

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: P951766

Luminaire Tested: **GALN-SB5D-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44428 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

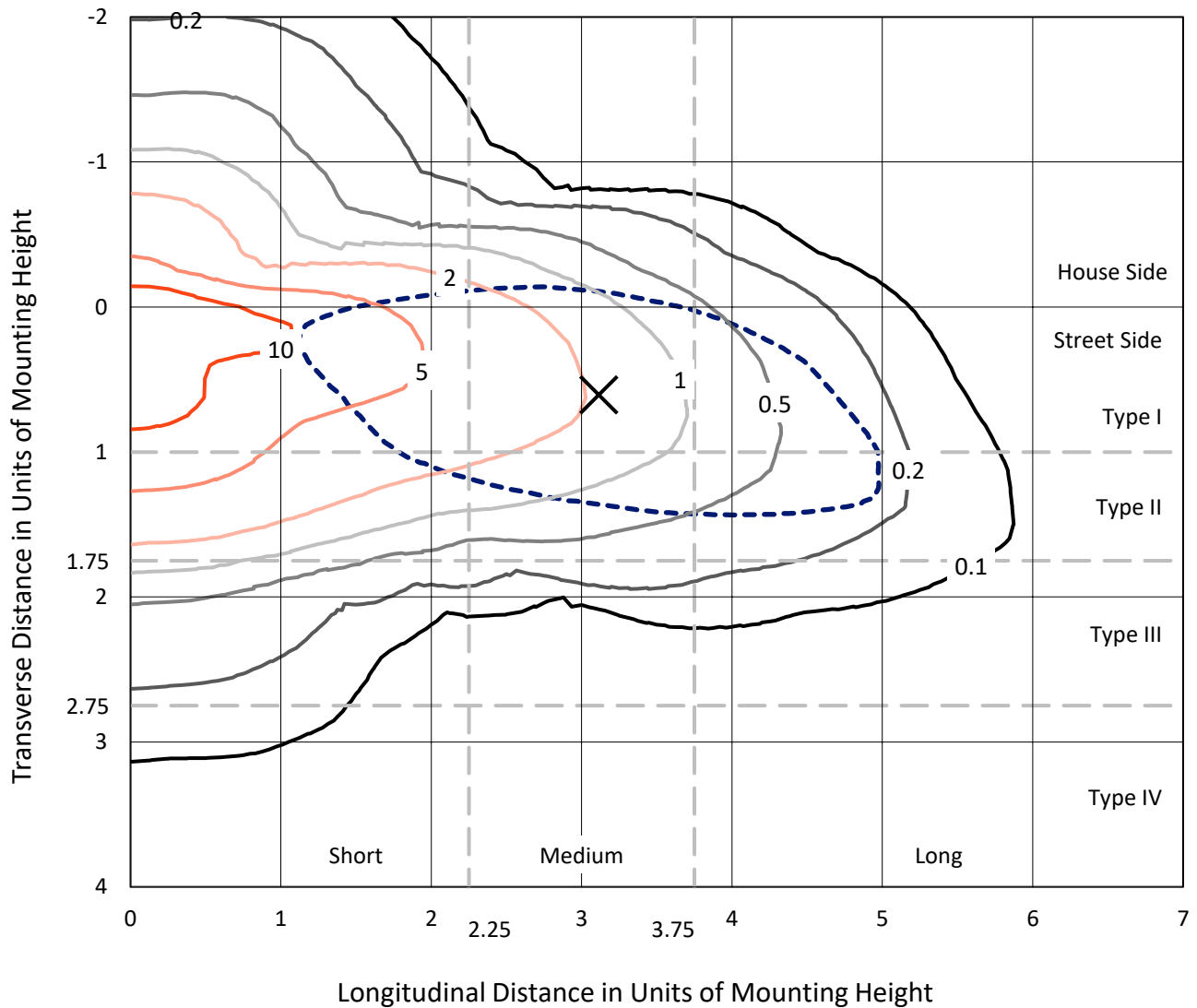
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

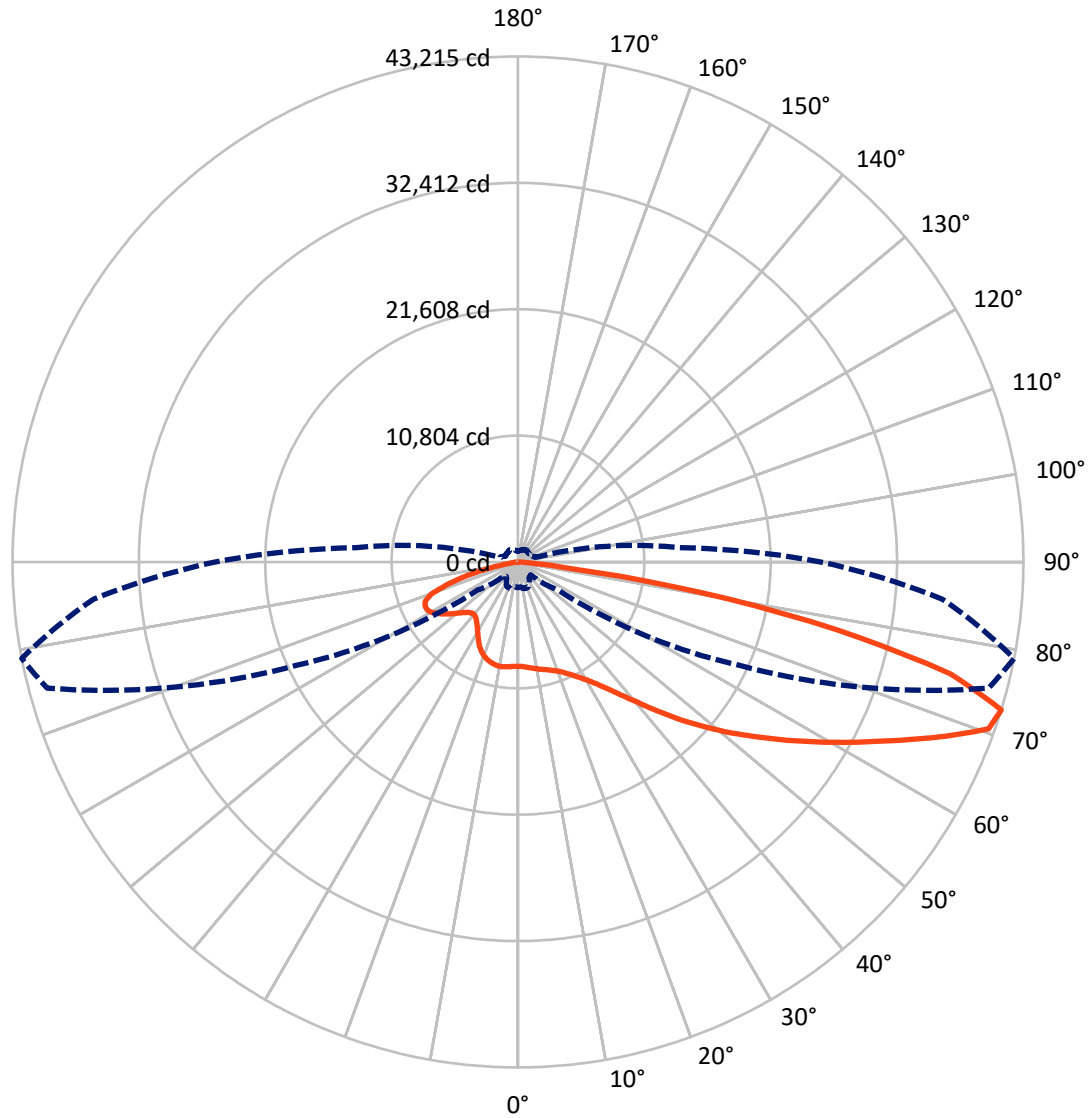
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9776.6	0.0	9776.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	34651.4	0.0	34651.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	44428.0	0.0	44428.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.5	1.8
10°-20°	2116.6	4.8
20°-30°	3415.2	7.7
30°-40°	5125.8	11.5
40°-50°	7271.2	16.4
50°-60°	9182.6	20.7
60°-70°	9326.2	21.0
70°-80°	6356.2	14.3
80°-90°	824.7	1.9
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°	44428.0	100.0
0°-180°	44428.0	100.0

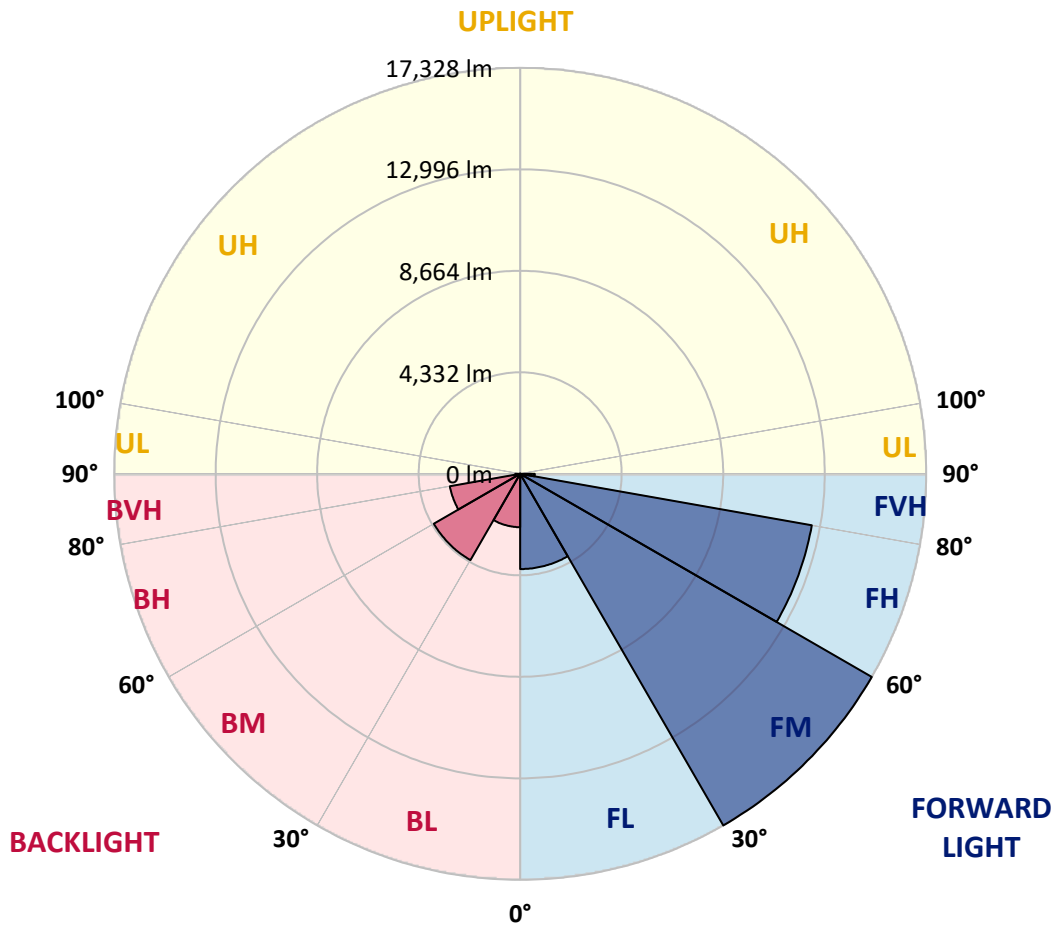


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4064.1	9.1			
FM (30°-60°)	17327.8	39.0			
FH (60°-80°)	12638.3	28.4			G5
FVH (80°-90°)	621.2	1.4			G4/750
BL (0°-30°)	2277.3	5.1	B3/2500		
BM (30°-60°)	4251.8	9.6	B3/5000		
BH (60°-80°)	3044.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	203.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5
2.5°	8923.2	8880.9	8906.7	8897.3	8909.1	8923.2	8927.9	8934.9	8958.4	8956.1
5°	8904.4	8862.1	8897.3	8885.6	8916.1	8949.0	8977.3	9003.1	9040.7	9057.2
7.5°	8864.4	8836.2	8871.5	8906.7	8963.1	9012.5	9052.5	9111.2	9165.3	9174.7
