

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: P939975

Luminaire Tested: **GALN-SB2D-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2D-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17534 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

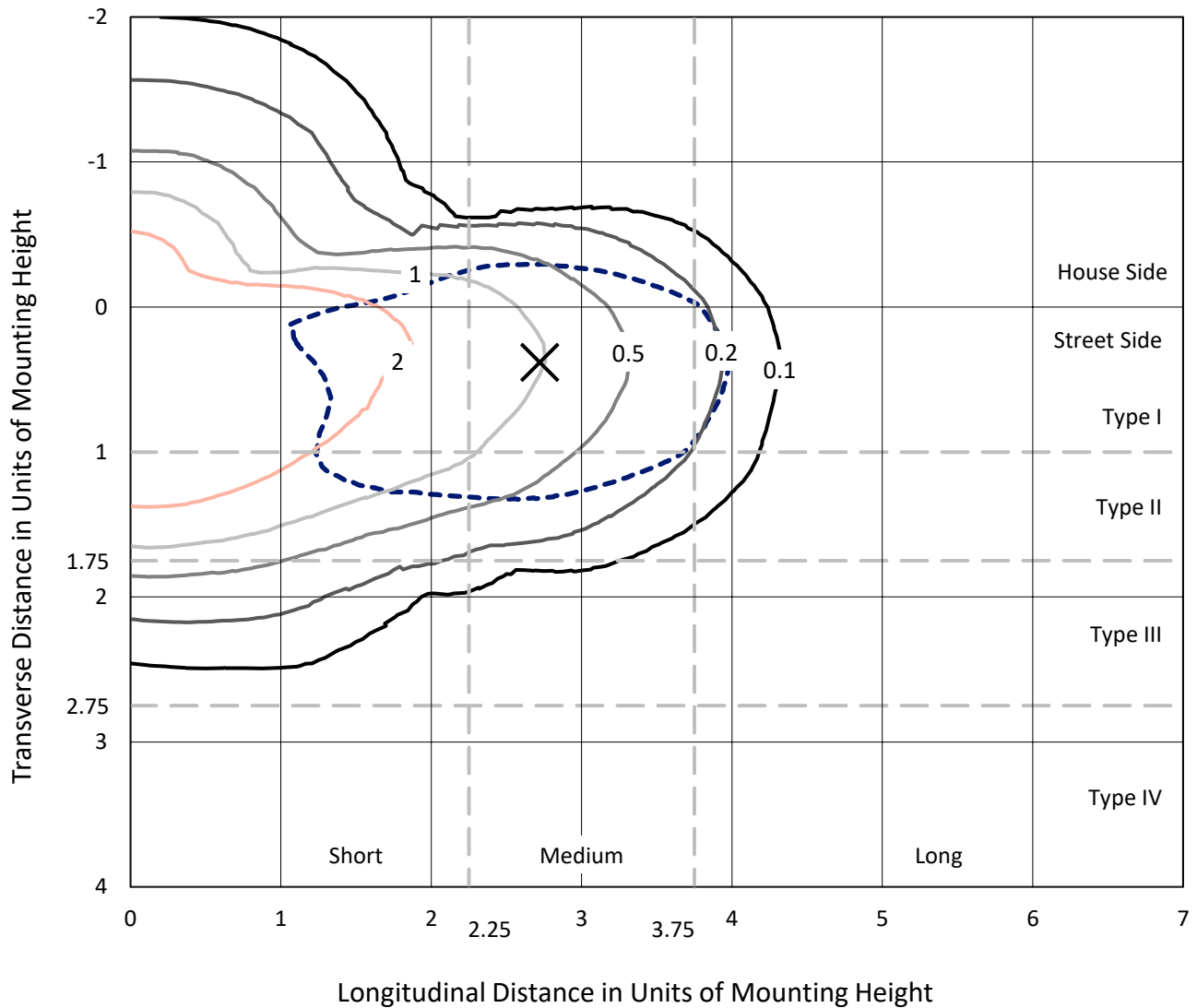
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

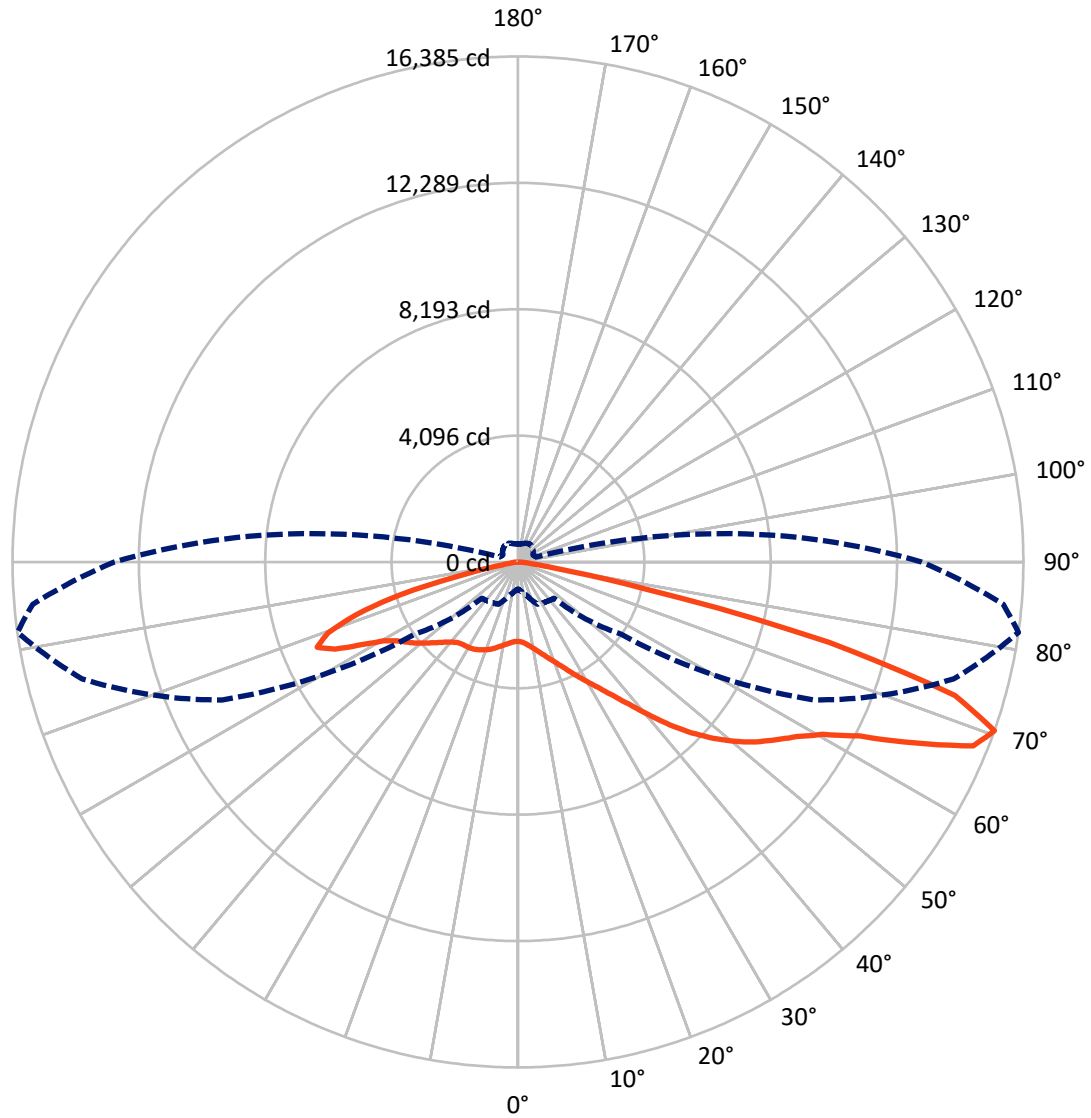
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4322.6	0.0	4322.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	13211.4	0.0	13211.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	17534.0	0.0	17534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.4
10°-20°	697.3	4.0
20°-30°	1166.6	6.7
30°-40°	1822.5	10.4
40°-50°	2902.6	16.6
50°-60°	4039.3	23.0
60°-70°	4225.3	24.1
70°-80°	2208.4	12.6
80°-90°	229.3	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°	17534.0	100.0
0°-180°	17534.0	100.0

Coefficient of Utilization



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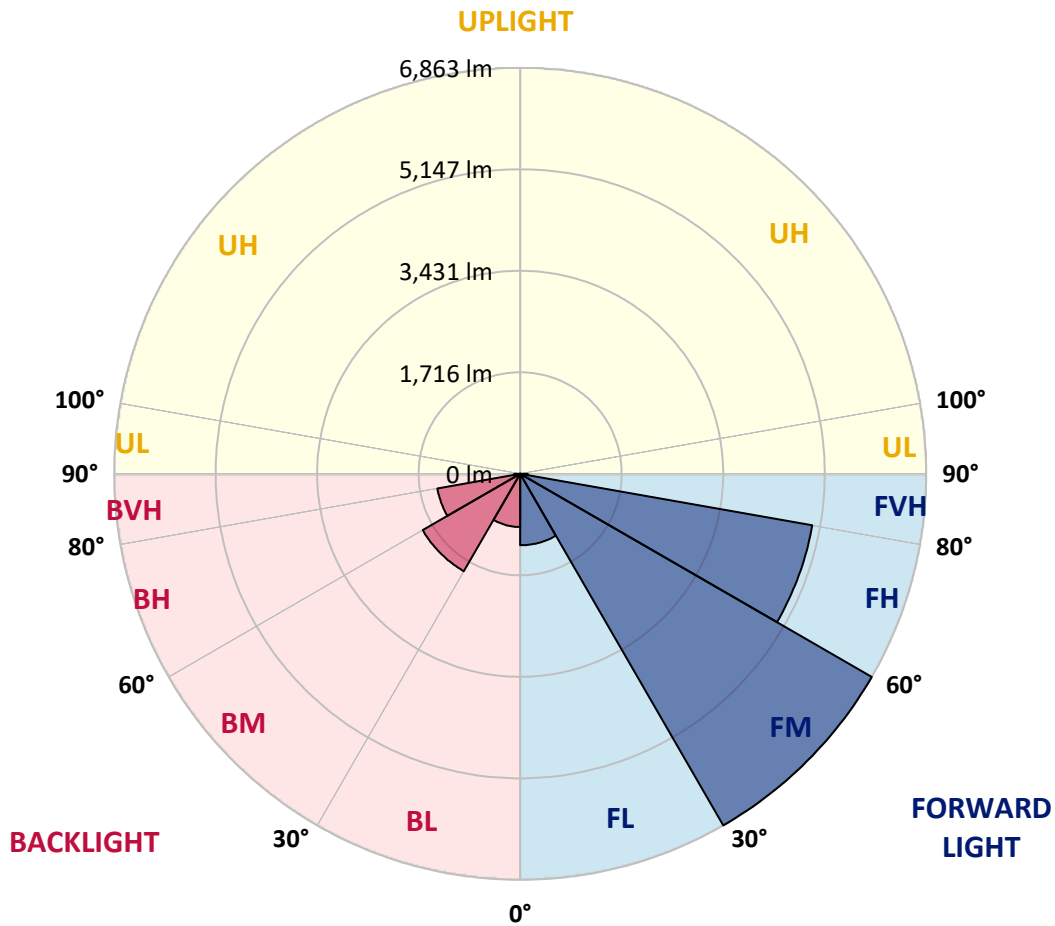
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.4	6.9			
FM (30°-60°)	6862.6	39.1			
FH (60°-80°)	5013.0	28.6			G3/7500
FVH (80°-90°)	128.4	0.7			G2/225
BL (0°-30°)	899.2	5.1	B2/1000		
BM (30°-60°)	1901.7	10.8	B2/2500		
BH (60°-80°)	1420.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	100.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7
2.5°	2632.1	2647.0	2642.3	2637.7	2637.7	2631.2	2630.2	2620.9	2613.5	2601.4
