

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: P951879

Luminaire Tested: **GALN-SB5D-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951879
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-SB5D-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31870 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

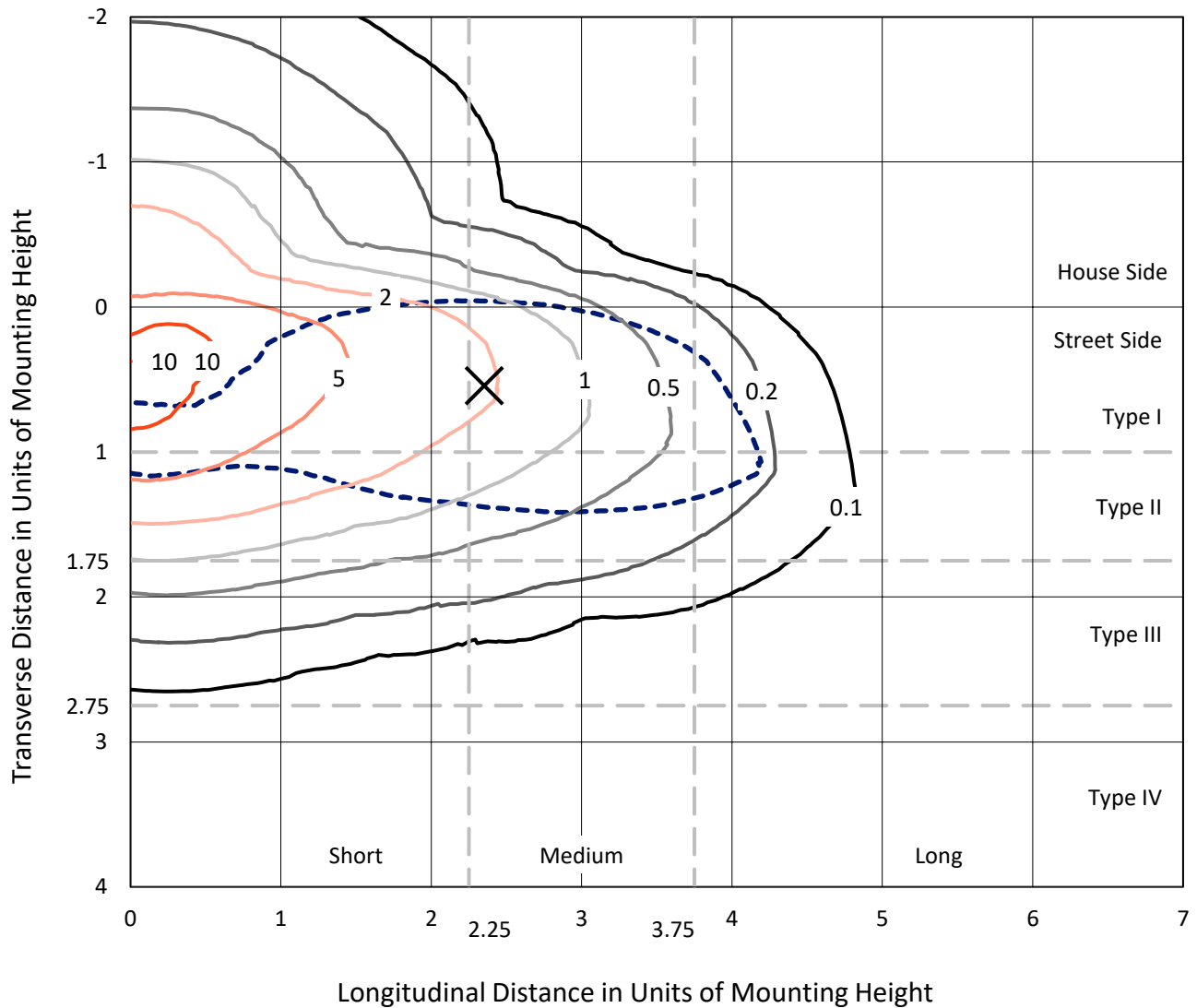
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

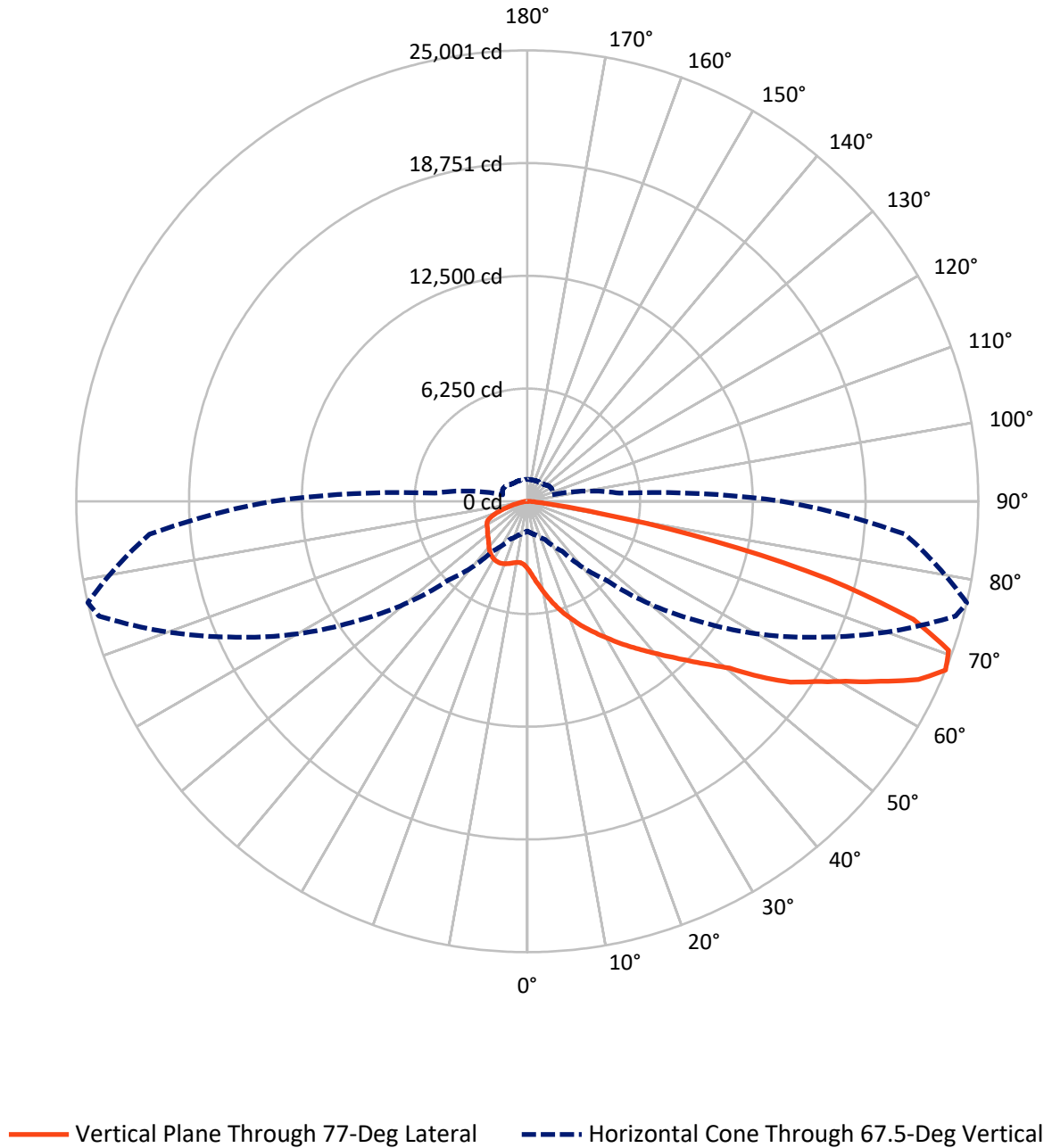
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	6028.5	0.0	6028.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	25841.5	0.0	25841.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	31870.0	0.0	31870.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.8	1.3
10°-20°	1439.9	4.5
20°-30°	2718.7	8.5
30°-40°	4379.9	13.7
40°-50°	5990.8	18.8
50°-60°	6757.7	21.2
60°-70°	6307.5	19.8
70°-80°	3457.6	10.8
80°-90°	417.1	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°	31870.0	100.0
0°-180°	31870.0	100.0



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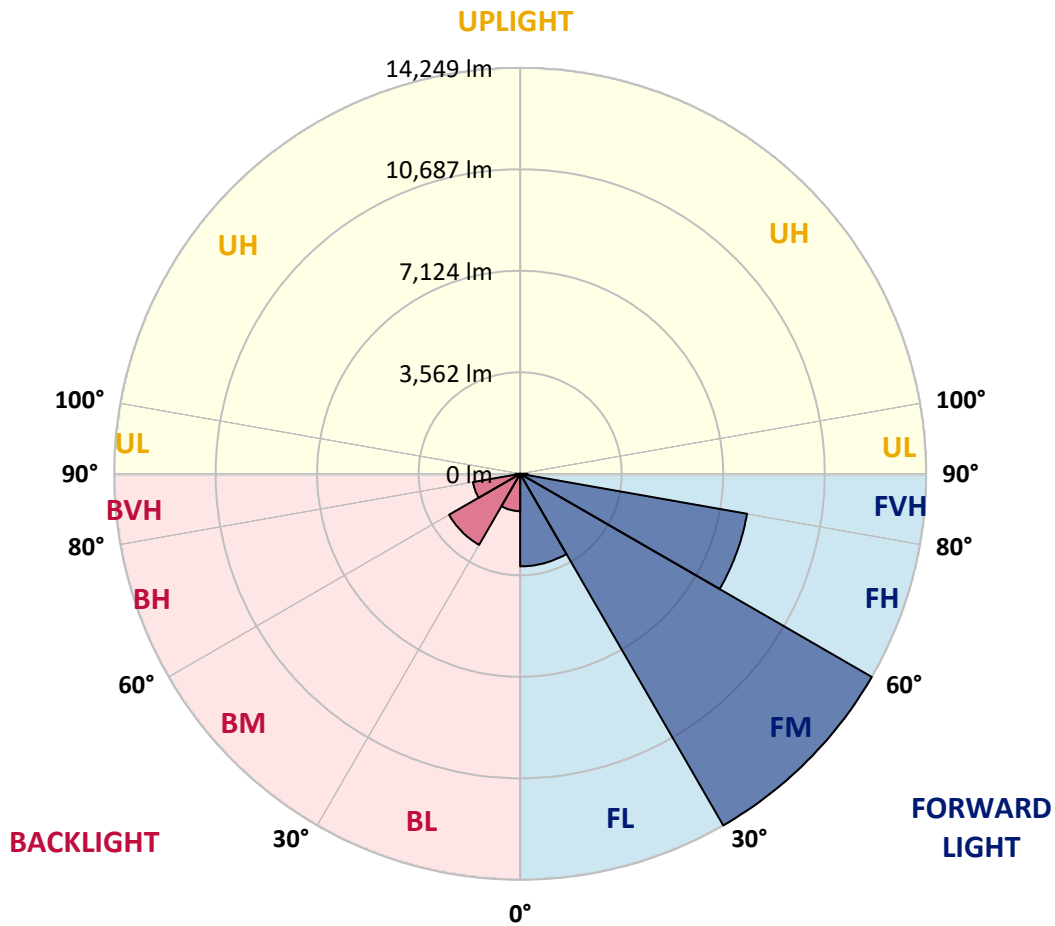
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3248.7	10.2			
FM (30°-60°)	14248.7	44.7			
FH (60°-80°)	8083.2	25.4			G4/12000
FVH (80°-90°)	260.8	0.8			G3/500
BL (0°-30°)	1310.7	4.1	B3/2500		
BM (30°-60°)	2879.7	9.0	B3/5000		
BH (60°-80°)	1681.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	156.2	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°	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3
