	4.1	B3/2500		
BM (30°-60°)	2769.6	9.0	B3/5000		
BH (60°-80°)	1617.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	150.3	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°	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4
2.5°	4503.1	4534.7	4495.1	4495.1	4362.2	4292.6	4159.7	4058.4	3876.5	3844.8
5°	5322.7	5362.2	5306.8	5283.1	5126.5	4982.5	4759.4	4539.4	4215.1	4181.9
7.5°	5957.1	6007.8	5958.7	5933.4	5794.2	5632.8	5371.7	5064.8	4607.5	4542.6
10°	6474.5	6482.4	6466.6	6476.1	6366.9	6234.0	5966.6	5609.0	5037.9	4949.2
12.5°	6767.2	6803.6	6835.3	6892.2	6873.3	6791.0	6550.5	6123.3	5493.5	5379.6
15°	6904.9	6968.2	7039.4	7170.7	7276.7	7297.3	7113.8	6675.5	5957.1	5819.5
17.5°	6953.9	7014.1	7126.4	7316.3	7544.1	7697.6	7615.3	7211.9	6416.0	6257.8
20°	7202.4	7219.8	7287.8	7468.2	7715.0	7969.7	8031.5	7727.7	6870.1	6691.3
22.5°	7734.0	7699.2	7718.2	7800.4	7977.7	8224.5	8365.3	8183.3	7336.8	7131.2
25°	8612.1	8510.9	8409.6	8314.7	8404.9	8544.1	8703.9	8639.0	7825.8	7564.7
27.5°	9721.3	9597.9	9374.8	9063.1	8953.9	9002.9	9074.1	9061.5	8278.3	8014.0
30°	10813.0	10669.0	10403.2	9952.3	9664.3	9534.6	9480.8	9444.4	8770.4	8488.7
32.5°	11684.8	11570.9	11309.9	10805.1	10387.4	10165.9	9987.1	9857.4	9284.6	9002.9
35°	12447.5	12341.5	12042.4	11491.8	11037.7	10802.0	10567.8	10290.9	9819.4	9534.6
37.5°	13143.7	13037.7	12627.9	12055.1	11597.8	11434.8	11226.0	10756.1	10355.8	10086.8
40°	13583.5	13559.8	13176.9	12528.2	12053.5	11972.8	11903.2	11295.6	10950.7	10700.7
42.5°	13695.9	13748.1	13444.3	12911.1	12458.6	12393.7	12556.7	11906.4	11618.4	11379.5
45°	13425.3	13575.6	13376.3	13013.9	12746.5	12711.7	13135.8	12574.1	12357.3	12138.9
47.5°	12740.2	12994.9	12912.7	12862.0	12824.1	12974.4	13645.2	13282.9	13194.3	13004.4
50°	11357.3	11839.9	11983.9	12303.5	12670.6	13178.5	14108.8	14056.6	14172.1	13980.7
52.5°	8966.6	9631.1	10466.5	11267.1	12199.1	13110.4	14618.3	15167.4	15654.7	15550.3
55°	7401.7	7700.8	8343.2	9811.5	11284.5	12824.1	14847.7	16064.5	17126.2	17032.8
57.5°	6199.2	6466.6	6862.2	8088.4	9901.7	12173.8	14990.1	16611.9	18134.1	18124.6
60°	4909.7	5192.9	5598.0	6466.6	8286.2	11050.4	14958.5	17235.3	19420.4	19499.5
62.5°	3454.0	3765.7	4215.1	5025.2	6635.9	9594.7	14312.9	17686.3	20934.6	21149.8
65°	2270.5	2476.2	2814.8	3514.2	4944.5	7722.9	13080.4	17744.8	22554.8	22918.7
67.5°	1591.7	1670.8	1870.2	2249.9	3259.4	5922.3	11116.8	17138.8	23635.5	24045.3
70°	1242.1	1281.6	1382.9	1534.8	2047.4	3982.5	8518.8	15562.9	23404.5	23831.7
72.5°	1072.8	1110.7	1148.7	1167.7	1373.4	2458.8	5770.4	13012.3	21228.9	21518.5
75°	973.1	982.6	1014.2	1007.9	1047.4	1594.9	3330.6	9480.8	16749.6	16649.9
77.5°	818.0	830.7	882.9	875.0	930.4	1090.2	1729.4	6118.5	10858.9	10181.7
80°	693.0	699.4	756.3	746.8	808.5	789.5	882.9	3118.6	4605.9	3901.8
82.5°	240.5	297.5	577.5	594.9	617.1	477.8	509.5	1272.1	1406.6	1077.5
85°	117.1	125.0	294.3	417.7	416.1	240.5	248.4	454.1	443.0	348.1
87.5°	19.0	23.7	34.8	163.0	129.7	63.3	85.4	88.6	91.8	79.1
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°
3596.4	0°	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4	3596.4
3724.6	2.5°	3636.0	3556.9	3390.7	3237.3	3117.0	3001.5	2936.6	2881.3	2849.6	2843.3
