

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: P954987

Luminaire Tested: **GALN-SB8A-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954987
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-SB8A-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 32127 lumens
Efficiency: N/A
Efficacy: 141.5 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

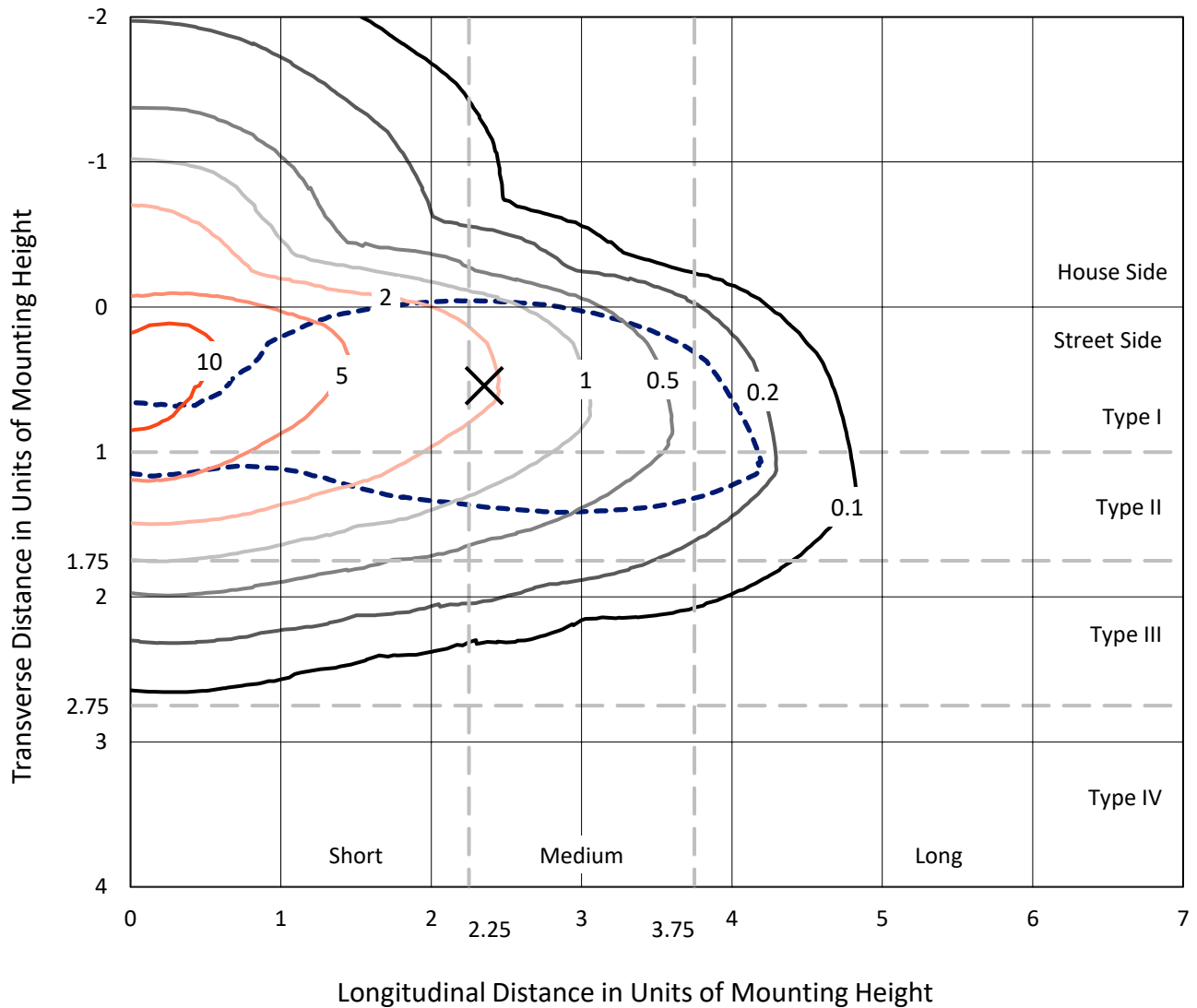
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954987
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Iso-Footcandle Lines of Horizontal Illumination

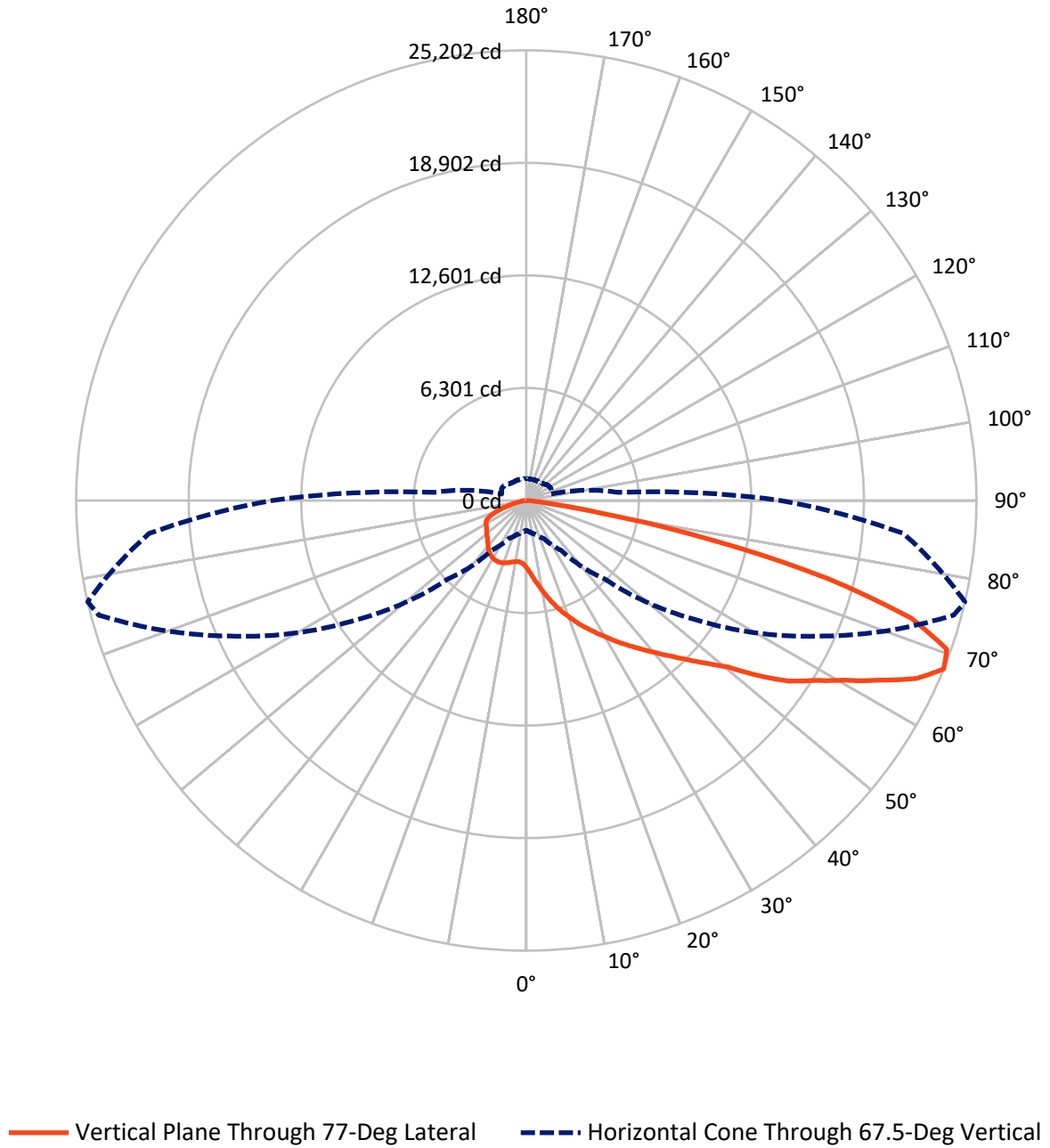
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P954987
CATALOG NUMBER: GALN-SB8A-827-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6077.1	0.0	6077.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	26049.9	0.0	26049.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	32127.0	0.0	32127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.0	1.3
10°-20°	1451.6	4.5
20°-30°	2740.7	8.5
30°-40°	4415.2	13.7
40°-50°	6039.2	18.8
50°-60°	6812.2	21.2
60°-70°	6358.3	19.8
70°-80°	3485.4	10.8
80°-90°	420.4	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°	32127.0	100.0
0°-180°	32127.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954987

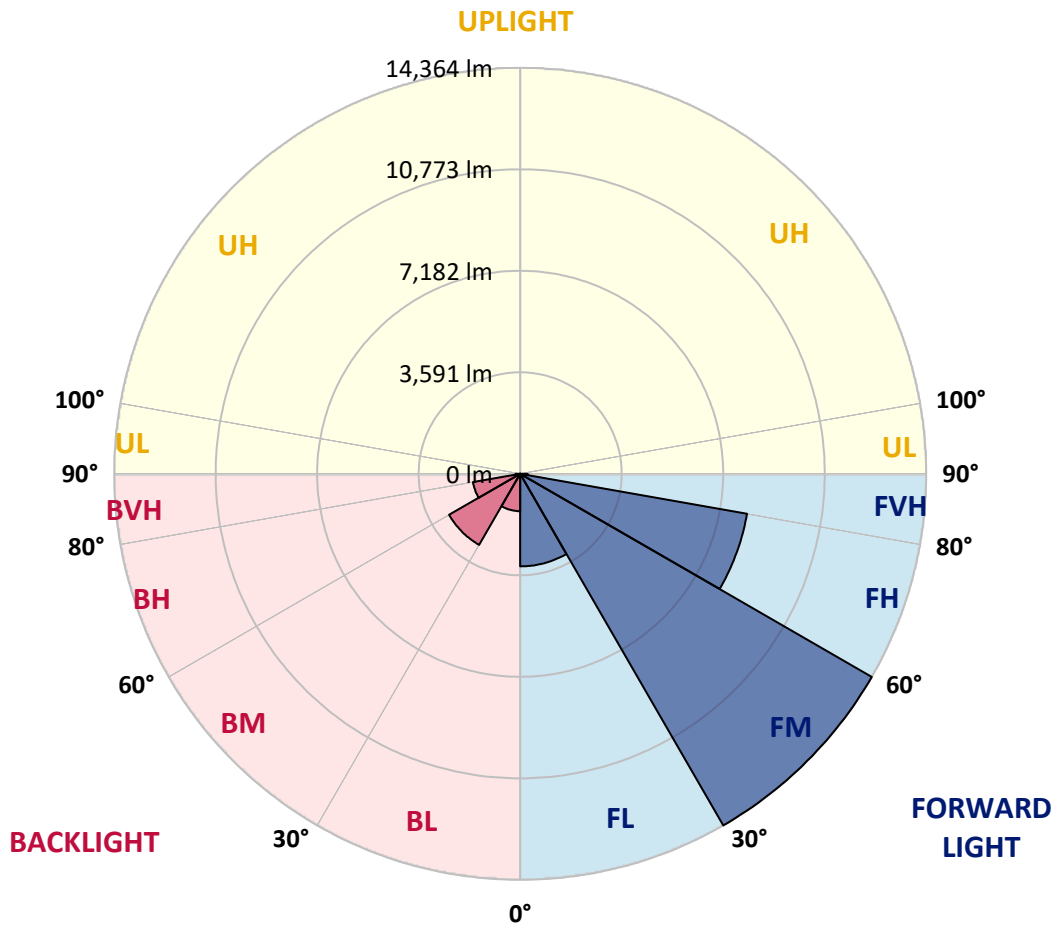
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3274.9	10.2			
FM (30°-60°)	14363.6	44.7			
FH (60°-80°)	8148.4	25.4			G4/12000
FVH (80°-90°)	262.9	0.8			G3/500
BL (0°-30°)	1321.3	4.1	B3/2500		
BM (30°-60°)	2902.9	9.0	B3/5000		
