

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: P951810

Luminaire Tested: **GALN-SB5D-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951810
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-SB5D-835-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 46598 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

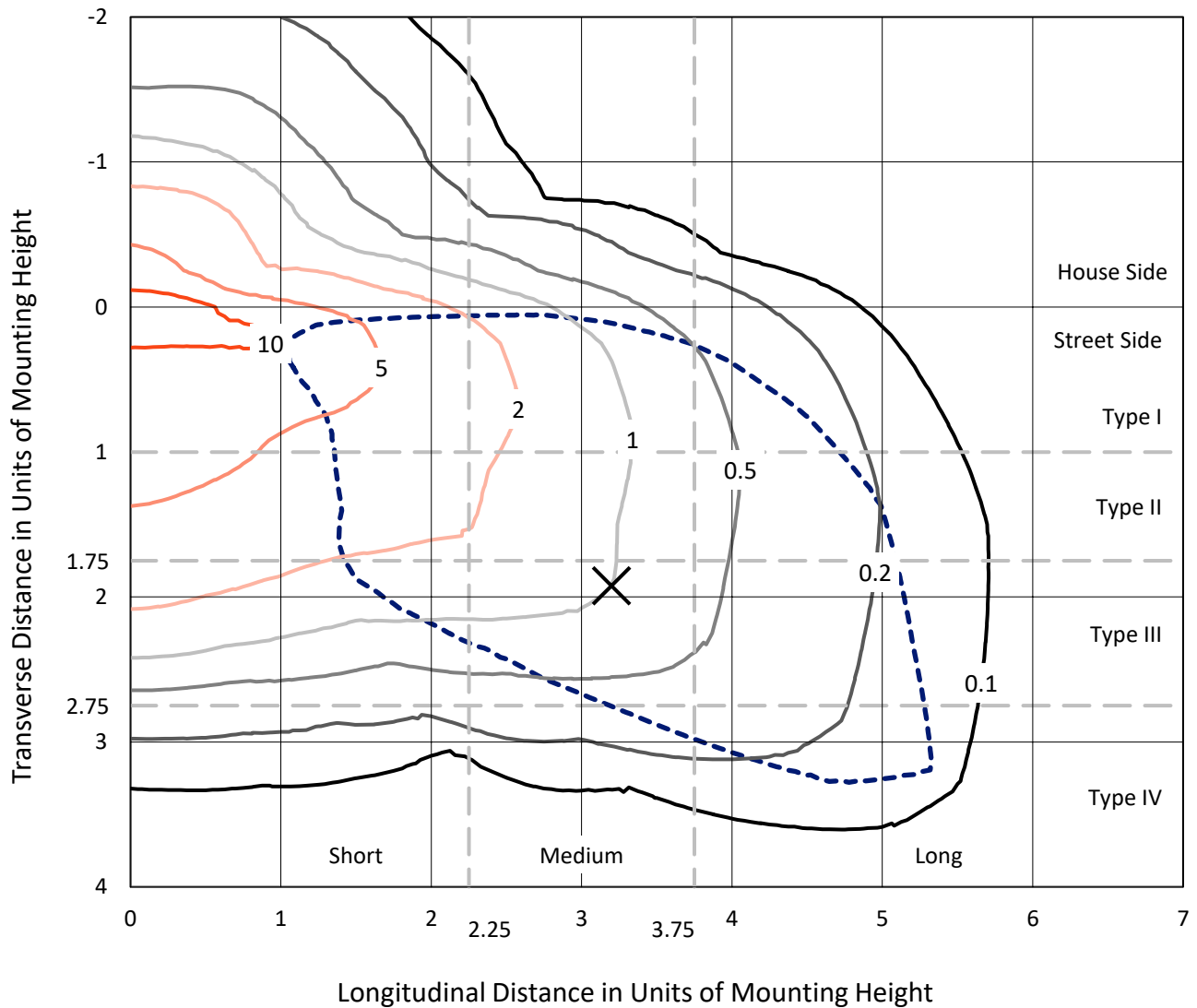
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

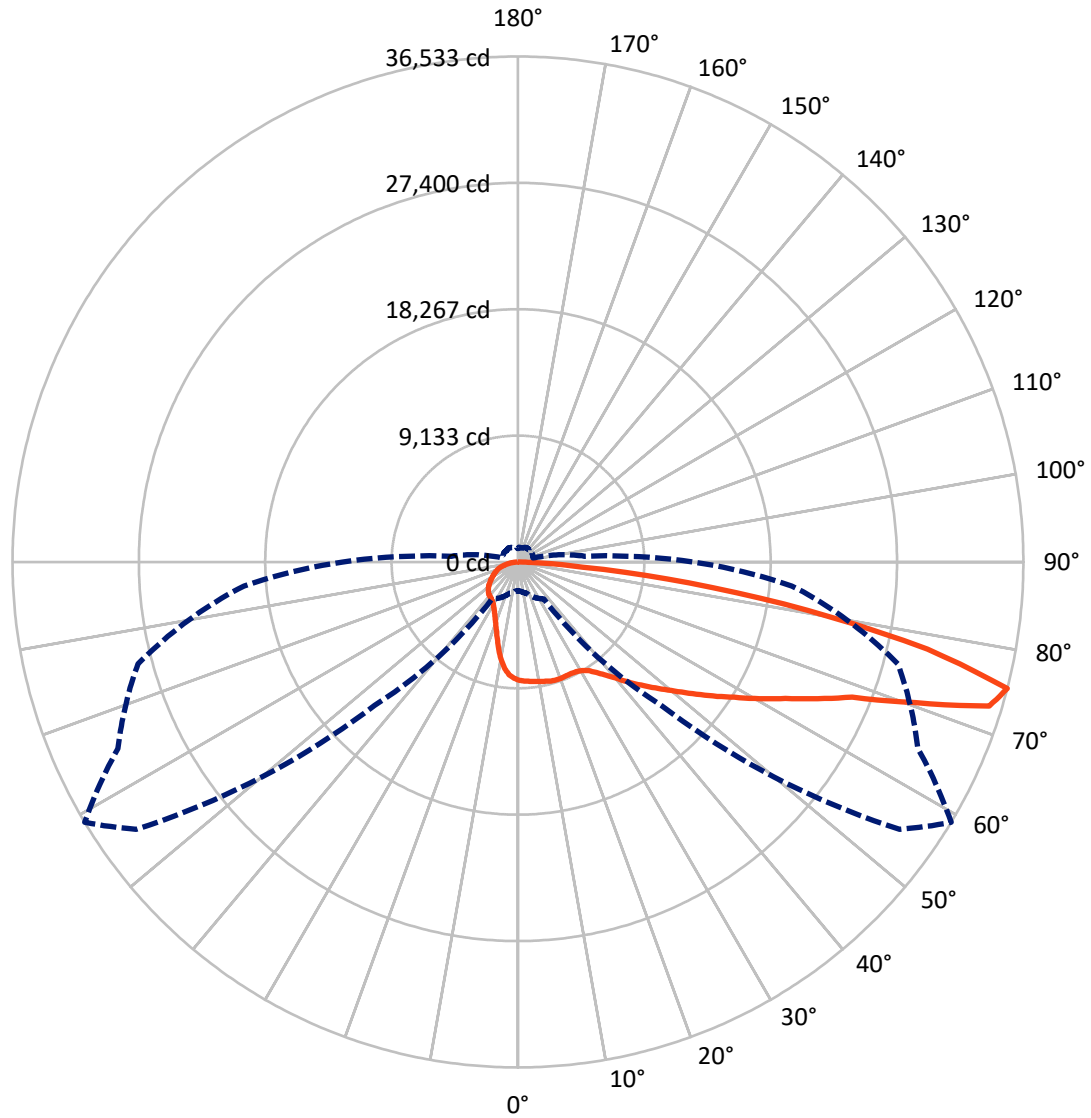
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	8739.8	0.0	8739.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	37858.2	0.0	37858.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	46598.0	0.0	46598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.9	1.6
10°-20°	1960.3	4.2
20°-30°	2977.5	6.4
30°-40°	4426.0	9.5
40°-50°	6582.2	14.1
50°-60°	8934.5	19.2
60°-70°	10907.6	23.4
70°-80°	8560.2	18.4
80°-90°	1482.8	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°	46598.0	100.0
0°-180°	46598.0	100.0

Coefficient of Utilization

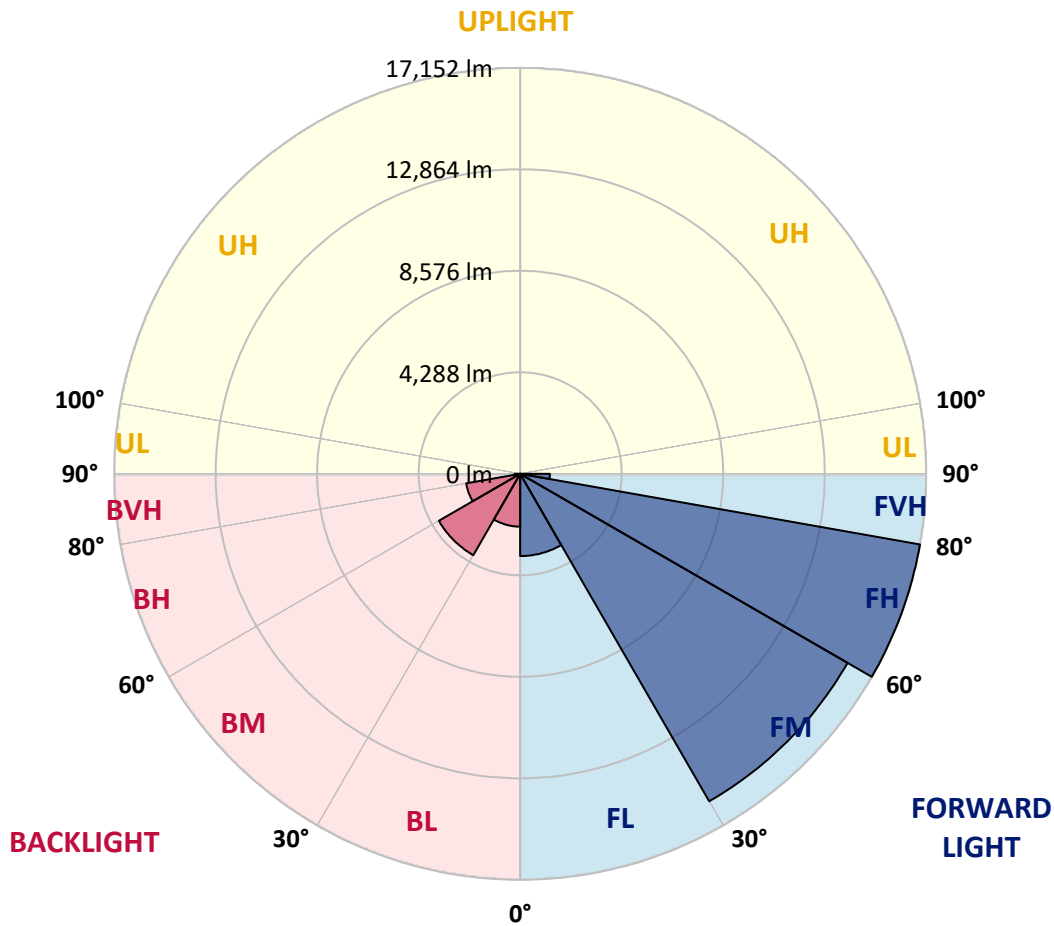


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3474.4	7.5			
FM (30°-60°)	15975.7	34.3			
FH (60°-80°)	17152.3	36.8			G5
FVH (80°-90°)	1255.8	2.7			G5
BL (0°-30°)	2230.3	4.8	B3/2500		
BM (30°-60°)	3967.0	8.5	B3/5000		
BH (60°-80°)	2315.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	227.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0
2.5°	8625.7	8595.6	8625.7	8613.1	8608.1	8598.1	8600.6	8618.1	8608.1	8620.6
