

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: P953916

Luminaire Tested: **GALN-SB7B-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953916
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-SB7B-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35469 lumens
Efficiency: N/A
Efficacy: 138.2 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

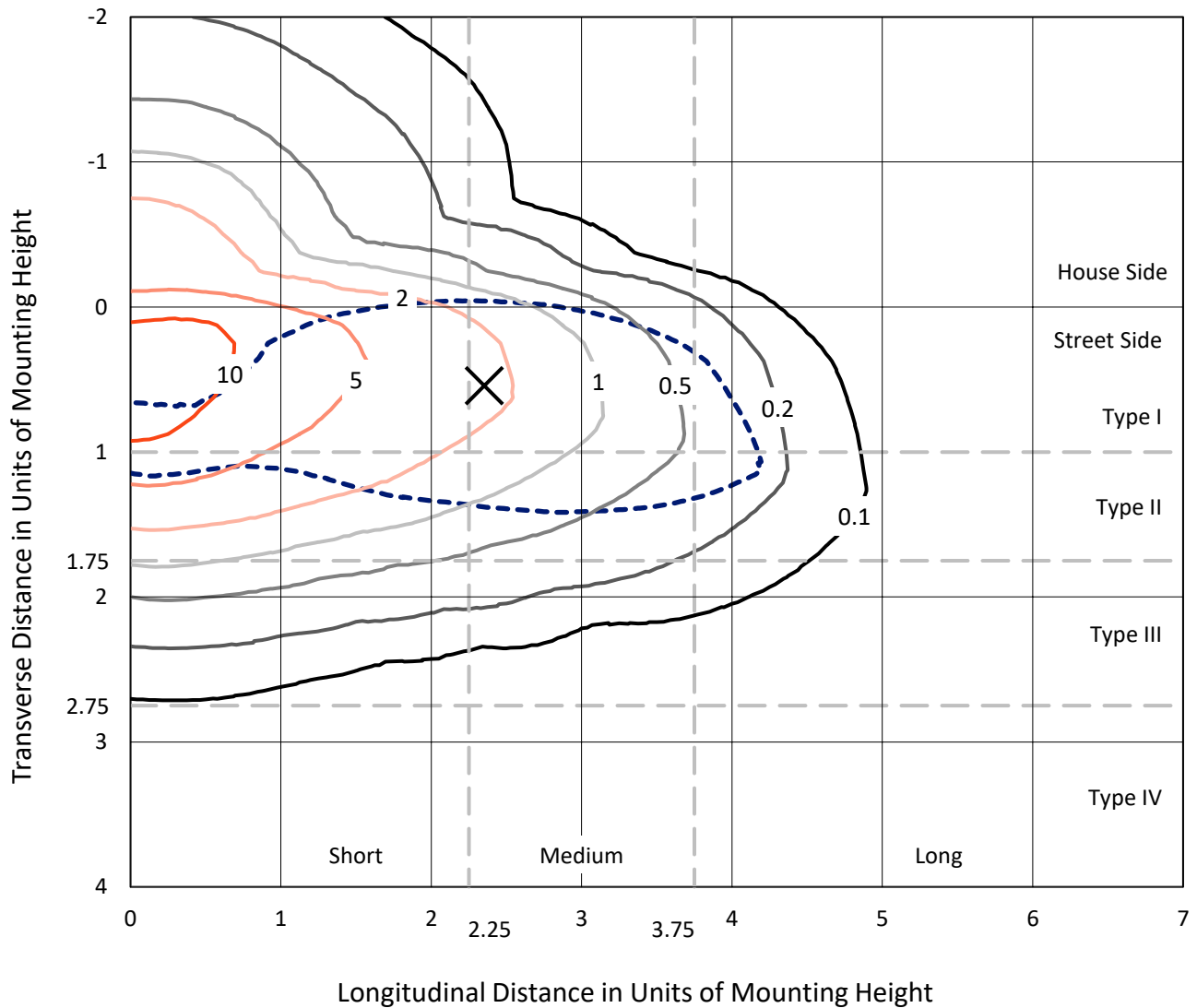
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

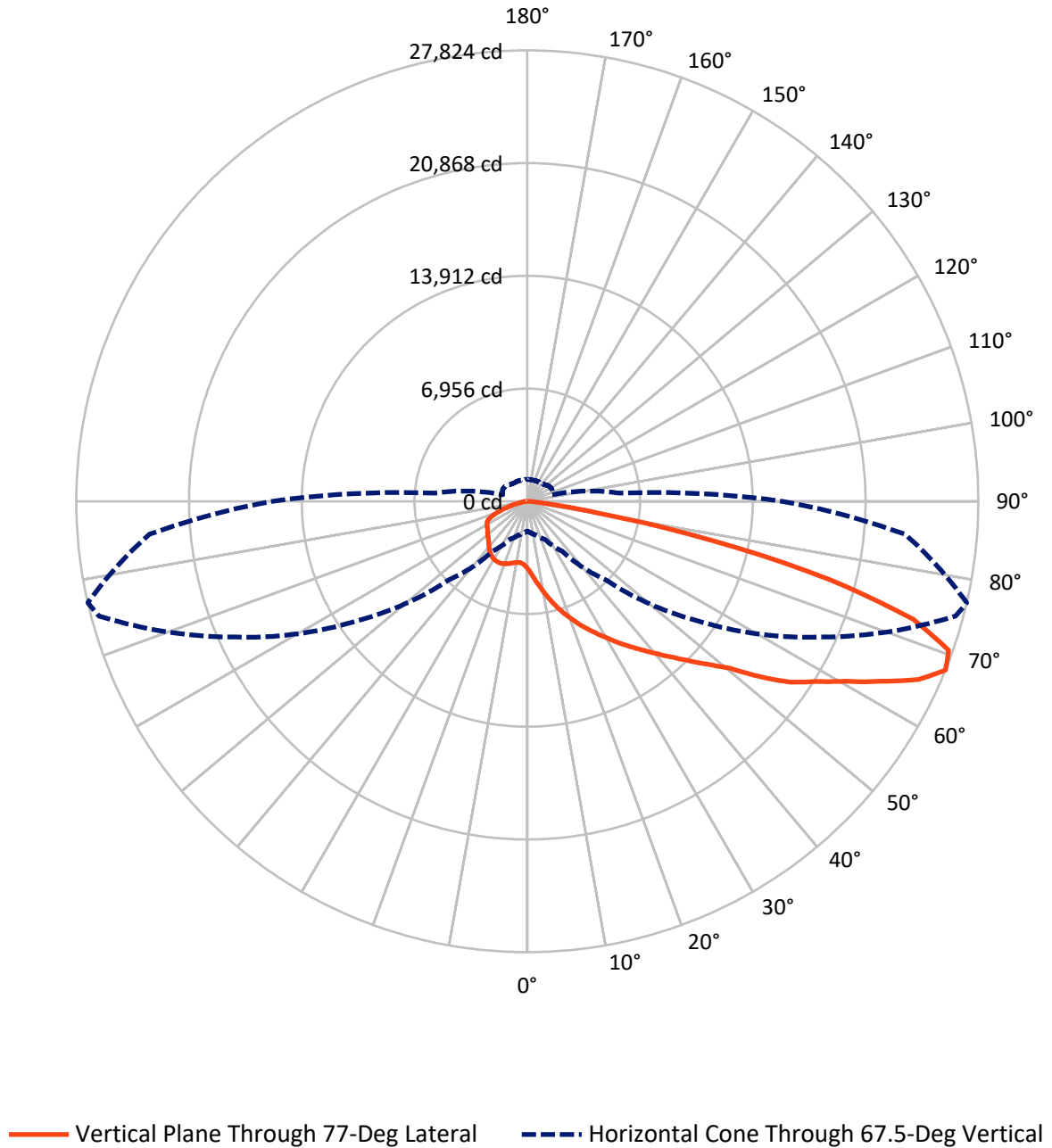
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	6709.3	0.0	6709.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	28759.7	0.0	28759.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	35469.0	0.0	35469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	1.3
10°-20°	1602.5	4.5
20°-30°	3025.8	8.5
30°-40°	4874.5	13.7
40°-50°	6667.4	18.8
50°-60°	7520.8	21.2
60°-70°	7019.8	19.8
70°-80°	3848.0	10.8
80°-90°	464.2	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°	35469.0	100.0
0°-180°	35469.0	100.0

Coefficient of Utilization



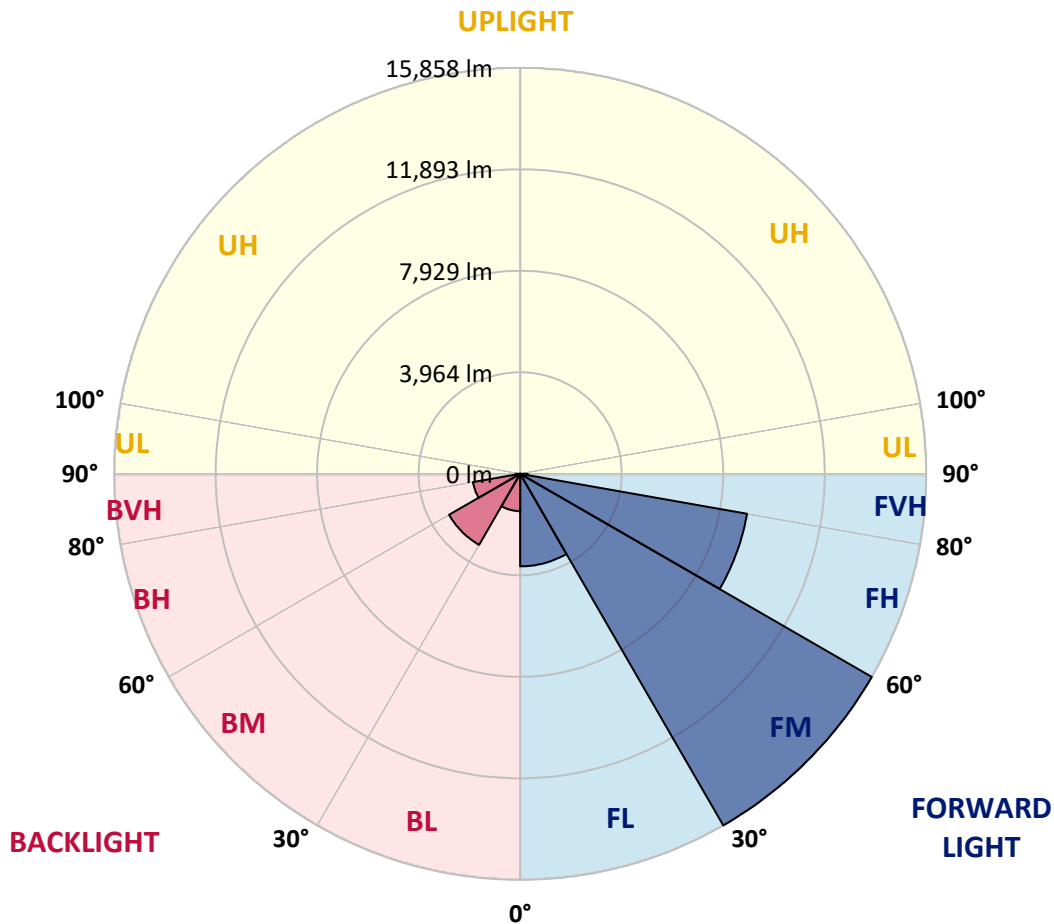
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3615.6	10.2			
FM (30°-60°)	15857.8	44.7			
FH (60°-80°)	8996.0	25.4			G4/12000
FVH (80°-90°)	290.3	0.8			G3/500
BL (0°-30°)	1458.8	4.1	B3/2500		
BM (30°-60°)	3204.9	9.0	B3/5000		
BH (60°-80°)	1871.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	173.9	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°	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6