BH (60°-80°)	1695.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	157.5	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



REPORT NUMBER: P954987
 CATALOG NUMBER: GALN-SB8A-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5
2.5°	4719.7	4752.9	4711.5	4711.5	4572.2	4499.2	4359.9	4253.7	4063.0	4029.9
5°	5578.8	5620.2	5562.2	5537.3	5373.1	5222.2	4988.4	4757.9	4417.9	4383.1
7.5°	6243.8	6296.9	6245.5	6218.9	6073.0	5903.8	5630.2	5308.5	4829.2	4761.2
10°	6786.1	6794.4	6777.8	6787.7	6673.3	6534.0	6253.7	5879.0	5280.3	5187.4
12.5°	7092.9	7131.0	7164.2	7223.9	7204.0	7117.8	6865.7	6417.9	5757.9	5638.5
15°	7237.2	7303.5	7378.1	7515.8	7626.9	7648.4	7456.1	6996.7	6243.8	6099.5
17.5°	7288.6	7351.6	7469.3	7668.3	7907.2	8068.0	7981.8	7558.9	6724.7	6558.9
20°	7548.9	7567.2	7638.5	7827.5	8086.3	8353.3	8417.9	8099.5	7200.7	7013.3
22.5°	8106.2	8069.7	8089.6	8175.8	8361.5	8620.3	8767.8	8577.1	7689.9	7474.3
25°	9026.6	8920.4	8814.3	8714.8	8809.3	8955.2	9122.7	9054.7	8202.3	7928.7
27.5°	10189.1	10059.7	9825.9	9499.2	9384.8	9436.2	9510.8	9497.5	8676.6	8399.7
30°	11333.4	11182.4	10903.8	10431.2	10129.4	9993.4	9937.0	9898.9	9192.4	8897.2
32.5°	12247.1	12127.7	11854.1	11325.1	10887.3	10655.1	10467.7	10331.7	9731.4	9436.2
35°	13046.5	12935.4	12621.9	12044.8	11568.9	11321.8	11076.3	10786.1	10291.9	9993.4
37.5°	13776.2	13665.0	13235.5	12635.2	12155.9	11985.1	11766.2	11273.7	10854.1	10572.2
40°	14237.2	14212.3	13811.0	13131.0	12633.5	12549.0	12476.0	11839.2	11477.6	11215.6
42.5°	14354.9	14409.7	14091.2	13532.4	13058.1	12990.1	13160.9	12479.3	12177.5	11927.1
45°	14071.3	14228.9	14019.9	13640.2	13359.9	13323.4	13767.9	13179.1	12951.9	12723.1