5°	8568.0	8550.5	8580.5	8573.0	8605.6	8610.6	8643.2	8663.3	8675.8	8678.3
7.5°	8472.7	8455.2	8497.8	8532.9	8603.1	8623.1	8690.8	8723.4	8741.0	8771.0
10°	8124.3	8116.8	8222.1	8354.9	8520.4	8623.1	8725.9	8781.1	8808.6	8888.9
12.5°	7507.7	7517.7	7655.6	7911.2	8242.1	8573.0	8766.0	8846.2	8888.9	8989.1
15°	6918.6	6916.1	7066.5	7339.7	7803.4	8352.4	8786.1	8924.0	8996.7	9144.5
17.5°	6577.7	6567.6	6672.9	6881.0	7312.1	8014.0	8736.0	8966.6	9122.0	9307.5
20°	6515.0	6494.9	6550.1	6652.9	6958.7	7643.0	8605.6	8966.6	9222.3	9462.9
22.5°	6743.1	6710.5	6688.0	6675.4	6810.8	7337.2	8457.7	8936.5	9370.2	9686.0
25°	7201.8	7151.7	7036.4	6923.6	6883.5	7199.3	8327.4	8929.0	9590.7	9986.8
27.5°	7943.8	7881.2	7648.0	7377.3	7134.2	7269.5	8269.7	8974.1	9833.9	10305.2
30°	8863.8	8796.1	8502.8	8086.7	7650.5	7530.2	8342.4	9106.9	10144.7	10728.8
32.5°	9688.5	9613.3	9362.6	8939.0	8349.9	7981.4	8573.0	9360.1	10633.5	11317.9
35°	10420.5	10332.7	10107.1	9716.1	9207.2	8615.6	8989.1	9808.8	11327.9	12275.5
37.5°	11137.4	11034.6	10789.0	10375.4	10019.4	9460.4	9563.2	10385.4	12250.4	13438.6
40°	11939.5	11791.7	11493.4	11084.8	10738.8	10450.6	10317.7	11092.3	13187.9	14737.1
42.5°	12716.6	12576.3	12220.3	11871.9	11438.2	11355.5	11192.5	11919.5	14213.2	16163.4
45°	13553.9	13385.9	12954.8	12513.6	12240.4	11957.1	12039.8	12746.7	15218.4	17617.3
47.5°	14338.5	14150.5	13641.6	13150.3	12999.9	12463.5	12816.9	13656.7	16263.7	19091.2
50°	14762.1	14576.6	14153.0	13709.3	13591.5	13087.6	13659.2	14656.8	17359.1	20560.2