10°	8631.8	8610.6	8692.9	8784.5	8939.6	9073.6	9160.6	9228.7	9287.5	9296.9
12.5°	8389.7	8363.9	8455.5	8580.1	8831.5	9073.6	9256.9	9346.2	9397.9	9428.5
15°	8349.8	8328.6	8380.3	8488.4	8697.6	9010.2	9322.7	9487.2	9531.9	9567.1
17.5°	8542.5	8502.5	8523.7	8561.3	8683.5	8951.4	9374.4	9647.0	9715.2	9752.8
20°	8989.0	8932.6	8899.7	8824.5	8803.3	8960.8	9369.7	9839.7	9929.0	9976.0
22.5°	9583.6	9546.0	9475.5	9285.1	9078.3	9076.0	9459.0	10086.5	10253.3	10298.0
25°	10302.7	10246.3	10157.0	9898.5	9501.3	9303.9	9609.4	10401.4	10681.0	10692.8
27.5°	11129.9	11045.3	10923.1	10582.3	10046.5	9661.1	9839.7	10763.3	11172.2	11167.5
30°	12001.8	11917.2	11787.9	11374.3	10699.8	10142.9	10159.3	11153.4	11755.0	11729.2
32.5°	12638.7	12575.2	12549.3	12229.7	11451.9	10711.6	10525.9	11585.8	12474.1	12450.6
35°	13127.5	13045.2	13075.8	12913.6	12272.0	11348.5	10974.8	12100.5	13348.4	13346.0
37.5°	13611.6	13538.7	13564.6	13456.5	13031.1	12156.9	11522.4	12730.3	14431.8	14483.5
40°	14053.4	13975.8	14079.2	13978.2	13621.0	13017.0	12145.1	13442.4	15686.7	15785.4
42.5°	14318.9	14257.8	14429.4	14431.8	14133.3	13743.2	12829.0	14227.3	17139.0	17359.9
45°	14410.6	14389.5	14648.0	14702.0	14586.9	14163.8	13444.7	15082.7	18704.2	19099.0
47.5°	14311.9	14271.9	14629.2	14828.9	14920.6	14361.3	13954.7	16008.6	20302.2	20880.3
50°	13813.7	13736.1	14267.2	14687.9	15014.6	14490.5	14469.4	17077.9	22118.8	22751.0
52.5°	12918.3	12859.6	13463.5	14194.4	14807.8	14554.0	15047.5	18245.9	23843.8	24661.6