47.5°	13353.3	13620.3	13534.0	13481.0	13441.2	13598.7	14301.9	13922.1	13829.2	13630.2
50°	11903.8	12409.6	12560.6	12895.6	13280.3	13812.6	14787.8	14733.0	14854.1	14653.4
52.5°	9398.0	10094.6	10970.2	11809.3	12786.1	13741.3	15321.8	15897.2	16408.0	16298.5
55°	7757.9	8071.3	8744.6	10283.6	11827.6	13441.2	15562.2	16837.5	17950.3	17852.4
57.5°	6497.5	6777.8	7192.4	8477.6	10378.1	12759.6	15711.5	17411.3	19006.7	18996.7
60°	5145.9	5442.8	5867.3	6777.8	8684.9	11582.1	15678.3	18064.7	20354.9	20437.9
62.5°	3620.2	3946.9	4417.9	5267.0	6955.2	10056.4	15001.7	18537.4	21942.0	22167.6
65°	2379.8	2595.4	2950.3	3683.3	5182.4	8094.5	13709.8	18598.7	23640.2	24021.6
67.5°	1668.3	1751.2	1960.2	2358.2	3416.3	6207.3	11651.8	17963.6	24772.9	25202.4
70°	1301.8	1343.3	1449.4	1608.6	2145.9	4174.1	8928.7	16311.8	24530.7	24978.5
72.5°	1124.4	1164.2	1204.0	1223.9	1439.5	2577.1	6048.1	13638.5	22250.5	22554.0
75°	1019.9	1029.9	1063.0	1056.4	1097.8	1671.6	3490.9	9937.0	17555.6	17451.1
77.5°	857.4	870.6	925.4	917.1	975.1	1142.6	1812.6	6413.0	11381.5	10671.7
80°	726.4	733.0	792.7	782.8	847.4	827.5	925.4	3268.7	4827.5	4089.6
82.5°	252.1	311.8	605.3	623.6	646.8	500.8	534.0	1333.3	1474.3	1129.4
85°	122.7	131.0	308.5	437.8	436.2	252.1	260.4	476.0	464.3	364.8
87.5°	19.9	24.9	36.5	170.8	136.0	66.3	89.6	92.9	96.2	82.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954987
 CATALOG NUMBER: GALN-SB8A-827-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3769.5	0°	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5	3769.5