2.5°	4682.0	4714.9	4673.8	4673.8	4535.6	4463.2	4325.0	4219.7	4030.5	3997.6
5°	5534.2	5575.3	5517.7	5493.0	5330.2	5180.5	4948.5	4719.8	4382.6	4348.0
7.5°	6193.8	6246.5	6195.5	6169.2	6024.4	5856.6	5585.2	5266.0	4790.6	4723.1
10°	6731.8	6740.0	6723.6	6733.4	6619.9	6481.7	6203.7	5831.9	5238.0	5145.9
12.5°	7036.1	7074.0	7106.9	7166.1	7146.4	7060.8	6810.8	6366.6	5711.8	5593.4
15°	7179.3	7245.1	7319.1	7455.7	7565.9	7587.3	7396.4	6940.7	6193.8	6050.7
17.5°	7230.3	7292.8	7409.6	7607.0	7843.9	8003.5	7917.9	7498.4	6670.9	6506.4
20°	7488.6	7506.6	7577.4	7764.9	8021.6	8286.4	8350.6	8034.7	7143.1	6957.2
22.5°	8041.3	8005.1	8024.9	8110.4	8294.7	8551.3	8697.7	8508.5	7628.4	7414.5
25°	8954.3	8849.1	8743.8	8645.1	8738.8	8883.6	9049.8	8982.3	8136.7	7865.3
27.5°	10107.6	9979.3	9747.3	9423.2	9309.7	9360.7	9434.7	9421.6	8607.2	8332.5
30°	11242.7	11093.0	10816.6	10347.8	10048.3	9913.4	9857.5	9819.7	9118.9	8826.0
32.5°	12149.2	12030.7	11759.3	11234.5	10800.2	10569.8	10384.0	10249.1	9653.5	9360.7
35°	12942.1	12831.9	12521.0	11948.5	11476.3	11231.2	10987.7	10699.8	10209.6	9913.4
37.5°	13666.0	13555.7	13129.6	12534.1	12058.7	11889.2	11672.1	11183.5	10767.3	10487.6
40°	14123.3	14098.6	13700.5	13026.0	12532.5	12448.6	12376.2	11744.5	11385.8	11125.9
42.5°	14240.1	14294.4	13978.5	13424.1	12953.6	12886.2	13055.6	12379.5	12080.1	11831.7
45°	13958.8	14115.1	13907.8	13531.1	13253.0	13216.8	13657.7	13073.7	12848.3	12621.3
47.5°	13246.4	13511.3	13425.8	13373.1	13333.6	13489.9	14187.5	13810.7	13718.6	13521.2
