

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: P953196

Luminaire Tested: **GALN-SB6D-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52443 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

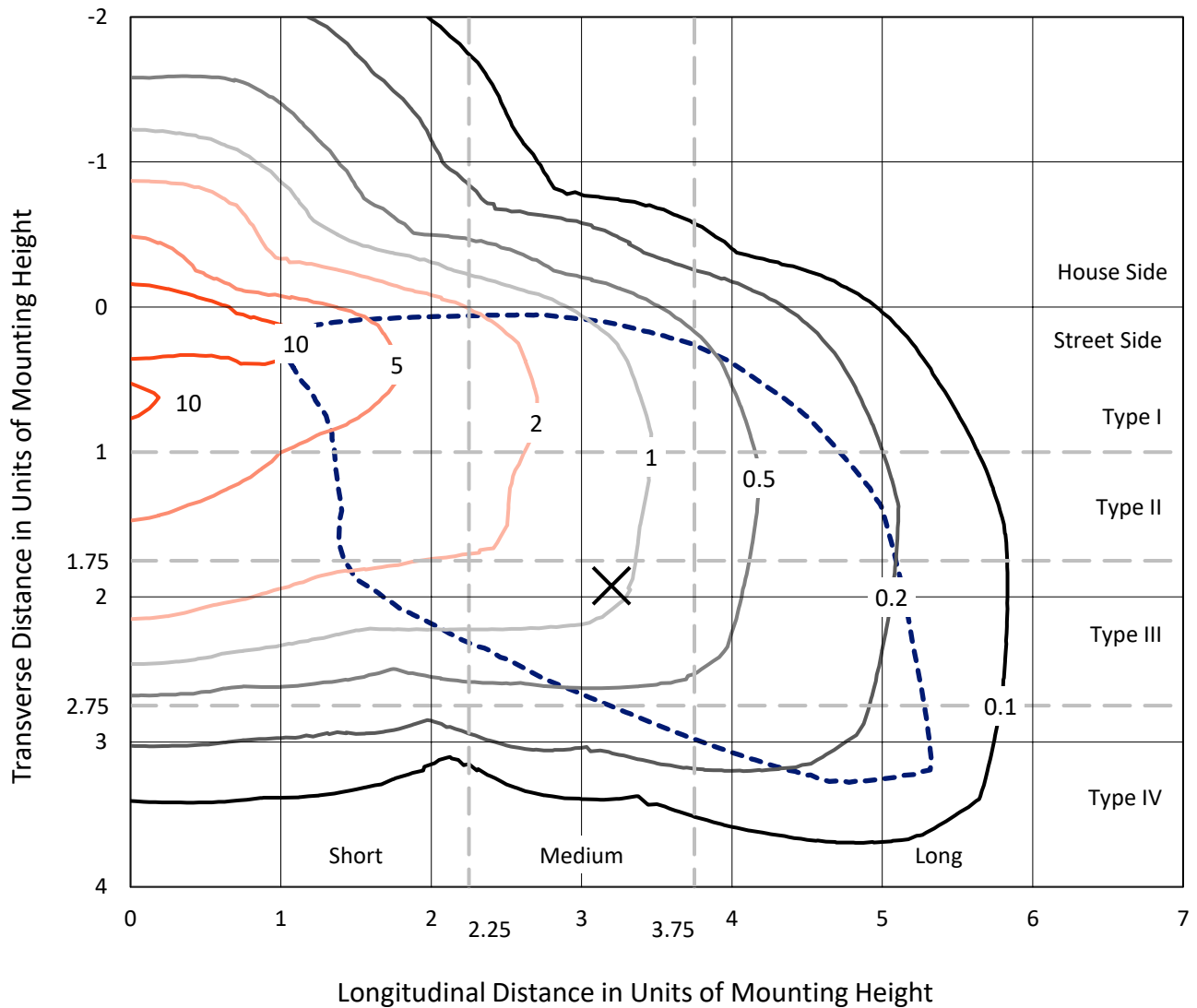
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

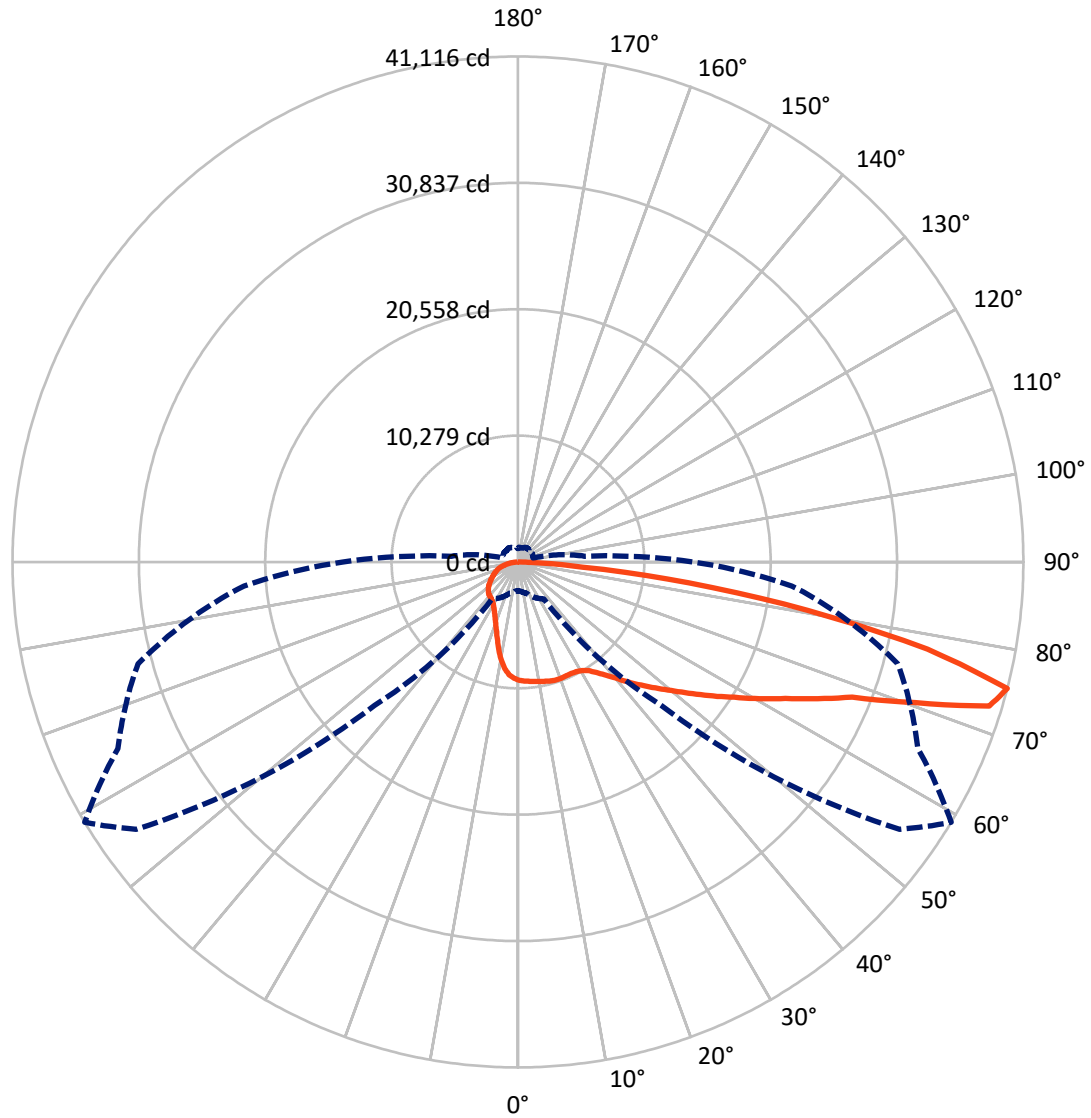
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9836.0	0.0	9836.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	42607.0	0.0	42607.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	52443.0	0.0	52443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.1	1.6
10°-20°	2206.2	4.2
20°-30°	3351.0	6.4
30°-40°	4981.1	9.5
40°-50°	7407.8	14.1
50°-60°	10055.2	19.2
60°-70°	12275.8	23.4
70°-80°	9633.9	18.4
80°-90°	1668.8	3.2
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°	52443.0	100.0
0°-180°	52443.0	100.0

Coefficient of Utilization



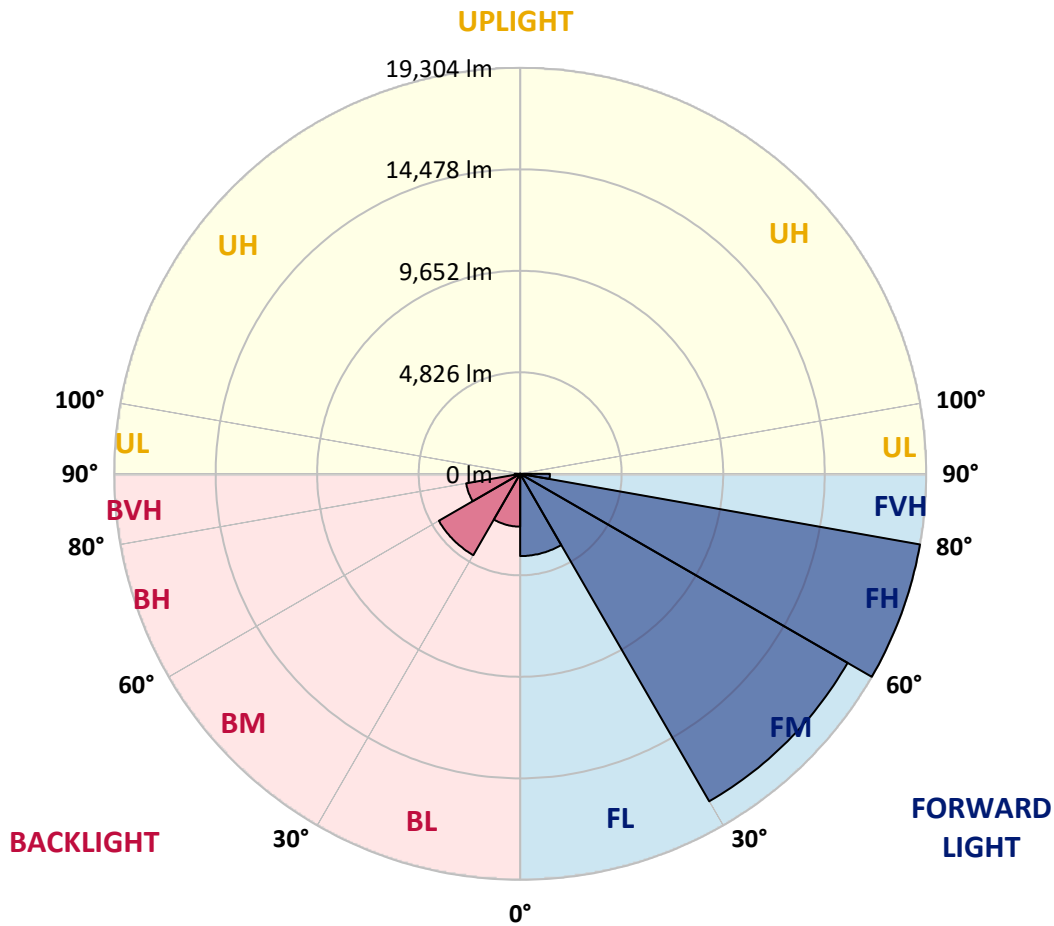
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3910.2	7.5			
FM (30°-60°)	17979.6	34.3			
FH (60°-80°)	19303.8	36.8			G5
FVH (80°-90°)	1413.4	2.7			G5
BL (0°-30°)	2510.1	4.8	B4/5000		
BM (30°-60°)	4464.6	8.5	B3/5000		
BH (60°-80°)	2606.0	5.0	B4/5000		G4/5000
BVH (80°-90°)	255.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8
2.5°	9707.6	9673.8	9707.6	9693.5	9687.9	9676.6	9679.4	9699.1	9687.9	9702.0
5°	9642.7	9623.0	9656.8	9648.4	9685.0	9690.7	9727.4	9749.9	9764.0	9766.9
7.5°	9535.5	9515.8	9563.7	9603.2	9682.2	9704.8	9781.0	9817.6	9837.4	9871.2