5°	2665.6	2681.4	2679.6	2683.3	2695.4	2698.2	2701.0	2695.4	2680.5	2665.6
7.5°	2635.8	2653.5	2659.1	2681.4	2718.6	2752.1	2777.3	2787.5	2773.5	2752.1
10°	2535.3	2554.9	2574.4	2627.5	2693.5	2772.6	2839.6	2879.6	2876.8	2856.3
12.5°	2331.6	2352.1	2393.9	2497.2	2618.2	2757.7	2882.4	2966.1	2995.0	2980.1
15°	2168.8	2186.4	2218.1	2324.1	2481.4	2693.5	2898.2	3061.0	3134.5	3126.2
17.5°	2164.1	2171.6	2191.1	2241.3	2362.3	2593.0	2881.5	3154.1	3294.6	3293.6
20°	2246.0	2248.8	2259.9	2270.2	2339.0	2516.7	2838.7	3231.3	3474.1	3474.1
22.5°	2359.5	2357.6	2368.8	2359.5	2393.0	2510.2	2811.7	3299.2	3674.2	3689.0
25°	2529.8	2520.5	2517.7	2496.3	2502.8	2570.7	2841.5	3376.4	3911.4	3942.1
27.5°	2756.8	2741.9	2731.7	2682.4	2665.6	2695.4	2932.6	3469.5	4175.6	4228.7
30°	3052.7	3025.7	3010.8	2925.2	2864.7	2869.4	3070.3	3593.2	4452.0	4537.6
32.5°	3456.4	3414.6	3374.6	3234.1	3123.4	3087.1	3248.0	3764.4	4751.6	4888.3
35°	3908.6	3875.1	3832.3	3615.5	3445.3	3361.5	3488.1	4003.5	5102.3	5319.1
37.5°	4344.1	4315.2	4335.7	4043.5	3824.0	3702.1	3802.6	4324.5	5535.0	5855.0
40°	4794.4	4772.0	4774.8	4495.7	4239.8	4103.1	4184.0	4727.4	6030.9	6492.4
42.5°	5283.8	5267.0	5211.2	4963.7	4676.2	4548.7	4623.2	5192.6	6563.1	7218.1
45°	5831.8	5821.5	5769.4	5485.7	5156.3	5013.0	5113.5	5706.2	7098.0	7901.0
47.5°	6305.3	6313.7	6307.2	6068.1	5726.6	5516.4	5636.4	6242.1	7595.8	8543.0
50°	6533.3	6577.0	6641.2	6566.8	6354.7	6140.7	6163.9	6759.4	8070.3	9144.9