55°	11773.8	11696.3	12361.3	13315.5	14293.1	14532.8	15625.6	19552.5	25878.9	26708.5
57.5°	9959.6	9804.5	10645.8	11773.8	13454.1	14507.0	16227.2	20852.1	27947.0	28941.1
60°	7313.4	7083.1	8114.8	9452.0	11813.8	14255.5	16972.2	22309.2	30428.6	31324.0
62.5°	4258.3	4124.4	4798.8	6046.7	8904.4	12775.0	17390.5	24003.6	32868.0	33808.0
65°	3306.5	3268.9	3327.7	3424.0	4956.3	9564.8	16100.3	25655.7	35970.1	36628.1
67.5°	3024.5	2996.3	3022.2	2841.2	2514.6	5327.6	12737.4	26074.0	39293.1	39692.6
70°	2688.5	2655.6	2740.2	2585.1	1978.8	2422.9	8229.9	24555.8	41936.9	42686.6
72.5°	2190.3	2152.7	2350.1	2279.6	1666.2	1555.7	4133.8	20948.5	41659.6	43215.4
75°	1682.6	1661.5	1896.5	1955.3	1358.3	1224.4	1983.5	15571.5	36661.0	38228.5
77.5°	1306.6	1290.2	1410.0	1623.9	1095.1	949.4	1219.7	9877.3	27627.4	27902.3
80°	980.0	933.0	1043.4	1257.3	853.1	693.3	827.2	5760.0	17463.3	15830.0
82.5°	613.4	589.9	681.5	839.0	601.6	477.1	538.2	3182.0	6998.5	4122.0
85°	350.2	340.8	371.3	479.4	326.7	275.0	307.9	1405.3	1278.4	878.9
87.5°	141.0	136.3	169.2	213.9	119.9	101.1	108.1	338.4	282.0	260.9
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°
8918.5	0°	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5	8918.5
8953.7	2.5°	8944.3	8944.3	8911.4	8859.7	8801.0	8763.4	8702.3	8685.8	8622.4	8603.6
9033.7	5°	9052.5	9033.7	8932.6	8786.9	8587.1	8403.8	8201.7	8074.8	7896.2	7832.8
9191.1	7.5°	9188.8	9137.1	8963.1	8643.5	8225.2	7814.0	7386.3	7061.9	6751.7	6641.3