10°	9143.4	9134.9	9253.4	9402.9	9589.1	9704.8	9820.5	9882.5	9913.6	10003.8
12.5°	8449.4	8460.7	8615.8	8903.6	9276.0	9648.4	9865.6	9955.9	10003.8	10116.7
15°	7786.4	7783.6	7952.8	8260.4	8782.3	9400.1	9888.2	10043.3	10125.1	10291.6
17.5°	7402.7	7391.4	7509.9	7744.1	8229.3	9019.2	9831.7	10091.3	10266.2	10475.0
20°	7332.2	7309.6	7371.7	7487.4	7831.5	8601.7	9685.0	10091.3	10379.0	10649.9
22.5°	7588.9	7552.2	7526.9	7512.7	7665.1	8257.5	9518.6	10057.4	10545.5	10901.0
25°	8105.2	8048.8	7919.0	7792.0	7746.9	8102.4	9371.9	10049.0	10793.8	11239.5
27.5°	8940.3	8869.7	8607.4	8302.7	8029.0	8181.4	9307.0	10099.8	11067.4	11597.8
30°	9975.6	9899.4	9569.4	9101.1	8610.2	8474.8	9388.8	10249.3	11417.2	12074.6
32.5°	10903.8	10819.1	10537.0	10060.3	9397.3	8982.6	9648.4	10534.2	11967.4	12737.5
35°	11727.6	11628.8	11374.9	10934.8	10362.1	9696.3	10116.7	11039.2	12748.8	13815.2
37.5°	12534.4	12418.7	12142.3	11676.8	11276.2	10647.1	10762.7	11688.1	13787.0	15124.2
40°	13437.2	13270.7	12935.0	12475.2	12085.8	11761.4	11611.9	12483.6	14842.1	16585.6
42.5°	14311.7	14153.8	13753.2	13361.0	12873.0	12779.9	12596.5	13414.6	15996.0	18190.8
45°	15254.0	15065.0	14579.8	14083.2	13775.7	13456.9	13550.0	14345.6	17127.3	19827.1
47.5°	16137.0	15925.4	15352.7	14799.8	14630.5	14026.8	14424.6	15369.7	18303.7	21485.9
50°	16613.8	16405.0	15928.3	15428.9	15296.3	14729.3	15372.5	16495.3	19536.5	23139.1
52.5°	17011.6	16785.9	16162.4	15885.9	15846.5	15493.8	16540.5	17781.8	20769.4	24600.5