52.5°	6414.2	6497.0	6671.9	6791.0	6872.9	6828.2	6765.9	7273.0	8516.9	9688.3
55°	5970.4	6086.7	6377.0	6664.5	7082.2	7406.9	7488.8	7842.4	8952.3	10166.5
57.5°	5161.9	5350.7	5611.3	6192.8	6896.1	7687.0	8331.8	8632.3	9413.8	10677.3
60°	3775.6	4028.6	4352.4	5217.7	6244.9	7537.2	9049.1	9845.5	10069.8	11338.8
62.5°	2416.3	2572.6	2870.3	3685.3	4866.0	6769.6	9268.7	11362.1	11181.6	12423.7
65°	1654.3	1754.7	2027.3	2485.1	3145.7	5039.1	8680.7	12499.0	12947.5	14143.1
67.5°	1202.1	1278.4	1511.0	1912.0	2049.7	2981.9	6736.1	12446.9	14664.1	15914.5
70°	876.4	930.4	1125.8	1511.0	1577.0	1658.9	4080.7	10580.5	14626.9	16385.3
72.5°	649.4	686.6	817.8	1172.3	1276.5	1120.2	2019.9	7689.8	12568.8	14820.4
75°	469.9	497.8	594.5	896.9	1021.6	853.2	1007.6	4493.8	8767.2	10425.2
77.5°	359.1	380.5	443.8	656.9	817.8	640.1	625.2	2067.4	4157.0	4177.5
80°	288.4	302.4	336.8	462.4	627.1	479.2	407.5	834.6	1313.7	1111.8
82.5°	212.1	235.4	284.7	324.7	448.5	330.3	248.4	421.5	499.6	429.8
85°	121.0	136.8	172.1	232.6	286.6	201.9	142.4	187.0	232.6	190.7
87.5°	42.8	55.8	60.5	91.2	124.7	83.7	54.9	54.0	76.3	56.8
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°
2570.7	0°	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7
2598.6	2.5°	2589.3	2584.7	2566.1	2540.9	2514.9	2489.8	2481.4	2463.7	2451.6	2445.1
2659.1	5°	2641.4	2626.5	2582.8	2527.0	2468.4	2405.1	2360.4	2319.5	2289.7	2261.8
2741.9	7.5°	2715.8	2689.8	2614.4	2516.7	2412.5	2307.4	2229.2	2169.7	2129.7	2103.6