3898.6	5°	3734.1	3571.1	3268.9	3014.2	2848.0	2724.6	2659.7	2618.6	2598.0	2585.4
4132.8	7.5°	3874.9	3636.0	3205.6	2916.1	2742.0	2653.4	2620.2	2613.9	2612.3	2613.9
4416.0	10°	4069.5	3742.0	3199.3	2892.3	2746.8	2697.7	2696.1	2697.7	2704.0	2705.6
4724.6	12.5°	4280.0	3851.2	3224.6	2912.9	2806.9	2780.0	2775.2	2773.7	2778.4	2781.6
5036.3	15°	4509.4	3995.2	3267.3	2957.2	2873.3	2844.9	2840.1	2830.6	2829.0	2827.5
5363.8	17.5°	4745.1	4137.6	3314.8	3004.7	2916.1	2876.5	2859.1	2837.0	2819.6	2814.8
5702.4	20°	4984.1	4278.4	3348.0	3028.4	2919.2	2863.9	2829.0	2791.1	2761.0	2743.6
6044.2	22.5°	5238.8	4425.5	3368.6	3022.1	2890.8	2814.8	2751.5	2707.2	2661.3	2631.3
6389.1	25°	5487.2	4553.7	3367.0	2988.9	2835.4	2738.9	2658.2	2601.2	2537.9	2506.3
6745.1	27.5°	5726.1	4669.2	3327.5	2930.3	2756.3	2648.7	2552.2	2484.1	2422.4	2392.3
7104.3	30°	5973.0	4765.7	3265.7	2844.9	2662.9	2544.2	2438.2	2379.7	2324.3	2295.8
7484.0	32.5°	6218.2	4854.3	3178.7	2738.9	2555.3	2441.4	2337.0	2283.2	2249.9	2249.9
7892.2	35°	6477.7	4916.0	3063.2	2615.4	2441.4	2332.2	2249.9	2218.3	2215.1	2196.1
8324.2	37.5°	6751.4	4955.6	2922.4	2488.9	2329.1	2226.2	2200.9	2162.9	2131.3	2090.1
8798.8	40°	7039.4	4995.1	2753.1	2357.5	2210.4	2153.4	2142.4	2091.7	2001.5	1900.3
9336.8	42.5°	7389.1	5022.0	2577.5	2226.2	2085.4	2066.4	2082.2	1995.2	1851.2	1775.3
9985.5	45°	7794.1	5066.3	2416.1	2096.5	1957.2	1957.2	2023.7	1909.8	1791.1	1743.6
10726.0	47.5°	8319.4	5169.2	2265.8	1954.1	1838.6	1870.2	1893.9	1806.9	1740.5	1681.9
11627.9	50°	9078.9	5416.0	2110.7	1810.1	1748.4	1811.7	1778.4	1727.8	1650.3	1602.8
13061.4	52.5°	10021.9	5561.6	1973.1	1680.3	1670.8	1734.1	1686.7	1639.2	1580.7	1517.4
14148.4	55°	10664.3	5588.5	1857.5	1585.4	1618.6	1612.3	1594.9	1552.2	1520.5	1436.7
15221.2	57.5°	11382.6	5642.3	1762.6	1528.4	1585.4	1515.8	1509.5	1473.1	1431.9	1375.0
16529.7	60°	12241.8	5726.1	1680.3	1506.3	1556.9	1452.5	1420.9	1406.6	1365.5	1337.0
18104.0	62.5°	13178.5	5802.1	1596.5	1509.5	1523.7	1390.8	1343.3	1338.6	1313.3	1303.8
19581.8	65°	13817.7	5594.8	1492.1	1506.3	1471.5	1327.5	1267.4	1265.8	1245.2	1242.1
20222.6	67.5°	13594.6	4938.2	1351.2	1462.0	1417.7	1264.2	1197.8	1191.4	1164.5	1166.1
19553.3	70°	12477.5	4001.5	1156.6	1352.8	1351.2	1207.2	1125.0	1104.4	1068.0	1074.3
17001.2	72.5°	10382.7	2965.1	895.5	1170.9	1245.2	1155.0	1041.1	1007.9	962.0	968.3
12550.3	75°	7498.2	2015.8	651.9	890.8	1083.8	1093.3	958.8	901.9	846.5	856.0
6985.6	77.5°	3836.9	1142.4	479.4	613.9	851.2	993.6	884.5	808.5	795.9	884.5
2014.2	80°	1251.6	572.8	332.3	430.4	558.5	813.3	775.3	688.3	685.1	705.7
422.5	82.5°	373.4	242.1	213.6	283.2	308.5	623.4	669.3	520.6	447.8	471.5
140.8	85°	128.2	117.1	121.8	140.8	147.1	365.5	468.3	344.9	325.9	359.2
31.6	87.5°	30.1	41.1	34.8	31.6	31.6	88.6	182.0	144.0	199.4	132.9
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>
3596.4
2843.3
2583.8
2618.6
2707.2
2783.2
2825.9
2819.6
2749.9
2632.8
2506.3
2390.8
2294.2
2251.5
2191.4
2083.8
1886.0
1776.9
1751.5
1680.3
1598.1
1504.7
1438.3
1356.0
1344.9
1303.8
1240.5
<i>1166.1</i>
1080.7
966.7
859.2
871.8
606.0
487.3
354.4
128.2
0.0

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