55°	17434.8	17183.7	16388.1	16139.9	16320.4	16351.4	17925.6	19240.3	22072.8	26025.2
57.5°	17922.8	17604.0	16605.3	16354.3	16783.1	17355.8	19516.8	20752.4	23353.6	27345.5
60°	18382.7	18061.1	17022.9	16695.6	17282.4	18520.9	21342.1	22583.4	24803.6	28521.9
62.5°	18473.0	18207.8	17355.8	17353.0	17959.5	19880.7	23503.1	24431.2	26070.3	29684.2
65°	16910.0	16743.6	16238.6	17327.6	18930.0	21838.6	25909.5	26795.4	27681.2	30699.9
67.5°	12870.1	12892.7	12856.0	14957.8	18145.7	24651.3	29393.7	29326.0	29670.1	31839.6
70°	5884.9	6017.5	6880.8	10325.4	14537.4	24975.7	35154.5	34277.1	32166.9	33315.1
72.5°	3179.4	3281.0	3633.7	5001.9	8740.0	22205.3	39459.6	40083.0	35487.4	34308.1
75°	2333.1	2389.5	2635.0	3179.4	3670.3	16503.8	37916.4	41115.6	35902.1	31991.9
77.5°	1746.3	1771.7	1972.0	2519.3	1878.9	8700.5	30296.4	34051.4	30733.7	26284.7
80°	1266.7	1294.9	1444.4	1890.2	1317.5	3182.3	20803.2	23900.9	21048.7	16754.9
82.5°	874.6	885.8	950.7	1286.4	919.7	1235.7	11803.7	14015.5	11750.1	5879.3
85°	527.6	541.7	569.9	750.4	521.9	586.8	5095.0	5269.9	3512.3	1404.9
87.5°	217.2	231.3	253.9	316.0	205.9	163.6	840.7	1055.1	657.3	411.9
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°
9625.8	0°	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8	9625.8
9654.0	2.5°	9639.9	9620.2	9566.6	9493.2	9425.5	9340.9	9304.2	9273.2	9244.9	9191.3
9730.2	5°	9699.1	9645.5	9501.7	9315.5	9103.9	8872.5	8646.9	8491.7	8359.1	8260.4
9817.6	7.5°	9789.4	9687.9	9425.5	9044.6	8559.4	8062.9	7614.3	7295.5	7055.7	6968.3