3903.8	2.5°	3811.0	3728.0	3553.9	3393.0	3267.0	3145.9	3078.0	3019.9	2986.7	2980.1
4086.2	5°	3913.8	3743.0	3426.2	3159.2	2985.1	2855.7	2787.7	2744.6	2723.1	2709.8
4331.7	7.5°	4061.4	3811.0	3359.9	3056.4	2874.0	2781.1	2746.3	2739.6	2738.0	2739.6
4628.5	10°	4265.4	3922.1	3353.2	3031.5	2878.9	2827.5	2825.9	2827.5	2834.2	2835.8
4951.9	12.5°	4485.9	4036.5	3379.8	3053.1	2942.0	2913.8	2908.8	2907.1	2912.1	2915.4
5278.6	15°	4726.4	4187.4	3424.6	3099.5	3011.6	2981.8	2976.8	2966.8	2965.2	2963.5
5621.9	17.5°	4973.5	4336.7	3474.3	3149.3	3056.4	3014.9	2996.7	2973.5	2955.2	2950.3
5976.8	20°	5223.9	4484.3	3509.1	3174.1	3059.7	3001.7	2965.2	2925.4	2893.9	2875.6
6335.0	22.5°	5490.9	4638.5	3530.7	3167.5	3029.9	2950.3	2883.9	2837.5	2789.4	2757.9
6696.5	25°	5751.3	4772.8	3529.0	3132.7	2971.8	2870.7	2786.1	2726.4	2660.0	2626.9
7069.7	27.5°	6001.7	4893.9	3487.6	3071.3	2888.9	2776.1	2675.0	2603.7	2539.0	2507.5
7446.1	30°	6260.4	4995.0	3422.9	2981.8	2791.1	2666.7	2555.6	2494.2	2436.2	2406.3
7844.1	32.5°	6517.4	5087.9	3331.7	2870.7	2678.3	2558.9	2449.4	2393.0	2358.2	2358.2
8272.0	35°	6789.4	5152.6	3210.6	2741.3	2558.9	2444.5	2358.2	2325.0	2321.7	2301.8
8724.7	37.5°	7076.3	5194.0	3063.0	2608.6	2441.1	2333.3	2306.8	2267.0	2233.8	2190.7
9222.2	40°	7378.1	5235.5	2885.6	2471.0	2316.8	2257.1	2245.4	2192.4	2097.8	1991.7
9786.1	42.5°	7744.6	5263.7	2701.5	2333.3	2185.7	2165.8	2182.4	2091.2	1940.3	1860.7
10466.0	45°	8169.2	5310.1	2532.3	2197.4	2051.4	2051.4	2121.1	2001.7	1877.3	1827.5
11242.2	47.5°	8719.8	5417.9	2374.8	2048.1	1927.0	1960.2	1985.1	1893.9	1824.2	1762.9
12187.4	50°	9515.8	5676.6	2212.3	1897.2	1832.5	1898.8	1864.0	1810.9	1729.7	1679.9
