

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: P956415

Luminaire Tested: **GALN-SB9A-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956415
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-SB9A-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36188 lumens
Efficiency: N/A
Efficacy: 141.6 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

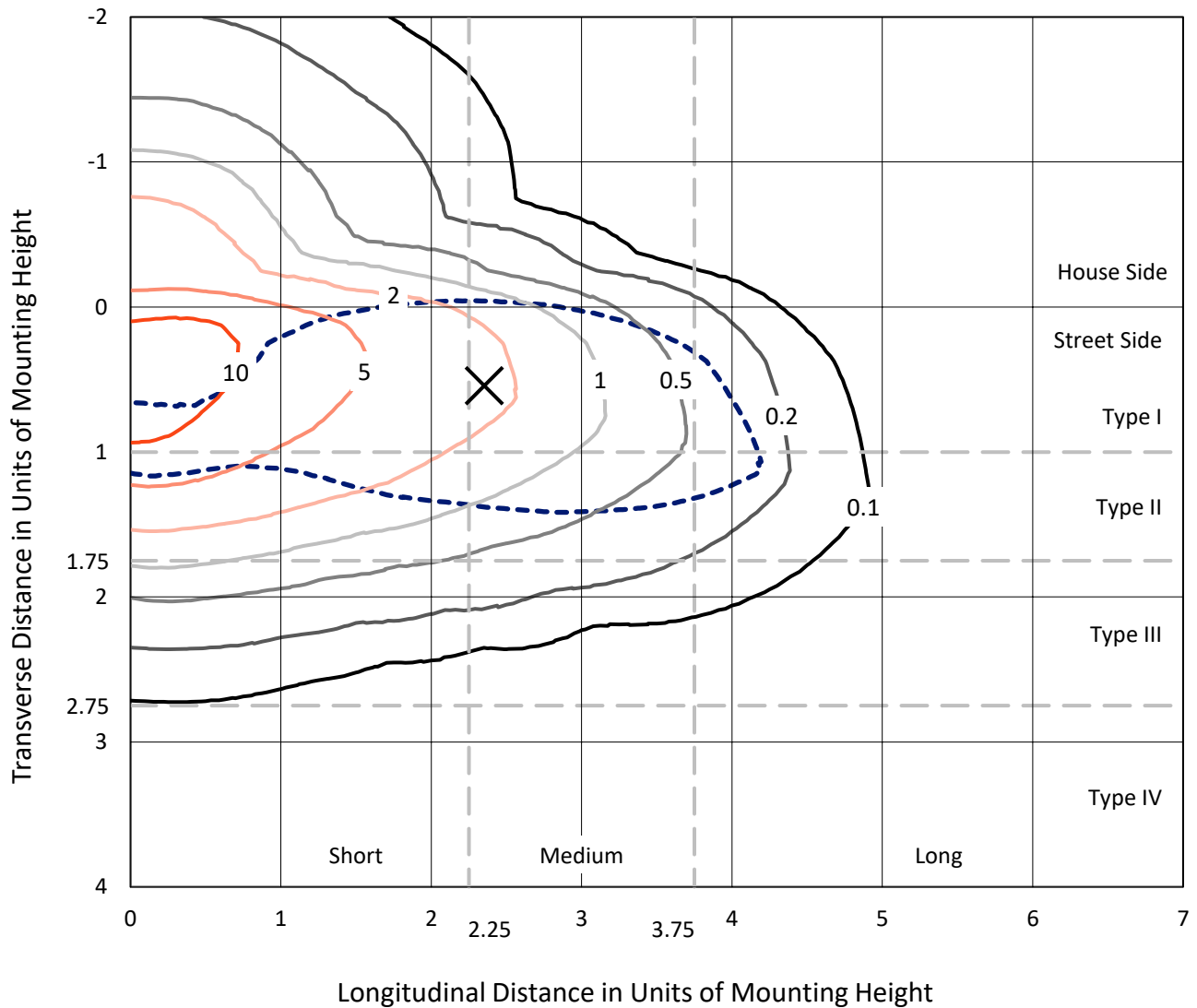
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

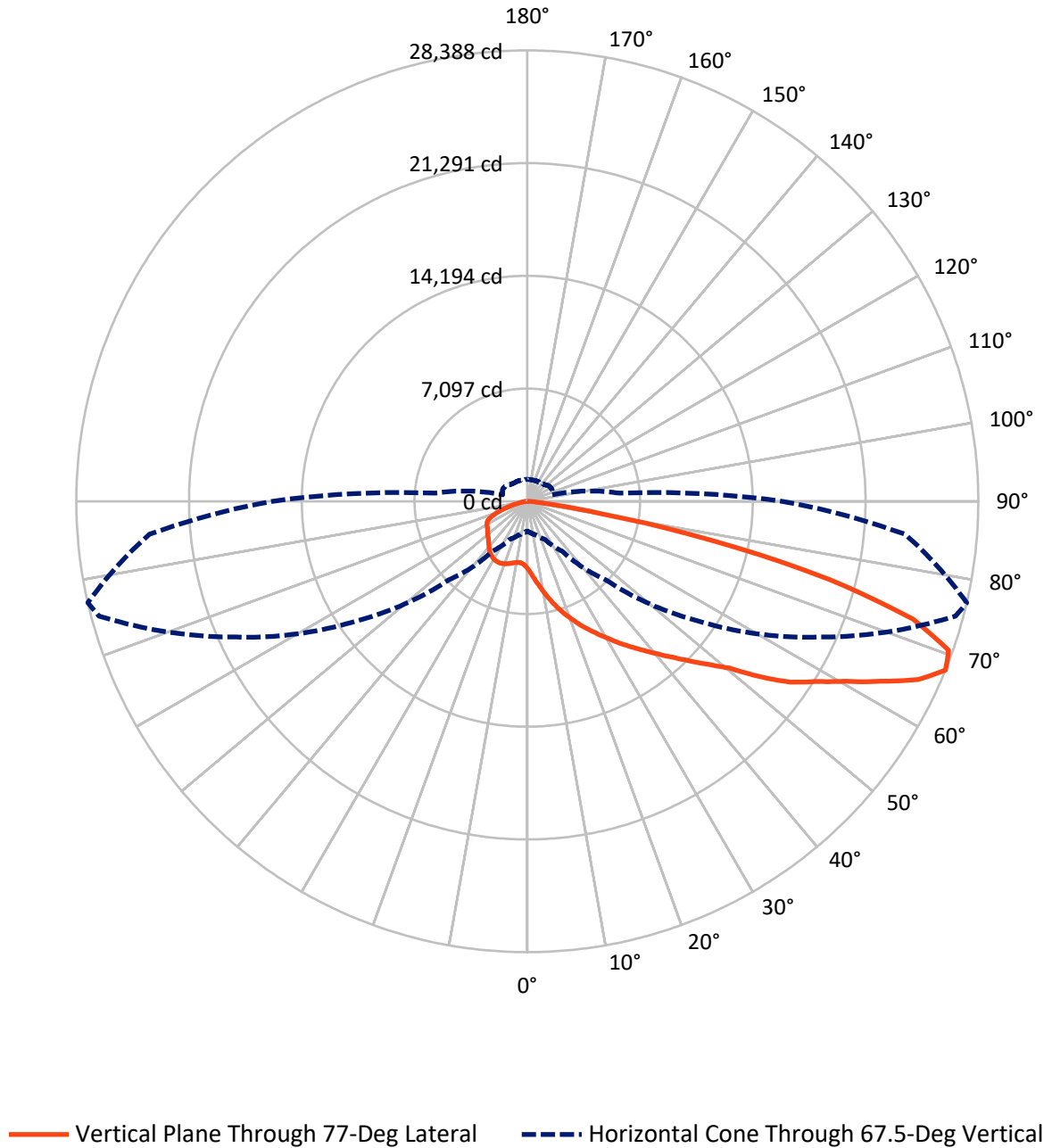
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	6845.3	0.0	6845.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	29342.7	0.0	29342.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	36188.0	0.0	36188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.1	1.3
10°-20°	1635.0	4.5
20°-30°	3087.1	8.5
30°-40°	4973.3	13.7
40°-50°	6802.5	18.8
50°-60°	7673.3	21.2
60°-70°	7162.1	19.8
70°-80°	3926.0	10.8
80°-90°	473.6	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°	36188.0	100.0
0°-180°	36188.0	100.0

Coefficient of Utilization



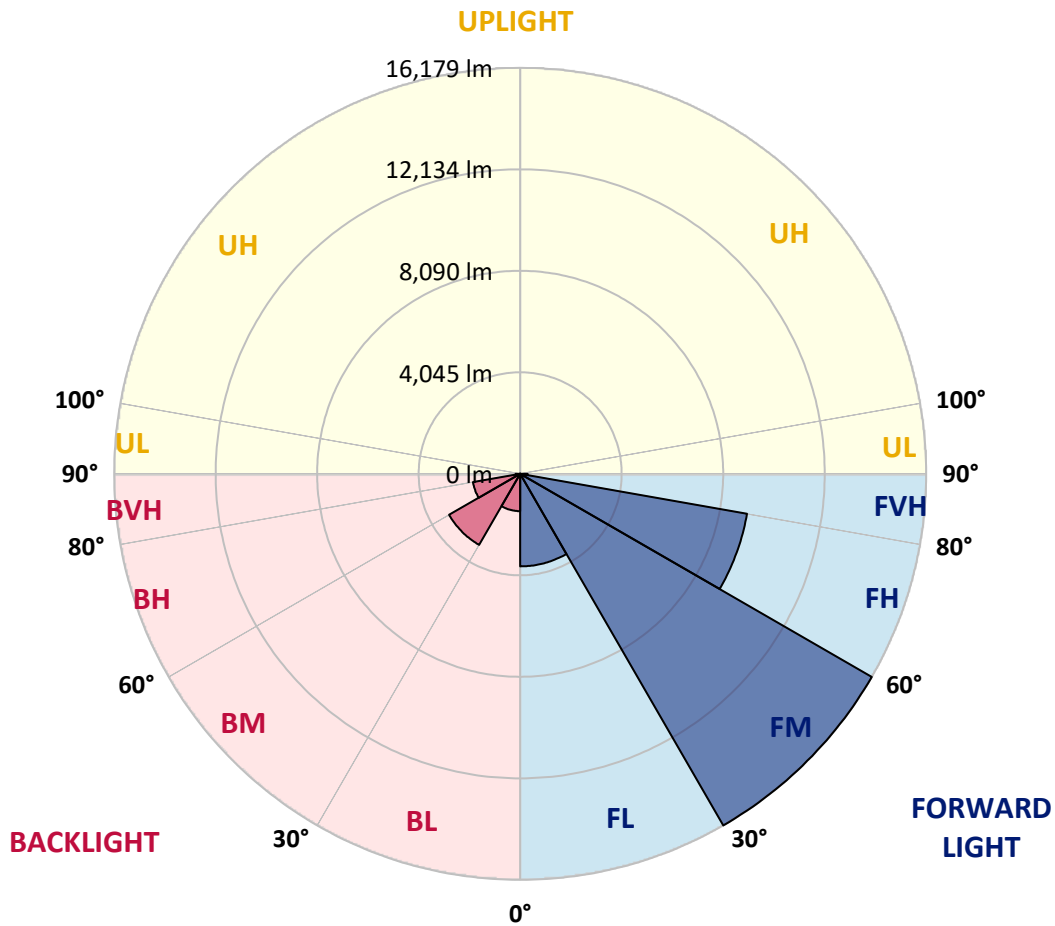
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3688.9	10.2			
FM (30°-60°)	16179.3	44.7			
FH (60°-80°)	9178.3	25.4			G4/12000
FVH (80°-90°)	296.2	0.8			G3/500
BL (0°-30°)	1488.3	4.1	B3/2500		
BM (30°-60°)	3269.8	9.0	B3/5000		
BH (60°-80°)	1909.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	177.4	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°	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0