2.5°	5210.7	5247.3	5201.6	5201.6	5047.8	4967.2	4813.4	4696.2	4485.7	4449.1
5°	6159.1	6204.9	6140.8	6113.3	5932.1	5765.5	5507.3	5252.8	4877.5	4839.0
7.5°	6893.3	6951.9	6895.1	6865.8	6704.7	6518.0	6215.9	5860.7	5331.6	5256.5
10°	7492.0	7501.2	7482.9	7493.8	7367.5	7213.7	6904.3	6490.5	5829.6	5727.0
12.5°	7830.7	7872.8	7909.4	7975.4	7953.4	7858.2	7579.9	7085.5	6356.9	6225.0
15°	7990.0	8063.2	8145.6	8297.6	8420.3	8444.1	8231.7	7724.5	6893.3	6734.0
17.5°	8046.8	8116.3	8246.3	8466.0	8729.7	8907.3	8812.1	8345.2	7424.3	7241.2
20°	8334.2	8354.4	8433.1	8641.8	8927.4	9222.2	9293.6	8942.1	7949.7	7742.8
22.5°	8949.4	8909.1	8931.1	9026.3	9231.4	9517.0	9679.9	9469.4	8489.8	8251.8
25°	9965.5	9848.4	9731.2	9621.3	9725.7	9886.8	10071.7	9996.7	9055.6	8753.5
27.5°	11249.0	11106.2	10848.0	10487.3	10361.0	10417.8	10500.2	10485.5	9579.2	9273.5
30°	12512.3	12345.7	12038.1	11516.3	11183.1	11033.0	10970.7	10928.6	10148.6	9822.7
32.5°	13521.1	13389.3	13087.2	12503.2	12019.8	11763.5	11556.6	11406.5	10743.7	10417.8
35°	14403.6	14281.0	13934.9	13297.8	12772.3	12499.5	12228.5	11908.1	11362.5	11033.0
37.5°	15209.2	15086.5	14612.3	13949.6	13420.4	13231.9	12990.2	12446.4	11983.2	11671.9
40°	15718.2	15690.7	15247.7	14497.0	13947.7	13854.4	13773.8	13070.7	12671.6	12382.3
42.5°	15848.2	15908.6	15557.1	14940.1	14416.4	14341.4	14530.0	13777.5	13444.2	13167.8
45°	15535.1	15709.0	15478.4	15059.1	14749.7	14709.4	15200.1	14550.1	14299.3	14046.6
47.5°	14742.3	15037.1	14941.9	14883.3	14839.4	15013.3	15789.6	15370.3	15267.8	15048.1
