

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: P951417

Luminaire Tested: **GALN-SB5C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951417
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-SB5C-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33507 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

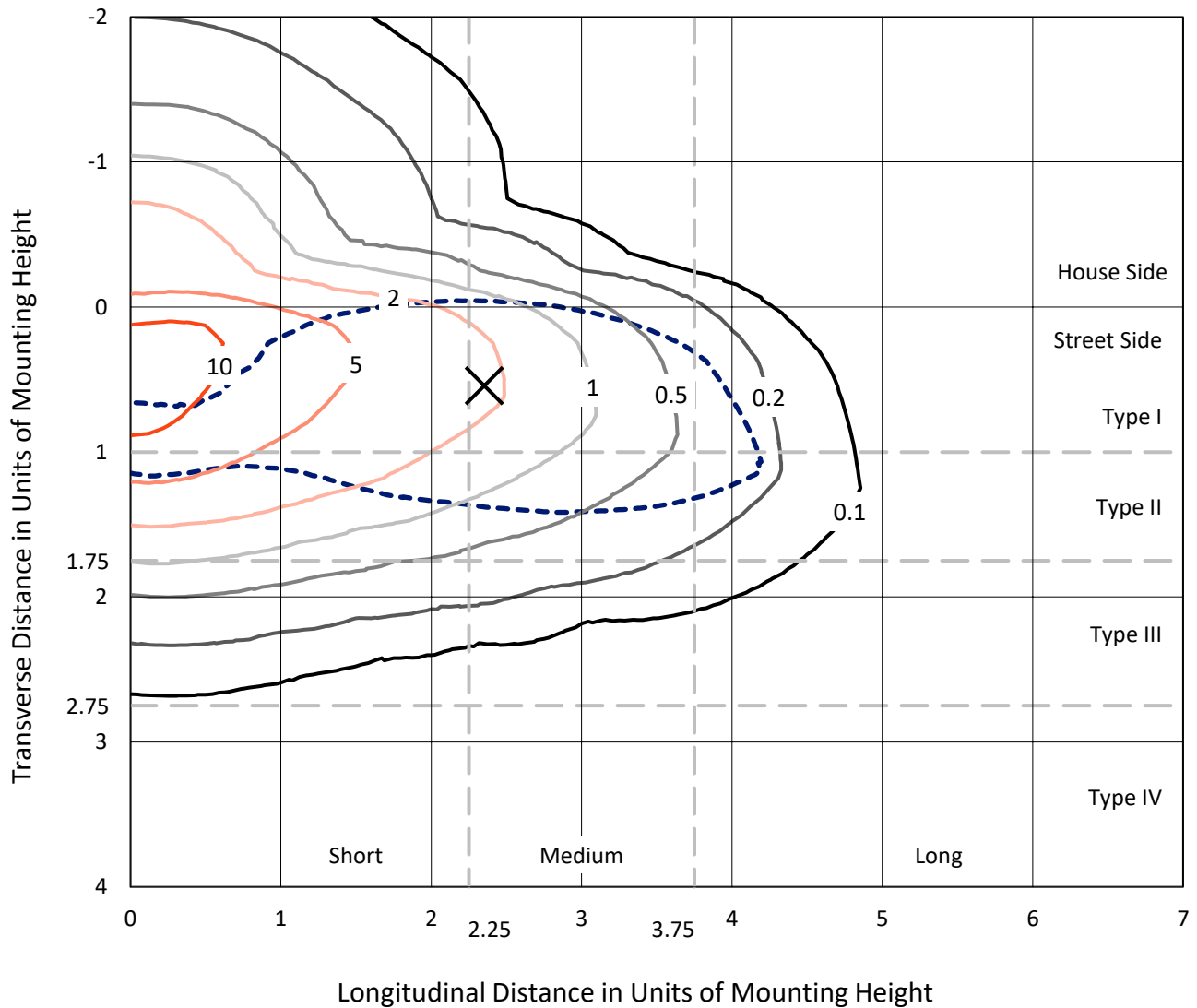
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

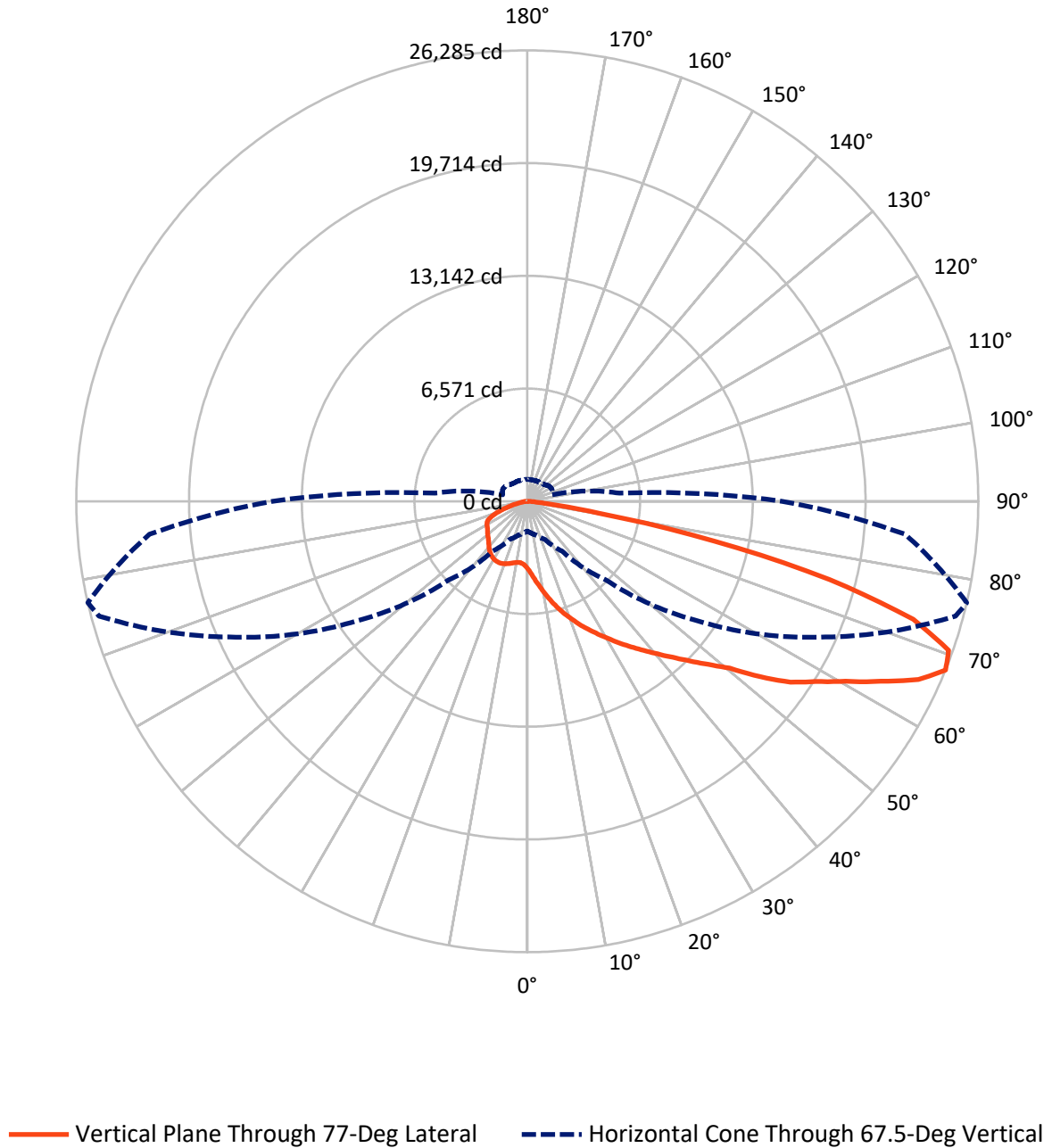
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	6338.2	0.0	6338.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	27168.8	0.0	27168.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	33507.0	0.0	33507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.4	1.3
10°-20°	1513.9	4.5
20°-30°	2858.4	8.5
30°-40°	4604.8	13.7
40°-50°	6298.6	18.8
50°-60°	7104.8	21.2
60°-70°	6631.5	19.8
70°-80°	3635.2	10.8
80°-90°	438.5	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°	33507.0	100.0
0°-180°	33507.0	100.0

Coefficient of Utilization



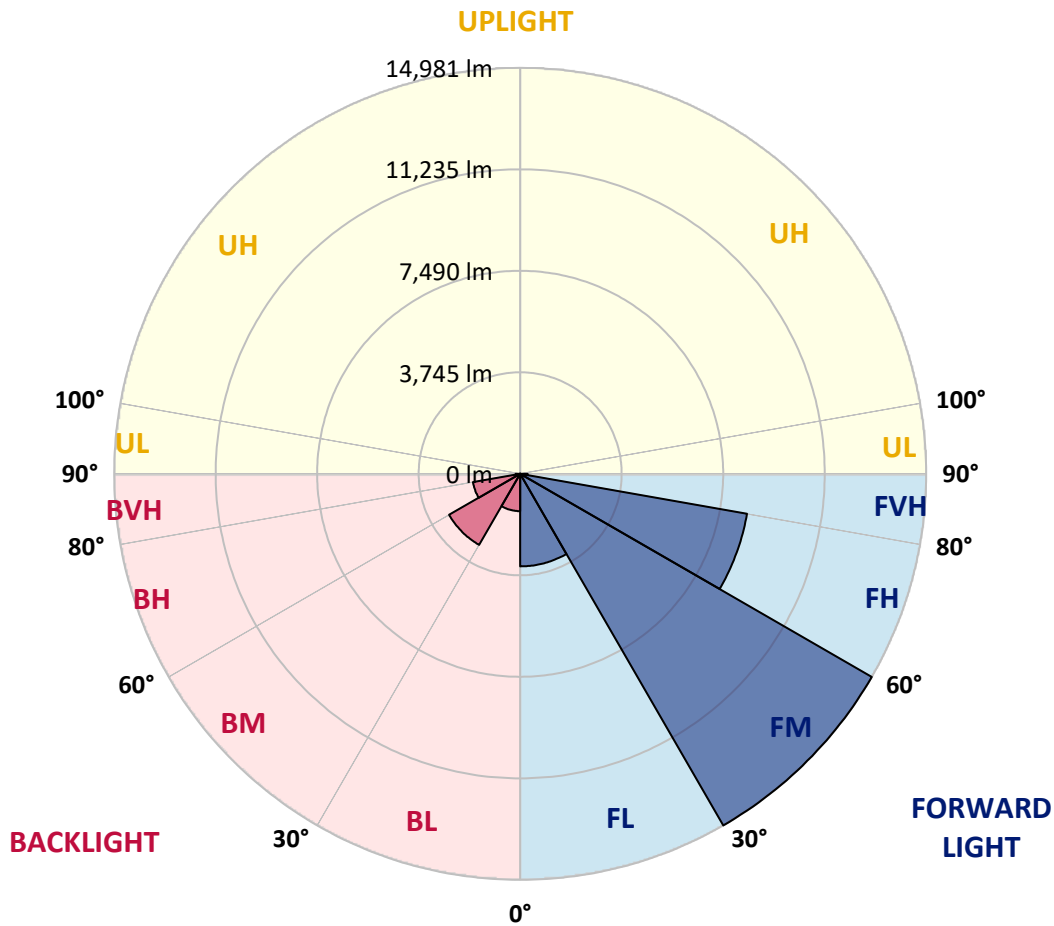
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3415.6	10.2			
FM (30°-60°)	14980.6	44.7			
FH (60°-80°)	8498.4	25.4			G4/12000
FVH (80°-90°)	274.2	0.8			G3/500
BL (0°-30°)	1378.1	4.1	B3/2500		
BM (30°-60°)	3027.6	9.0	B3/5000		
BH (60°-80°)	1768.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	164.3	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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 CATALOG NUMBER: GALN-SB5C-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4