50°	11808.6	12310.4	12460.1	12792.4	13174.1	13702.1	14669.5	14615.2	14735.3	14536.2
52.5°	9322.9	10013.8	10882.4	11714.8	12683.8	13631.4	15199.2	15770.1	16276.7	16168.2
55°	7695.8	8006.8	8674.7	10201.3	11732.9	13333.6	15437.7	16702.8	17806.7	17709.6
57.5°	6445.6	6723.6	7134.9	8409.8	10295.1	12657.5	15585.8	17272.0	18854.6	18844.8
60°	5104.8	5399.3	5820.4	6723.6	8615.5	11489.5	15552.9	17920.2	20192.1	20274.4
62.5°	3591.3	3915.4	4382.6	5224.9	6899.6	9976.0	14881.7	18389.1	21766.5	21990.2
65°	2360.7	2574.6	2926.7	3653.8	5141.0	8029.8	13600.1	18449.9	23451.1	23829.5
67.5°	1655.0	1737.2	1944.5	2339.4	3388.9	6157.7	11558.6	17819.9	24574.7	25000.8
70°	1291.4	1332.5	1437.8	1595.8	2128.8	4140.7	8857.3	16181.3	24334.5	24778.7
72.5°	1115.4	1154.9	1194.4	1214.1	1428.0	2556.5	5999.7	13529.4	22072.5	22373.5
75°	1011.7	1021.6	1054.5	1047.9	1089.1	1658.3	3463.0	9857.5	17415.2	17311.5
77.5°	850.5	863.7	918.0	909.7	967.3	1133.5	1798.1	6361.7	11290.4	10586.3
80°	720.6	727.1	786.4	776.5	840.7	820.9	918.0	3242.5	4788.9	4056.8
82.5°	250.1	309.3	600.5	618.6	641.6	496.8	529.7	1322.7	1462.5	1120.3
85°	121.7	130.0	306.0	434.3	432.7	250.1	258.3	472.1	460.6	361.9
87.5°	19.7	24.7	36.2	169.4	134.9	65.8	88.8	92.1	95.4	82.3
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°
3739.3	0°	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3	3739.3
3872.6	2.5°	3780.5	3698.2	3525.5	3365.9	3240.9	3120.8	3053.3	2995.8	2962.8	2956.3
4053.6	5°	3882.5	3713.0	3398.8	3133.9	2961.2	2832.9	2765.4	2722.7	2701.3	2688.1