9941.8	10°	9882.5	9761.2	9304.2	8632.7	7794.9	7030.3	6435.1	6107.8	5916.0	5853.9
10088.5	12.5°	9992.5	9814.8	9115.2	8060.1	6940.1	6102.2	5583.1	5391.2	5292.5	5258.6
10269.0	15°	10153.4	9860.0	8830.2	7343.5	6124.7	5425.1	5089.4	4956.8	4906.0	4903.2
10455.2	17.5°	10274.7	9868.4	8387.3	6576.1	5498.4	5016.0	4739.5	4688.8	4722.6	4773.4
10638.6	20°	10410.1	9792.2	7806.1	5876.5	5058.3	4657.7	4542.1	4575.9	4657.7	4731.1
10881.2	22.5°	10506.0	9654.0	7103.7	5332.0	4677.5	4451.8	4446.1	4516.7	4561.8	4598.5
11166.1	25°	10590.6	9419.9	6358.9	4875.0	4364.3	4327.7	4389.7	4367.2	4336.1	4367.2
11451.1	27.5°	10652.7	9050.3	5693.1	4474.4	4144.3	4243.0	4206.3	4155.6	4152.7	4169.7
11786.8	30°	10632.9	8556.6	5145.8	4093.5	3989.1	4085.0	3997.6	3989.1	3980.7	3989.1
12291.8	32.5°	10632.9	7995.2	4725.4	3831.1	3890.4	3853.7	3845.2	3825.5	3791.6	3788.8
12977.3	35°	10692.2	7433.8	4364.3	3690.1	3808.6	3721.1	3726.8	3678.8	3608.3	3574.4
13885.7	37.5°	10813.5	6982.4	4006.0	3622.4	3664.7	3661.9	3639.3	3557.5	3433.4	3326.1
15019.9	40°	11106.9	6849.8	3760.6	3591.3	3597.0	3630.8	3571.6	3413.6	3131.5	2956.6
16170.9	42.5°	11566.8	7072.6	3707.0	3515.2	3551.8	3585.7	3470.0	3103.3	2903.0	2798.6
17378.3	45°	12150.7	7462.0	3822.7	3405.1	3444.6	3503.9	3159.7	2984.8	2894.5	2897.3
18574.5	47.5°	12889.9	7871.0	4037.1	3309.2	3289.5	3323.3	2953.8	2846.5	2722.4	2753.5
19722.7	50°	13744.7	8285.7	4240.2	3179.4	3117.4	3007.4	2821.2	2719.6	2561.6	2488.3
20831.4	52.5°	14670.0	8686.3	4322.0	3021.5	2931.2	2804.2	2730.9	2606.8	2414.9	2293.6