2.5°	4922.5	4957.1	4913.8	4913.8	4768.5	4692.4	4547.2	4436.5	4237.6	4203.0
5°	5818.4	5861.7	5801.1	5775.2	5603.9	5446.6	5202.7	4962.3	4607.7	4571.4
7.5°	6512.0	6567.3	6513.7	6486.1	6333.8	6157.4	5872.0	5536.5	5036.6	4965.7
10°	7077.6	7086.2	7068.9	7079.3	6960.0	6814.7	6522.4	6131.5	5507.1	5410.2
12.5°	7397.6	7437.3	7471.9	7534.2	7513.4	7423.5	7160.6	6693.6	6005.2	5880.7
15°	7548.0	7617.2	7695.1	7838.6	7954.5	7977.0	7776.3	7297.2	6512.0	6361.5
17.5°	7601.7	7667.4	7790.2	7997.7	8246.8	8414.6	8324.6	7883.6	7013.6	6840.6
20°	7873.2	7892.2	7966.6	8163.8	8433.6	8712.1	8779.5	8447.4	7510.0	7314.5
22.5°	8454.4	8416.3	8437.1	8527.0	8720.7	8990.5	9144.5	8945.6	8020.2	7795.4
25°	9414.3	9303.6	9192.9	9089.1	9187.7	9339.9	9514.6	9443.7	8554.7	8269.3
27.5°	10626.7	10491.8	10248.0	9907.2	9787.9	9841.5	9919.3	9905.5	9049.3	8760.5
30°	11820.2	11662.8	11372.2	10879.3	10564.5	10422.7	10363.8	10324.1	9587.2	9279.4
32.5°	12773.2	12648.7	12363.3	11811.5	11354.9	11112.8	10917.3	10775.5	10149.4	9841.5
35°	13606.9	13491.0	13164.1	12562.2	12065.8	11808.1	11552.1	11249.4	10734.0	10422.7
37.5°	14367.9	14252.0	13804.0	13177.9	12678.1	12499.9	12271.6	11757.9	11320.3	11026.3
40°	14848.7	14822.8	14404.2	13695.1	13176.2	13088.0	13011.9	12347.7	11970.7	11697.4
42.5°	14971.5	15028.6	14696.5	14113.6	13619.0	13548.1	13726.2	13015.3	12700.6	12439.4
45°	14675.8	14840.1	14622.2	14226.1	13933.8	13895.7	14359.3	13745.2	13508.3	13269.6
47.5°	13926.8	14205.3	14115.4	14060.0	14018.5	14182.8	14916.2	14520.1	14423.2	14215.7