2.5°	5316.3	5353.7	5307.0	5307.0	5150.1	5067.9	4911.0	4791.4	4576.6	4539.3
5°	6284.0	6330.7	6265.3	6237.3	6052.3	5882.3	5619.0	5359.3	4976.4	4937.1
7.5°	7033.0	7092.8	7034.9	7005.0	6840.6	6650.1	6341.9	5979.5	5439.6	5363.0
10°	7643.9	7653.2	7634.5	7645.7	7516.9	7359.9	7044.2	6622.1	5947.7	5843.1
12.5°	7989.5	8032.4	8069.8	8137.0	8114.6	8017.5	7733.5	7229.2	6485.7	6351.2
15°	8152.0	8226.7	8310.8	8465.8	8591.0	8615.2	8398.6	7881.1	7033.0	6870.5
17.5°	8209.9	8280.9	8413.5	8637.7	8906.7	9087.8	8990.7	8514.4	7574.8	7388.0
20°	8503.2	8523.7	8604.0	8817.0	9108.4	9409.1	9482.0	9123.3	8110.9	7899.8
22.5°	9130.8	9089.7	9112.1	9209.3	9418.5	9709.9	9876.1	9661.3	8661.9	8419.1
25°	10167.6	10048.0	9928.4	9816.4	9922.8	10087.2	10275.9	10199.3	9239.2	8930.9
27.5°	11477.0	11331.3	11067.9	10699.9	10571.0	10629.0	10713.0	10698.1	9773.4	9461.4
30°	12766.0	12596.0	12282.1	11749.8	11409.8	11256.6	11193.1	11150.1	10354.4	10021.8
32.5°	13795.2	13660.7	13352.5	12756.6	12263.5	12001.9	11790.9	11637.7	10961.5	10629.0
35°	14695.6	14570.4	14217.4	13567.3	13031.2	12752.9	12476.4	12149.5	11592.8	11256.6
37.5°	15517.5	15392.4	14908.6	14232.3	13692.5	13500.1	13253.5	12698.7	12226.1	11908.5
40°	16036.8	16008.8	15556.8	14790.9	14230.5	14135.2	14053.0	13335.7	12928.5	12633.3
42.5°	16169.5	16231.1	15872.4	15242.9	14708.7	14632.1	14824.5	14056.7	13716.8	13434.7
45°	15850.0	16027.5	15792.1	15364.3	15048.7	15007.6	15508.2	14845.0	14589.1	14331.3
47.5°	15041.2	15341.9	15244.8	15185.0	15140.2	15317.6	16109.7	15681.9	15577.3	15353.1