2838.7	10°	2802.4	2762.4	2647.0	2500.9	2340.0	2189.2	2097.1	2046.0	2020.8	2006.9
2949.4	12.5°	2901.9	2845.2	2680.5	2464.6	2229.2	2057.1	1993.9	1979.0	1979.9	1980.8
3088.9	15°	3024.7	2945.7	2707.5	2385.6	2085.0	1955.7	1944.5	1968.7	1993.9	2005.9
3247.1	17.5°	3163.4	3051.7	2712.1	2255.3	1943.6	1890.6	1925.9	1978.0	2016.2	2032.9
3423.9	20°	3312.2	3159.6	2678.6	2071.1	1827.3	1837.5	1900.8	1967.8	2009.7	2031.1
3625.8	22.5°	3482.5	3275.0	2598.6	1877.6	1732.4	1779.9	1854.3	1919.4	1963.2	1984.5
3863.0	25°	3677.0	3404.3	2473.0	1714.7	1650.5	1714.7	1789.2	1843.1	1878.5	1898.0
4128.2	27.5°	3892.8	3539.3	2305.5	1585.4	1578.9	1647.7	1709.2	1751.0	1769.6	1784.5
4410.1	30°	4109.6	3662.1	2102.7	1487.7	1516.6	1581.7	1625.4	1644.0	1649.6	1652.4
4724.6	32.5°	4344.1	3768.1	1889.6	1406.8	1457.0	1517.5	1543.5	1551.9	1525.9	1508.2
5106.1	35°	4627.8	3881.6	1681.2	1342.6	1398.4	1450.5	1458.9	1451.4	1420.7	1384.4
5584.3	37.5°	4978.6	4023.1	1514.7	1297.0	1343.5	1377.9	1367.7	1365.8	1368.6	1325.8
6159.3	40°	5408.4	4207.3	1392.8	1261.6	1298.8	1306.3	1277.4	1293.3	1307.2	1242.1
6790.1	42.5°	5885.7	4429.6	1315.6	1237.4	1261.6	1243.9	1199.3	1217.0	1215.1	1129.5
7423.7	45°	6372.3	4671.6	1288.6	1219.8	1227.2	1191.8	1142.5	1147.2	1108.1	1030.9
8031.2	47.5°	6856.1	4931.1	1305.4	1204.9	1184.4	1144.4	1106.2	1085.8	1028.1	970.4
8613.7	50°	7330.6	5203.7	1366.8	1175.1	1125.8	1102.5	1074.6	1038.3	976.9	927.6