50°	12415.2	12942.7	13100.1	13449.5	13850.7	14406.0	15423.0	15365.9	15492.2	15282.9
52.5°	9801.7	10528.2	11441.4	12316.6	13335.3	14331.6	15979.9	16580.1	17112.8	16998.6
55°	8091.1	8418.0	9120.3	10725.3	12335.6	14018.5	16230.7	17560.8	18721.3	18619.3
57.5°	6776.6	7068.9	7501.3	8841.8	10823.9	13307.6	16386.4	18159.2	19823.1	19812.7
60°	5367.0	5676.6	6119.4	7068.9	9058.0	12079.6	16351.8	18840.7	21229.3	21315.8
62.5°	3775.7	4116.5	4607.7	5493.3	7254.0	10488.4	15646.1	19333.6	22884.5	23119.7
65°	2482.0	2706.8	3077.0	3841.5	5405.0	8442.2	14298.7	19397.6	24655.6	25053.5
67.5°	1740.0	1826.5	2044.4	2459.5	3563.0	6473.9	12152.3	18735.2	25837.0	26284.9
70°	1357.7	1401.0	1511.7	1677.7	2238.1	4353.4	9312.2	17012.5	25584.4	26051.4
72.5°	1172.7	1214.2	1255.7	1276.5	1501.3	2687.8	6307.9	14224.3	23206.2	23522.7
75°	1063.7	1074.1	1108.7	1101.8	1145.0	1743.5	3640.8	10363.8	18309.7	18200.7
77.5°	894.2	908.0	965.1	956.5	1017.0	1191.7	1890.5	6688.4	11870.3	11130.1
80°	757.6	764.5	826.8	816.4	883.8	863.1	965.1	3409.1	5034.9	4265.2
82.5°	262.9	325.2	631.3	650.3	674.5	522.3	556.9	1390.6	1537.6	1177.9
85°	128.0	136.6	321.7	456.6	454.9	262.9	271.5	496.4	484.3	380.5
87.5°	20.8	25.9	38.1	178.2	141.8	69.2	93.4	96.9	100.3	86.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951417
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3931.4	0°	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4	3931.4
4071.5	2.5°	3974.7	3888.2	3706.6	3538.8	3407.3	3281.1	3210.2	3149.6	3115.0	3108.1
4261.8	5°	4081.9	3903.7	3573.4	3294.9	3113.3	2978.4	2907.5	2862.5	2840.0	2826.2