50°	13408.5	13978.3	14148.3	14525.6	14959.0	15558.6	16657.0	16595.4	16731.7	16505.7
52.5°	10586.0	11370.5	12356.9	13302.1	14402.3	15478.3	17258.5	17906.7	18482.0	18358.8
55°	8738.5	9091.6	9850.0	11583.5	13322.6	15140.2	17529.4	18965.9	20219.3	20109.1
57.5°	7318.8	7634.5	8101.5	9549.2	11690.0	14372.4	17697.5	19612.2	21409.2	21398.0
60°	5796.4	6130.8	6609.0	7634.5	9782.7	13046.2	17660.1	20348.2	22927.9	23021.3
62.5°	4077.9	4445.9	4976.4	5932.8	7834.4	11327.6	16898.0	20880.6	24715.6	24969.6
65°	2680.6	2923.4	3323.2	4148.8	5837.5	9117.7	15442.8	20949.7	26628.4	27058.1
67.5°	1879.2	1972.6	2208.0	2656.3	3848.1	6991.9	13124.6	20234.2	27904.3	28388.1
70°	1466.4	1513.1	1632.6	1812.0	2417.2	4701.8	10057.3	18373.7	27631.5	28135.9
72.5°	1266.5	1311.3	1356.2	1378.6	1621.4	2902.9	6812.6	15362.5	25063.0	25404.9
75°	1148.8	1160.0	1197.4	1189.9	1236.6	1882.9	3932.2	11193.1	19774.7	19657.0
77.5°	965.8	980.7	1042.3	1033.0	1098.4	1287.1	2041.7	7223.6	12820.1	12020.6
80°	818.2	825.7	892.9	881.7	954.6	932.1	1042.3	3681.8	5437.8	4606.5
82.5°	283.9	351.2	681.8	702.4	728.5	564.1	601.5	1501.9	1660.7	1272.1
85°	138.2	147.6	347.4	493.2	491.3	283.9	293.3	536.1	523.0	411.0
87.5°	22.4	28.0	41.1	192.4	153.2	74.7	100.9	104.6	108.3	93.4
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°
4246.0	0°	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0	4246.0
4397.3	2.5°	4292.7	4199.3	4003.1	3821.9	3680.0	3543.6	3467.0	3401.6	3364.3	3356.8
4602.8	5°	4408.5	4216.1	3859.3	3558.6	3362.4	3216.7	3140.1	3091.5	3067.3	3052.3