4297.0	7.5°	4028.9	3780.5	3333.0	3031.9	2851.0	2758.9	2724.3	2717.7	2716.1	2717.7
4591.5	10°	4231.2	3890.7	3326.4	3007.3	2855.9	2804.9	2803.3	2804.9	2811.5	2813.1
4912.3	12.5°	4450.0	4004.2	3352.7	3028.7	2918.4	2890.5	2885.5	2883.9	2888.8	2892.1
5236.4	15°	4688.6	4153.9	3397.2	3074.7	2987.5	2957.9	2953.0	2943.1	2941.5	2939.8
5576.9	17.5°	4933.7	4302.0	3446.5	3124.1	3031.9	2990.8	2972.7	2949.7	2931.6	2926.7
5929.0	20°	5182.1	4448.4	3481.1	3148.7	3035.2	2977.7	2941.5	2902.0	2870.7	2852.6
6284.3	22.5°	5447.0	4601.4	3502.4	3142.2	3005.6	2926.7	2860.9	2814.8	2767.1	2735.8
6643.0	25°	5705.3	4734.6	3500.8	3107.6	2948.0	2847.7	2763.8	2704.6	2638.8	2605.9
7013.1	27.5°	5953.7	4854.7	3459.7	3046.7	2865.8	2753.9	2653.6	2582.8	2518.7	2487.4
7386.6	30°	6210.3	4955.1	3395.5	2957.9	2768.7	2645.3	2535.1	2474.2	2416.7	2387.1
7781.4	32.5°	6465.3	5047.2	3305.0	2847.7	2656.9	2538.4	2429.8	2373.9	2339.4	2339.4
8205.8	35°	6735.1	5111.4	3184.9	2719.4	2538.4	2424.9	2339.4	2306.4	2303.2	2283.4
8654.9	37.5°	7019.7	5152.5	3038.5	2587.8	2421.6	2314.7	2288.4	2248.9	2216.0	2173.2
9148.5	40°	7319.1	5193.6	2862.5	2451.2	2298.2	2239.0	2227.5	2174.8	2081.1	1975.8
9707.8	42.5°	7682.7	5221.6	2679.9	2314.7	2168.3	2148.5	2165.0	2074.5	1924.8	1845.8
10382.3	45°	8103.8	5267.7	2512.1	2179.8	2035.0	2035.0	2104.1	1985.7	1862.3	1812.9
11152.2	47.5°	8650.0	5374.6	2355.8	2031.7	1911.6	1944.5	1969.2	1878.7	1809.6	1748.8
12089.9	50°	9439.7	5631.2	2194.6	1882.0	1817.8	1883.7	1849.1	1796.5	1715.9	1666.5