4517.8	7.5°	4235.8	3974.7	3504.2	3187.7	2997.4	2900.6	2864.2	2857.3	2855.6	2857.3
4827.4	10°	4448.6	4090.5	3497.3	3161.7	3002.6	2949.0	2947.3	2949.0	2955.9	2957.6
5164.6	12.5°	4678.6	4209.9	3525.0	3184.2	3068.3	3038.9	3033.7	3032.0	3037.2	3040.7
5505.4	15°	4929.4	4367.3	3571.7	3232.6	3141.0	3109.8	3104.7	3094.3	3092.5	3090.8
5863.4	17.5°	5187.1	4522.9	3623.5	3284.5	3187.7	3144.4	3125.4	3101.2	3082.2	3077.0
6233.5	20°	5448.3	4676.9	3659.9	3310.5	3191.1	3130.6	3092.5	3051.0	3018.2	2999.2
6607.1	22.5°	5726.8	4837.7	3682.3	3303.6	3160.0	3077.0	3007.8	2959.4	2909.2	2876.3
6984.2	25°	5998.3	4977.8	3680.6	3267.2	3099.5	2994.0	2905.8	2843.5	2774.3	2739.7
7373.3	27.5°	6259.5	5104.1	3637.4	3203.2	3013.0	2895.4	2789.9	2715.5	2648.0	2615.2
7766.0	30°	6529.3	5209.6	3569.9	3109.8	2910.9	2781.2	2665.3	2601.3	2540.8	2509.7
8181.1	32.5°	6797.4	5306.5	3474.8	2994.0	2793.3	2668.8	2554.6	2495.8	2459.5	2459.5
8627.3	35°	7081.0	5373.9	3348.5	2859.1	2668.8	2549.5	2459.5	2424.9	2421.5	2400.7
9099.5	37.5°	7380.3	5417.2	3194.6	2720.7	2546.0	2433.6	2405.9	2364.4	2329.8	2284.8
9618.4	40°	7695.1	5460.4	3009.5	2577.1	2416.3	2354.0	2341.9	2286.5	2188.0	2077.3
10206.5	42.5°	8077.3	5489.8	2817.5	2433.6	2279.6	2258.9	2276.2	2181.0	2023.6	1940.6
10915.6	45°	8520.1	5538.2	2641.1	2291.7	2139.5	2139.5	2212.2	2087.6	1957.9	1906.0
11725.1	47.5°	9094.3	5650.6	2476.8	2136.1	2009.8	2044.4	2070.3	1975.2	1902.6	1838.6
12710.9	50°	9924.5	5920.5	2307.3	1978.7	1911.2	1980.4	1944.1	1888.7	1804.0	1752.1