52.5°	15115.6	14915.0	14361.0	14115.4	14080.3	13767.0	14697.0	15799.9	18454.5	21858.7
55°	15491.6	15268.5	14561.6	14341.0	14501.4	14529.0	15927.8	17095.9	19612.6	23124.6
57.5°	15925.2	15642.0	14754.6	14531.5	14912.5	15421.4	17341.6	18439.5	20750.7	24297.7
60°	16333.8	16048.1	15125.6	14834.8	15356.2	16456.7	18963.4	20066.4	22039.2	25343.0
62.5°	16414.1	16178.4	15421.4	15418.9	15957.8	17664.9	20883.6	21708.3	23164.7	26375.8
65°	15025.3	14877.4	14428.7	15396.3	16820.2	19404.6	23021.8	23808.9	24596.0	27278.2
67.5°	11435.7	11455.8	11423.2	13290.7	16123.3	21903.8	26117.6	26057.4	26363.3	28290.9
70°	5229.0	5346.9	6113.9	9174.6	12917.2	22192.1	31236.3	30456.8	28581.7	29602.0
72.5°	2825.1	2915.3	3228.7	4444.4	7765.8	19730.5	35061.6	35615.6	31532.1	30484.3
75°	2073.1	2123.2	2341.3	2825.1	3261.3	14664.4	33690.4	36533.1	31900.6	28426.3
77.5°	1551.7	1574.2	1752.2	2238.5	1669.5	7730.8	26919.8	30256.2	27308.3	23355.2
80°	1125.5	1150.6	1283.4	1679.5	1170.6	2827.6	18484.6	21237.0	18702.7	14887.5
82.5°	777.1	787.1	844.8	1143.1	817.2	1097.9	10488.2	12453.4	10440.5	5224.0
85°	468.8	481.3	506.4	666.8	463.7	521.4	4527.2	4682.6	3120.9	1248.4
87.5°	193.0	205.6	225.6	280.8	183.0	145.4	747.0	937.5	584.1	366.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8553.0	0°	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0	8553.0
8578.0	2.5°	8565.5	8547.9	8500.3	8435.1	8375.0	8299.8	8267.2	8239.6	8214.6	8166.9
8645.7	5°	8618.1	8570.5	8442.7	8277.2	8089.2	7883.7	7683.1	7545.3	7427.4	7339.7
8723.4	7.5°	8698.3	8608.1	8375.0	8036.6	7605.4	7164.2	6765.7	6482.4	6269.3	6191.6