21878.1	55°	15547.4	9050.3	4231.7	2832.4	2745.0	2646.2	2635.0	2558.8	2352.8	2183.6
22809.1	57.5°	16376.8	9355.0	4006.0	2640.6	2556.0	2496.7	2572.9	2536.2	2276.7	2059.4
23689.3	60°	17079.3	9563.7	3678.8	2445.9	2386.7	2355.7	2471.3	2460.1	2169.5	1926.9
24479.2	62.5°	17637.9	9645.5	3317.7	2259.7	2245.6	2189.2	2330.3	2330.3	2034.1	1797.1
25173.2	65°	18075.2	9566.6	2950.9	2076.4	2104.6	2020.0	2158.2	2141.3	1890.2	1681.4
25971.6	67.5°	18461.7	9307.0	2544.7	1895.8	1960.7	1853.5	1977.6	1938.1	1732.2	1565.7
26662.8	70°	18633.8	8703.3	2082.0	1715.3	1794.3	1689.9	1797.1	1723.7	1554.5	1441.6
25903.9	72.5°	17251.4	7233.5	1639.1	1526.2	1594.0	1509.3	1602.4	1517.8	1362.6	1311.8
22369.0	75°	14272.2	5427.9	1261.1	1320.3	1371.1	1306.2	1368.3	1306.2	1165.1	1201.8
16523.5	77.5°	10364.9	3664.7	964.8	1103.1	1125.6	1091.8	1145.4	1074.9	947.9	939.4
8235.0	80°	5154.3	2146.9	756.1	871.7	863.3	840.7	902.8	868.9	761.7	806.9
2223.1	82.5°	1492.4	919.7	550.1	612.2	595.3	600.9	646.0	663.0	993.0	984.6
691.2	85°	468.3	361.1	330.1	341.4	324.4	332.9	380.9	756.1	699.6	409.1
214.4	87.5°	121.3	124.1	81.8	87.5	90.3	107.2	121.3	459.8	220.1	143.9
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>
9625.8
9165.9
8178.5
6815.9
5758.0
5267.1
4914.5
4793.1
4756.5
4618.2
4386.9
4197.9
4020.2
3825.5
3608.3
3362.8
2979.1
2798.6
2911.4
2832.4
2508.0
2290.8
2183.6
2048.2
1918.4
1788.6
1670.1
1554.5
1419.0
1269.5
1097.4
897.1
798.4
1007.2
442.9
152.3
0.0

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