4879.2	7.5°	4574.7	4292.7	3784.6	3442.7	3237.3	3132.6	3093.4	3085.9	3084.1	3085.9
5213.6	10°	4804.5	4417.8	3777.1	3414.7	3242.9	3184.9	3183.1	3184.9	3192.4	3194.3
5577.9	12.5°	5053.0	4546.7	3807.0	3439.0	3313.8	3282.1	3276.5	3274.6	3280.2	3284.0
5945.9	15°	5323.8	4716.7	3857.4	3491.3	3392.3	3358.7	3353.1	3341.9	3340.0	3338.1
6332.5	17.5°	5602.1	4884.8	3913.5	3547.3	3442.7	3396.0	3375.5	3349.3	3328.8	3323.2
6732.3	20°	5884.2	5051.1	3952.7	3575.4	3446.5	3381.1	3340.0	3295.2	3259.7	3239.1
7135.8	22.5°	6185.0	5224.8	3977.0	3567.9	3412.8	3323.2	3248.5	3196.2	3142.0	3106.5
7543.0	25°	6478.2	5376.1	3975.1	3528.7	3347.5	3233.5	3138.2	3071.0	2996.3	2958.9
7963.3	27.5°	6760.3	5512.5	3928.4	3459.5	3254.1	3127.0	3013.1	2932.8	2859.9	2824.4
8387.3	30°	7051.7	5626.4	3855.6	3358.7	3143.9	3003.8	2878.6	2809.5	2744.1	2710.5
8835.7	32.5°	7341.3	5731.0	3752.8	3233.5	3016.8	2882.3	2759.0	2695.5	2656.3	2656.3
9317.6	35°	7647.6	5803.9	3616.5	3087.8	2882.3	2753.4	2656.3	2618.9	2615.2	2592.8
9827.6	37.5°	7970.8	5850.6	3450.2	2938.4	2749.7	2628.3	2598.4	2553.6	2516.2	2467.6
10388.0	40°	8310.8	5897.3	3250.3	2783.3	2609.6	2542.4	2529.3	2469.5	2363.0	2243.5
11023.1	42.5°	8723.6	5929.0	3043.0	2628.3	2462.0	2439.6	2458.3	2355.6	2185.6	2095.9
11789.0	45°	9201.8	5981.4	2852.4	2475.1	2310.7	2310.7	2389.2	2254.7	2114.6	2058.5
12663.2	47.5°	9822.0	6102.8	2675.0	2307.0	2170.6	2208.0	2236.0	2133.3	2054.8	1985.7
13728.0	50°	10718.6	6394.2	2491.9	2137.0	2064.1	2138.9	2099.6	2039.9	1948.3	1892.3