8833.7	10°	8781.1	8673.3	8267.2	7670.6	6926.1	6246.8	5717.8	5427.1	5256.6	5201.5
8964.1	12.5°	8878.8	8720.9	8099.2	7161.7	6166.6	5422.1	4960.8	4790.4	4702.6	4672.5
9124.5	15°	9021.7	8761.0	7846.1	6525.0	5442.1	4820.4	4522.1	4404.3	4359.2	4356.7
9289.9	17.5°	9129.5	8768.5	7452.5	5843.2	4885.6	4457.0	4211.3	4166.2	4196.3	4241.4
9452.9	20°	9249.8	8700.9	6936.1	5221.5	4494.6	4138.6	4035.8	4065.9	4138.6	4203.8
9668.5	22.5°	9335.1	8578.0	6311.9	4737.7	4156.2	3955.6	3950.6	4013.3	4053.4	4086.0
9921.6	25°	9410.3	8370.0	5650.2	4331.6	3877.9	3845.3	3900.5	3880.4	3852.8	3880.4
10174.8	27.5°	9465.4	8041.6	5058.6	3975.7	3682.4	3770.1	3737.5	3692.4	3689.9	3704.9
10473.1	30°	9447.9	7602.9	4572.3	3637.3	3544.5	3629.7	3552.0	3544.5	3537.0	3544.5
10921.8	32.5°	9447.9	7104.1	4198.8	3404.1	3456.8	3424.2	3416.7	3399.1	3369.0	3366.5
11531.0	35°	9500.5	6605.2	3877.9	3278.8	3384.1	3306.4	3311.4	3268.8	3206.1	3176.0
12338.1	37.5°	9608.3	6204.2	3559.6	3218.6	3256.2	3253.7	3233.7	3161.0	3050.7	2955.4
13345.8	40°	9869.0	6086.3	3341.5	3191.1	3196.1	3226.2	3173.5	3033.1	2782.5	2627.1
14368.6	42.5°	10277.6	6284.4	3293.8	3123.4	3156.0	3186.1	3083.3	2757.4	2579.4	2486.7
15441.5	45°	10796.5	6630.3	3396.6	3025.6	3060.7	3113.4	2807.5	2652.1	2571.9	2574.4
16504.3	47.5°	11453.2	6993.8	3587.1	2940.4	2922.8	2952.9	2624.5	2529.3	2419.0	2446.6
17524.5	50°	12212.8	7362.3	3767.6	2825.1	2769.9	2672.2	2506.7	2416.5	2276.1	2210.9
18509.7	52.5°	13035.0	7718.2	3840.3	2684.7	2604.5	2491.7	2426.5	2316.2	2145.8	2038.0