50°	13142.1	13700.6	13867.2	14237.0	14661.8	15249.5	16326.1	16265.6	16399.3	16177.8
52.5°	10375.7	11144.6	12111.3	13037.8	14116.2	15170.8	16915.6	17550.9	18114.8	17994.0
55°	8564.9	8910.9	9654.3	11353.4	13057.9	14839.4	17181.1	18589.0	19817.6	19709.5
57.5°	7173.4	7482.9	7940.6	9359.5	11457.7	14086.9	17345.9	19222.5	20983.8	20972.9
60°	5681.3	6009.0	6477.7	7482.9	9588.4	12786.9	17309.2	19943.9	22472.4	22563.9
62.5°	3996.8	4357.5	4877.5	5814.9	7678.8	11102.5	16562.2	20465.7	24224.5	24473.5
65°	2627.3	2865.3	3257.2	4066.4	5721.5	8936.6	15136.0	20533.4	26099.4	26520.5
67.5°	1841.9	1933.4	2164.1	2603.5	3771.6	6853.0	12863.8	19832.2	27349.9	27824.1
70°	1437.2	1483.0	1600.2	1776.0	2369.2	4608.4	9857.5	18008.6	27082.5	27576.9
72.5°	1241.3	1285.3	1329.2	1351.2	1589.2	2845.2	6677.3	15057.2	24565.1	24900.1
75°	1126.0	1137.0	1173.6	1166.3	1212.0	1845.5	3854.0	10970.7	19381.8	19266.5
77.5°	946.6	961.2	1021.6	1012.5	1076.6	1261.5	2001.2	7080.1	12565.4	11781.8
80°	801.9	809.3	875.2	864.2	935.6	913.6	1021.6	3608.7	5329.7	4515.0
82.5°	278.3	344.2	668.3	688.4	714.0	552.9	589.5	1472.0	1627.7	1246.8
85°	135.5	144.6	340.5	483.4	481.5	278.3	287.4	525.5	512.6	402.8
87.5°	22.0	27.5	40.3	188.6	150.1	73.2	98.9	102.5	106.2	91.5
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°
4161.6	0°	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6	4161.6
4309.9	2.5°	4207.4	4115.8	3923.6	3746.0	3606.9	3473.2	3398.1	3334.1	3297.4	3290.1
4511.3	5°	4320.9	4132.3	3782.6	3487.8	3295.6	3152.8	3077.7	3030.1	3006.3	2991.7