14278.0	52.5°	10955.4	6079.6	2156.8	1836.8	1826.5	1895.7	1843.8	1791.9	1727.9	1658.7
15466.2	55°	11657.6	6109.0	2030.6	1733.1	1769.4	1762.5	1743.5	1696.8	1662.2	1570.5
16638.9	57.5°	12442.8	6167.8	1926.8	1670.8	1733.1	1657.0	1650.1	1610.3	1565.3	1503.0
18069.3	60°	13382.0	6259.5	1836.8	1646.6	1701.9	1587.8	1553.2	1537.6	1492.7	1461.5
19790.2	62.5°	14406.0	6342.5	1745.2	1650.1	1665.6	1520.3	1468.4	1463.3	1435.6	1425.2
21405.7	65°	15104.7	6115.9	1631.0	1646.6	1608.5	1451.1	1385.4	1383.7	1361.2	1357.7
22106.2	67.5°	14860.8	5398.1	1477.1	1598.2	1549.7	1382.0	1309.3	1302.4	1273.0	1274.7
21374.6	70°	13639.7	4374.2	1264.3	1478.8	1477.1	1319.7	1229.8	1207.3	1167.5	1174.4
18584.7	72.5°	11349.7	3241.3	979.0	1279.9	1361.2	1262.6	1138.1	1101.8	1051.6	1058.5
13719.3	75°	8196.6	2203.5	712.6	973.8	1184.8	1195.2	1048.1	985.9	925.3	935.7
7636.2	77.5°	4194.3	1248.8	524.1	671.1	930.5	1086.2	966.9	883.8	870.0	966.9
2201.8	80°	1368.1	626.1	363.2	470.5	610.6	889.0	847.5	752.4	748.9	771.4
461.8	82.5°	408.2	264.6	233.5	309.6	337.3	681.5	731.6	569.0	489.5	515.4
153.9	85°	140.1	128.0	133.2	153.9	160.9	399.5	512.0	377.1	356.3	392.6
34.6	87.5°	32.9	45.0	38.1	34.6	34.6	96.9	198.9	157.4	217.9	145.3
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>
3931.4
3108.1
2824.5
2862.5
2959.4
3042.4
3089.1
3082.2
3006.1
2878.1
2739.7
2613.4
2507.9
2461.2
2395.5
2277.9
2061.7
1942.4
1914.7
1836.8
1746.9
1644.9
1572.2
1482.3
1470.2
1425.2
1356.0
1274.7
1181.3
1056.8
939.2
953.0
662.4
532.7
387.4
140.1
0.0

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