13580.4	52.5°	10420.1	5782.6	2051.5	1747.1	1737.2	1803.0	1753.7	1704.3	1643.5	1577.7
14710.6	55°	11088.1	5810.5	1931.4	1648.4	1683.0	1676.4	1658.3	1613.9	1581.0	1493.8
15826.0	57.5°	11834.9	5866.5	1832.7	1589.2	1648.4	1576.0	1569.4	1531.6	1488.8	1429.6
17186.5	60°	12728.2	5953.7	1747.1	1566.1	1618.8	1510.2	1477.3	1462.5	1419.7	1390.1
18823.4	62.5°	13702.1	6032.6	1659.9	1569.4	1584.2	1446.1	1396.7	1391.8	1365.4	1355.6
20359.9	65°	14366.8	5817.1	1551.3	1566.1	1530.0	1380.2	1317.7	1316.1	1294.7	1291.4
21026.2	67.5°	14134.8	5134.4	1404.9	1520.1	1474.0	1314.4	1245.4	1238.8	1210.8	1212.4
20330.3	70°	12973.4	4160.5	1202.6	1406.6	1404.9	1255.2	1169.7	1148.3	1110.5	1117.0
17676.7	72.5°	10795.2	3082.9	931.1	1217.4	1294.7	1200.9	1082.5	1047.9	1000.2	1006.8
13049.0	75°	7796.2	2095.9	677.8	926.2	1126.9	1136.8	996.9	937.7	880.1	890.0
7263.2	77.5°	3989.4	1187.8	498.5	638.3	885.1	1033.1	919.6	840.7	827.5	919.6
2094.2	80°	1301.3	595.5	345.5	447.5	580.7	845.6	806.1	715.6	712.3	733.7
439.2	82.5°	388.2	251.7	222.1	294.5	320.8	648.2	695.9	541.2	465.6	490.2
146.4	85°	133.3	121.7	126.7	146.4	153.0	380.0	487.0	358.6	338.9	373.4
32.9	87.5°	31.3	42.8	36.2	32.9	32.9	92.1	189.2	149.7	207.3	138.2
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>
3739.3
2956.3
2686.5
2722.7
2814.8
2893.8
2938.2
2931.6
2859.2
2737.5
2605.9
2485.8
2385.4
2341.0
2278.5
2166.6
1961.0
1847.5
1821.1
1747.1
1661.6
1564.5
1495.4
1409.9
1398.3
1355.6
1289.8
1212.4
1123.6
1005.2
893.3
906.5
630.1
506.7
368.5
133.3
0.0

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