13689.9	52.5°	10504.2	5829.2	2068.0	1761.2	1751.2	1817.6	1767.8	1718.1	1656.7	1590.4
14829.2	55°	11177.5	5857.4	1946.9	1661.7	1696.5	1689.9	1671.6	1626.9	1593.7	1505.8
15953.6	57.5°	11930.4	5913.8	1847.4	1602.0	1661.7	1588.7	1582.1	1544.0	1500.8	1441.1
17325.1	60°	12830.9	6001.7	1761.2	1578.8	1631.8	1522.4	1489.2	1474.3	1431.2	1401.3
18975.2	62.5°	13812.6	6081.3	1673.3	1582.1	1597.0	1457.7	1408.0	1403.0	1376.5	1366.5
20524.1	65°	14482.6	5864.0	1563.9	1578.8	1542.3	1391.4	1328.4	1326.7	1305.1	1301.8
21195.7	67.5°	14248.8	5175.8	1416.3	1532.3	1485.9	1325.0	1255.4	1248.8	1220.6	1222.2
20494.2	70°	13078.0	4194.0	1212.3	1417.9	1416.3	1265.3	1179.1	1157.5	1119.4	1126.0
17819.3	72.5°	10882.3	3107.8	938.6	1227.2	1305.1	1210.6	1091.2	1056.4	1008.3	1014.9
13154.3	75°	7859.1	2112.8	683.3	933.7	1136.0	1145.9	1005.0	945.3	887.2	897.2
7321.7	77.5°	4021.6	1197.3	502.5	643.5	892.2	1041.5	927.0	847.4	834.2	927.0
2111.1	80°	1311.8	600.3	348.3	451.1	585.4	852.4	812.6	721.4	718.1	739.6
442.8	82.5°	391.4	253.7	223.9	296.8	323.4	653.4	701.5	545.6	469.3	494.2
147.6	85°	134.3	122.7	127.7	147.6	154.2	383.1	490.9	361.5	341.6	376.5
33.2	87.5°	31.5	43.1	36.5	33.2	33.2	92.9	190.7	150.9	209.0	139.3
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>
3769.5
2980.1
2708.1
2744.6
2837.5
2917.1
2961.9
2955.2
2882.3
2759.5
2626.9
2505.8
2404.6
2359.9
2296.9
2184.1
1976.8
1862.4
1835.8
1761.2
1675.0
1577.1
1507.5
1421.2
1409.6
1366.5
1300.2
1222.2
1132.7
1013.3
900.5
913.8
635.2
510.8
371.5
134.3
0.0

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