9164.5	52.5°	7770.7	5478.2	1435.6	1125.8	1052.3	1066.2	1048.6	1006.7	946.2	896.0
9685.5	55°	8187.5	5752.7	1462.6	1057.9	983.4	1034.6	1024.4	947.2	874.6	833.6
10230.7	57.5°	8641.6	6083.0	1432.8	971.3	927.6	998.3	959.2	873.6	831.8	801.1
10940.6	60°	9270.5	6601.2	1368.6	864.3	874.6	944.4	877.4	842.0	796.4	762.0
12005.0	62.5°	10315.4	7567.9	1265.3	758.3	812.2	864.3	838.3	802.9	756.4	722.9
13824.9	65°	11859.8	8911.4	1070.9	675.5	742.5	786.2	796.4	761.1	712.7	677.3
15419.6	67.5°	13162.4	9754.3	810.4	606.6	670.8	722.9	751.8	717.3	666.2	631.7
15792.7	70°	13090.8	9142.1	618.7	538.7	607.6	660.6	697.8	670.8	615.9	583.4
14345.0	72.5°	11627.2	7647.9	500.6	469.9	543.4	595.5	640.1	619.6	563.8	532.2
10508.9	75°	8542.0	5428.9	400.1	400.1	463.3	527.5	576.8	563.8	512.7	490.3
4412.0	77.5°	3600.7	2277.6	313.5	332.2	385.2	453.1	514.5	519.2	474.5	502.4
1166.7	80°	957.4	628.0	239.1	261.4	302.4	374.0	447.5	445.7	397.3	371.2
433.6	82.5°	364.7	247.5	170.3	184.2	218.6	286.6	354.5	365.6	317.3	274.5
170.3	85°	140.5	106.1	105.1	110.7	127.5	189.8	268.0	277.3	239.1	202.8
47.5	87.5°	36.3	31.6	39.1	37.2	58.6	101.4	153.5	159.1	146.1	84.7
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>
2570.7
2452.5
2273.0
2109.2
2010.6
1982.7
2005.0
2036.7
2036.7
1990.1
1903.6
1790.1
1658.9
1513.8
1386.3
1328.6
1243.9
1128.6
1033.7
970.4
923.9
896.9
829.9
798.3
760.1
722.9
679.2
632.7
586.2
532.2
483.8
455.9
345.2
274.5
209.3
121.0
0.0

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