19439.7	55°	13814.6	8041.6	3760.1	2516.8	2439.0	2351.3	2341.3	2273.6	2090.6	1940.2
20266.9	57.5°	14551.6	8312.3	3559.6	2346.3	2271.1	2218.5	2286.1	2253.5	2022.9	1829.9
21049.0	60°	15175.7	8497.8	3268.8	2173.3	2120.7	2093.1	2195.9	2185.9	1927.7	1712.1
21750.9	62.5°	15672.1	8570.5	2947.9	2007.9	1995.4	1945.2	2070.6	2070.6	1807.4	1596.8
22367.5	65°	16060.6	8500.3	2622.0	1845.0	1870.0	1794.8	1917.6	1902.6	1679.5	1494.0
23076.9	67.5°	16404.0	8269.7	2261.1	1684.5	1742.2	1646.9	1757.2	1722.1	1539.1	1391.2
23691.1	70°	16556.9	7733.3	1850.0	1524.1	1594.3	1501.5	1596.8	1531.6	1381.2	1280.9
23016.8	72.5°	15328.6	6427.3	1456.4	1356.1	1416.3	1341.1	1423.8	1348.6	1210.8	1165.6
19875.9	75°	12681.5	4822.9	1120.5	1173.1	1218.3	1160.6	1215.8	1160.6	1035.3	1067.9
14681.9	77.5°	9209.7	3256.2	857.3	980.1	1000.2	970.1	1017.7	955.1	842.3	834.7
7317.1	80°	4579.8	1907.6	671.8	774.6	767.1	747.0	802.2	772.1	676.8	716.9
1975.3	82.5°	1326.1	817.2	488.8	544.0	528.9	533.9	574.0	589.1	882.4	874.8
614.1	85°	416.1	320.9	293.3	303.3	288.3	295.8	338.4	671.8	621.7	363.5
190.5	87.5°	107.8	110.3	72.7	77.7	80.2	95.3	107.8	408.6	195.5	127.8
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>
8553.0
8144.4
7267.0
6056.3
5116.2
4680.1
4366.7
4258.9
4226.3
4103.5
3898.0
3730.0
3572.1
3399.1
3206.1
2988.0
2647.1
2486.7
2586.9
2516.8
2228.5
2035.5
1940.2
1819.9
1704.6
1589.3
1484.0
1381.2
1260.9
1128.0
975.1
797.1
709.4
894.9
393.6
135.4
0.0

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