9320.4	10°	9313.3	9240.5	8944.3	8385.0	7661.2	6949.1	6267.6	5790.6	5428.7	5280.6
9463.7	12.5°	9437.9	9303.9	8819.8	7955.0	6859.8	5894.0	5167.8	4796.5	4573.2	4394.6
9581.2	15°	9555.4	9367.4	8627.1	7379.2	5980.9	5000.9	4465.1	4169.0	3990.4	3872.9
9752.8	17.5°	9691.7	9421.4	8338.0	6648.3	5144.3	4382.9	3945.8	3767.2	3731.9	3717.8
9987.8	20°	9882.0	9470.8	7957.3	5830.5	4528.6	3889.4	3663.8	3647.3	3645.0	3637.9
10269.8	22.5°	10086.5	9529.5	7454.4	5087.9	4004.5	3581.5	3541.5	3508.6	3487.5	3485.1
10610.5	25°	10328.5	9548.3	6824.6	4479.2	3558.0	3435.8	3388.8	3339.4	3325.3	3325.3
10998.3	27.5°	10563.5	9484.9	6091.4	3950.5	3306.5	3301.8	3240.7	3224.3	3221.9	3229.0
11440.1	30°	10798.6	9365.0	5362.8	3461.6	3160.8	3160.8	3139.7	3151.4	3160.8	3184.3
12046.4	32.5°	11115.8	9238.1	4754.2	3099.7	3033.9	3010.4	3031.6	3055.1	3064.5	3095.0
12843.1	35°	11581.1	9148.8	4270.1	2902.3	2902.3	2871.8	2883.5	2878.8	2857.7	2843.6
13806.6	37.5°	12196.8	9144.1	3870.6	2810.7	2791.9	2787.2	2789.5	2759.0	2676.7	2578.0
14972.3	40°	12937.1	9271.0	3562.7	2747.2	2733.1	2761.3	2747.2	2665.0	2439.4	2267.8
16405.8	42.5°	13931.2	9632.9	3365.3	2669.7	2712.0	2747.2	2690.8	2406.5	2253.7	2138.6
18039.1	45°	15101.5	10220.4	3264.2	2587.4	2672.0	2714.3	2441.7	2317.2	2195.0	2056.3
19820.5	47.5°	16427.0	10960.7	3240.7	2509.9	2582.7	2608.6	2336.0	2279.6	2140.9	1990.5
21611.2	50°	17869.9	11837.3	3304.2	2418.2	2453.5	2364.2	2300.7	2249.0	2105.7	1957.6
23446.6	52.5°	19362.2	12803.2	3431.1	2293.7	2324.2	2225.5	2286.6	2242.0	2084.5	1884.8