4782.3	7.5°	4483.9	4207.4	3709.4	3374.3	3172.9	3070.4	3032.0	3024.6	3022.8	3024.6
5110.0	10°	4709.1	4330.1	3702.1	3346.9	3178.4	3121.7	3119.8	3121.7	3129.0	3130.8
5467.0	12.5°	4952.6	4456.4	3731.4	3370.7	3248.0	3216.9	3211.4	3209.6	3215.0	3218.7
5827.7	15°	5218.0	4623.0	3780.8	3421.9	3324.9	3291.9	3286.4	3275.5	3273.6	3271.8
6206.7	17.5°	5490.8	4787.8	3835.7	3476.9	3374.3	3328.6	3308.4	3282.8	3262.6	3257.2
6598.5	20°	5767.3	4950.7	3874.2	3504.3	3378.0	3313.9	3273.6	3229.7	3194.9	3174.8
6994.0	22.5°	6062.1	5121.0	3898.0	3497.0	3345.0	3257.2	3183.9	3132.7	3079.6	3044.8
7393.1	25°	6349.5	5269.3	3896.1	3458.6	3281.0	3169.3	3075.9	3010.0	2936.7	2900.1
7805.1	27.5°	6626.0	5403.0	3850.4	3390.8	3189.4	3064.9	2953.2	2874.5	2803.1	2768.3
8220.7	30°	6911.6	5514.6	3779.0	3291.9	3081.4	2944.1	2821.4	2753.7	2689.6	2656.6
8660.1	32.5°	7195.4	5617.2	3678.3	3169.3	2956.9	2825.1	2704.2	2642.0	2603.5	2603.5
9132.5	35°	7495.7	5688.6	3544.6	3026.5	2825.1	2698.7	2603.5	2566.9	2563.2	2541.3
9632.3	37.5°	7812.4	5734.4	3381.7	2880.0	2695.1	2576.1	2546.8	2502.8	2466.2	2418.6
10181.6	40°	8145.6	5780.1	3185.8	2728.0	2557.8	2491.8	2479.0	2420.4	2316.1	2198.9
10804.1	42.5°	8550.3	5811.2	2982.5	2576.1	2413.1	2391.1	2409.5	2308.8	2142.1	2054.3
11554.8	45°	9019.0	5862.5	2795.8	2425.9	2264.8	2264.8	2341.7	2209.9	2072.6	2017.6
12411.6	47.5°	9626.8	5981.5	2621.8	2261.2	2127.5	2164.1	2191.6	2090.9	2014.0	1946.2
13455.2	50°	10505.7	6267.1	2442.4	2094.5	2023.1	2096.4	2057.9	1999.3	1909.6	1854.7