15420.4	52.5°	11831.9	6566.0	2329.4	1983.8	1972.6	2047.3	1991.3	1935.3	1866.1	1791.4
16703.7	55°	12590.4	6597.8	2193.0	1871.7	1911.0	1903.5	1882.9	1832.5	1795.2	1696.1
17970.2	57.5°	13438.4	6661.3	2081.0	1804.5	1871.7	1789.5	1782.1	1739.1	1690.5	1623.3
19515.1	60°	14452.8	6760.3	1983.8	1778.3	1838.1	1714.8	1677.5	1660.7	1612.1	1578.5
21373.7	62.5°	15558.6	6850.0	1884.8	1782.1	1798.9	1642.0	1585.9	1580.3	1550.4	1539.2
23118.4	65°	16313.3	6605.3	1761.5	1778.3	1737.2	1567.3	1496.3	1494.4	1470.1	1466.4
23875.0	67.5°	16049.9	5830.0	1595.3	1726.0	1673.7	1492.5	1414.1	1406.6	1374.9	1376.7
23084.8	70°	14731.1	4724.2	1365.5	1597.1	1595.3	1425.3	1328.2	1303.9	1260.9	1268.4
20071.7	72.5°	12257.9	3500.6	1057.3	1382.3	1470.1	1363.6	1229.1	1189.9	1135.7	1143.2
14817.0	75°	8852.5	2379.8	769.6	1051.7	1279.6	1290.8	1132.0	1064.8	999.4	1010.6
8247.2	77.5°	4529.9	1348.7	566.0	724.8	1005.0	1173.1	1044.2	954.6	939.6	1044.2
2378.0	80°	1477.6	676.2	392.3	508.1	659.4	960.2	915.3	812.6	808.8	833.1
498.8	82.5°	440.8	285.8	252.2	334.4	364.3	736.0	790.2	614.6	528.6	556.7
166.3	85°	151.3	138.2	143.8	166.3	173.7	431.5	552.9	407.2	384.8	424.0
37.4	87.5°	35.5	48.6	41.1	37.4	37.4	104.6	214.8	170.0	235.4	156.9
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>
4246.0
3356.8
3050.5
3091.5
3196.2
3285.8
3336.3
3328.8
3246.6
3108.4
2958.9
2822.6
2708.6
2658.2
2587.2
2460.2
2226.7
2097.8
2067.9
1983.8
1886.7
1776.5
1698.0
1600.9
1587.8
1539.2
1464.5
1376.7
1275.8
1141.4
1014.3
1029.3
715.4
575.3
418.4
151.3
0.0

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