25343.1	55°	20828.6	13776.1	3553.3	2148.0	2192.6	2101.0	2246.7	2213.8	1988.2	1762.5
27366.5	57.5°	22318.6	14744.3	3673.2	2018.7	2065.7	1981.1	2183.2	2138.6	1880.1	1649.7
29575.6	60°	23867.3	15684.3	3729.6	1894.2	1927.1	1870.7	2086.9	2009.3	1757.8	1534.6
31747.0	62.5°	25317.3	16466.9	3637.9	1769.6	1790.7	1767.2	1960.0	1856.6	1635.6	1405.3
34010.1	65°	26771.9	16932.2	3355.9	1647.4	1652.1	1640.3	1781.3	1692.0	1492.3	1292.5
35991.3	67.5°	28090.3	17193.1	2907.0	1515.8	1504.0	1499.3	1614.5	1513.4	1353.6	1179.7
37497.6	70°	28370.0	16530.4	2220.8	1360.7	1360.7	1348.9	1431.2	1327.8	1200.9	1059.9
36419.0	72.5°	25911.8	13905.3	1576.9	1184.4	1203.2	1179.7	1247.9	1160.9	1045.8	951.8
31387.5	75°	20894.4	10196.9	1146.8	1003.5	1036.4	996.4	1059.9	998.8	900.1	897.7
21630.0	77.5°	14356.6	6305.2	831.9	827.2	850.7	799.0	871.9	839.0	749.7	709.7
9414.4	80°	6126.6	2514.6	606.3	639.2	639.2	592.2	676.8	686.2	608.7	589.9
1816.6	82.5°	1219.7	714.4	425.4	439.5	413.6	399.5	479.4	531.1	733.2	815.5
547.6	85°	366.6	263.2	256.2	239.7	211.5	213.9	282.0	533.5	658.0	376.0
181.0	87.5°	101.1	65.8	68.2	54.1	44.7	58.8	96.4	404.2	220.9	94.0
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>
8918.5
8634.1
7879.8
6655.4
5313.5
4453.4
3894.1
3727.2
3661.4
3511.0
3339.4
3247.8
3200.8
3120.9
2876.5
2580.4
2263.1
2133.9
2046.9
1978.8
1941.2
1870.7
1750.8
1645.0
1527.5
1403.0
1278.4
1165.6
1055.2
923.6
808.4
665.1
589.9
817.8
324.3
79.9
0.0

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