15114.0	52.5°	11596.9	6435.6	2283.1	1944.4	1933.4	2006.7	1951.7	1896.8	1829.1	1755.8
16371.8	55°	12340.2	6466.7	2149.5	1834.6	1873.0	1865.7	1845.5	1796.1	1759.5	1662.4
17613.2	57.5°	13171.4	6529.0	2039.6	1768.6	1834.6	1754.0	1746.7	1704.6	1657.0	1591.0
19127.3	60°	14165.6	6626.0	1944.4	1743.0	1801.6	1680.8	1644.1	1627.7	1580.1	1547.1
20949.1	62.5°	15249.5	6713.9	1847.4	1746.7	1763.1	1609.4	1554.4	1548.9	1519.6	1508.7
22659.1	65°	15989.2	6474.0	1726.5	1743.0	1702.7	1536.1	1466.5	1464.7	1440.9	1437.2
23400.6	67.5°	15731.0	5714.2	1563.6	1691.7	1640.5	1462.9	1386.0	1378.7	1347.5	1349.4
22626.2	70°	14438.4	4630.3	1338.4	1565.4	1563.6	1397.0	1301.8	1278.0	1235.9	1243.2
19672.9	72.5°	12014.3	3431.1	1036.3	1354.9	1440.9	1336.6	1204.7	1166.3	1113.2	1120.5
14522.6	75°	8676.6	2332.6	754.3	1030.8	1254.2	1265.1	1109.5	1043.6	979.5	990.5
8083.4	77.5°	4439.9	1321.9	554.8	710.4	985.0	1149.8	1023.5	935.6	920.9	1023.5
2330.7	80°	1448.2	662.8	384.5	498.0	646.3	941.1	897.1	796.4	792.8	816.6
488.8	82.5°	432.1	280.1	247.2	327.7	357.0	721.4	774.5	602.4	518.1	545.6
162.9	85°	148.3	135.5	141.0	162.9	170.3	422.9	541.9	399.1	377.2	415.6
36.6	87.5°	34.8	47.6	40.3	36.6	36.6	102.5	210.6	166.6	230.7	153.8
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>
4161.6
3290.1
2989.8
3030.1
3132.7
3220.5
3270.0
3262.6
3182.1
3046.6
2900.1
2766.5
2654.8
2605.4
2535.8
2411.3
2182.4
2056.1
2026.8
1944.4
1849.2
1741.2
1664.3
1569.1
1556.3
1508.7
1435.4
1349.4
1250.5
1118.7
994.2
1008.8
701.2
563.9
410.1
148.3
0.0

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