

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: P956845

Luminaire Tested: **GALN-SB9B-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49895 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

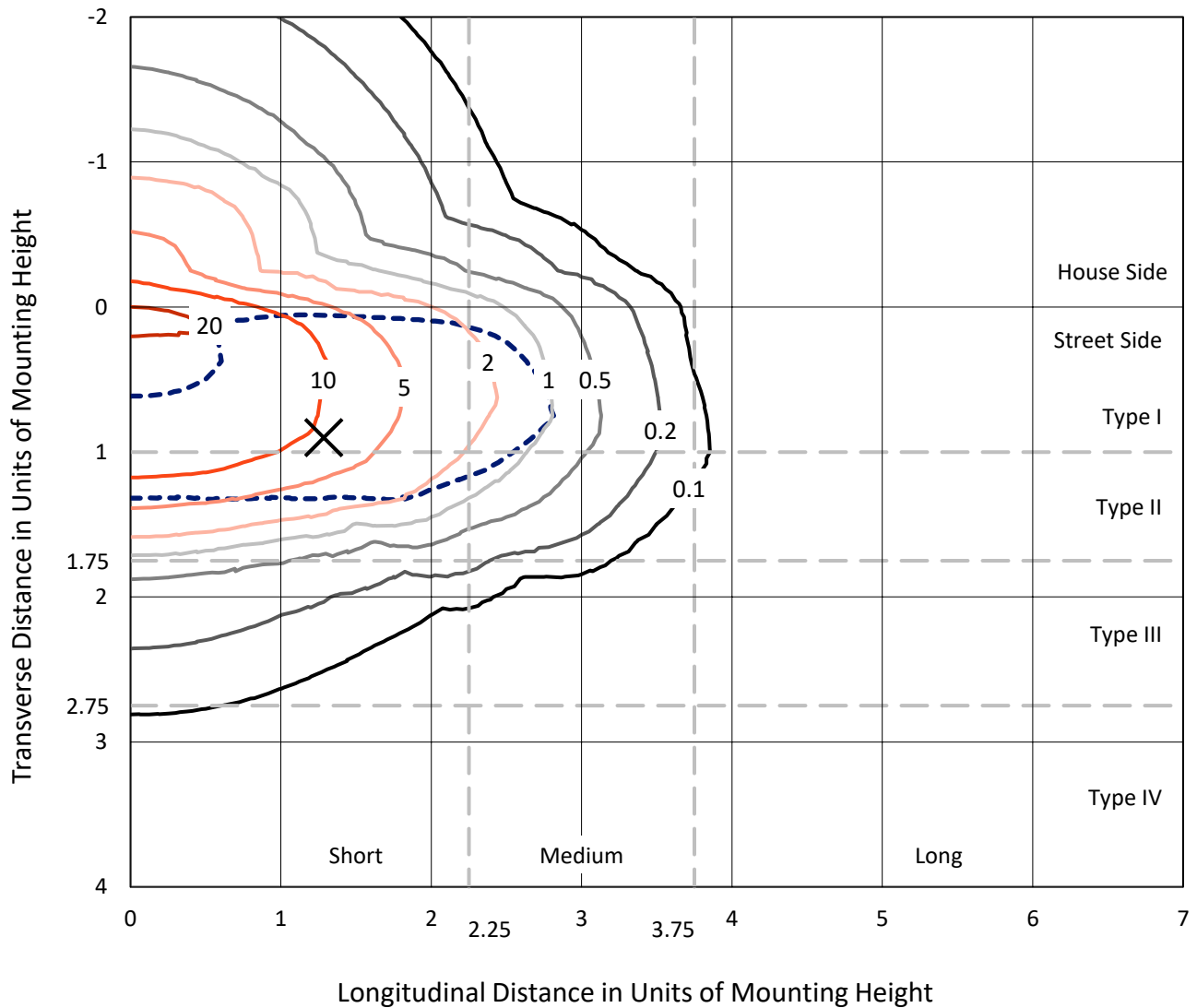
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

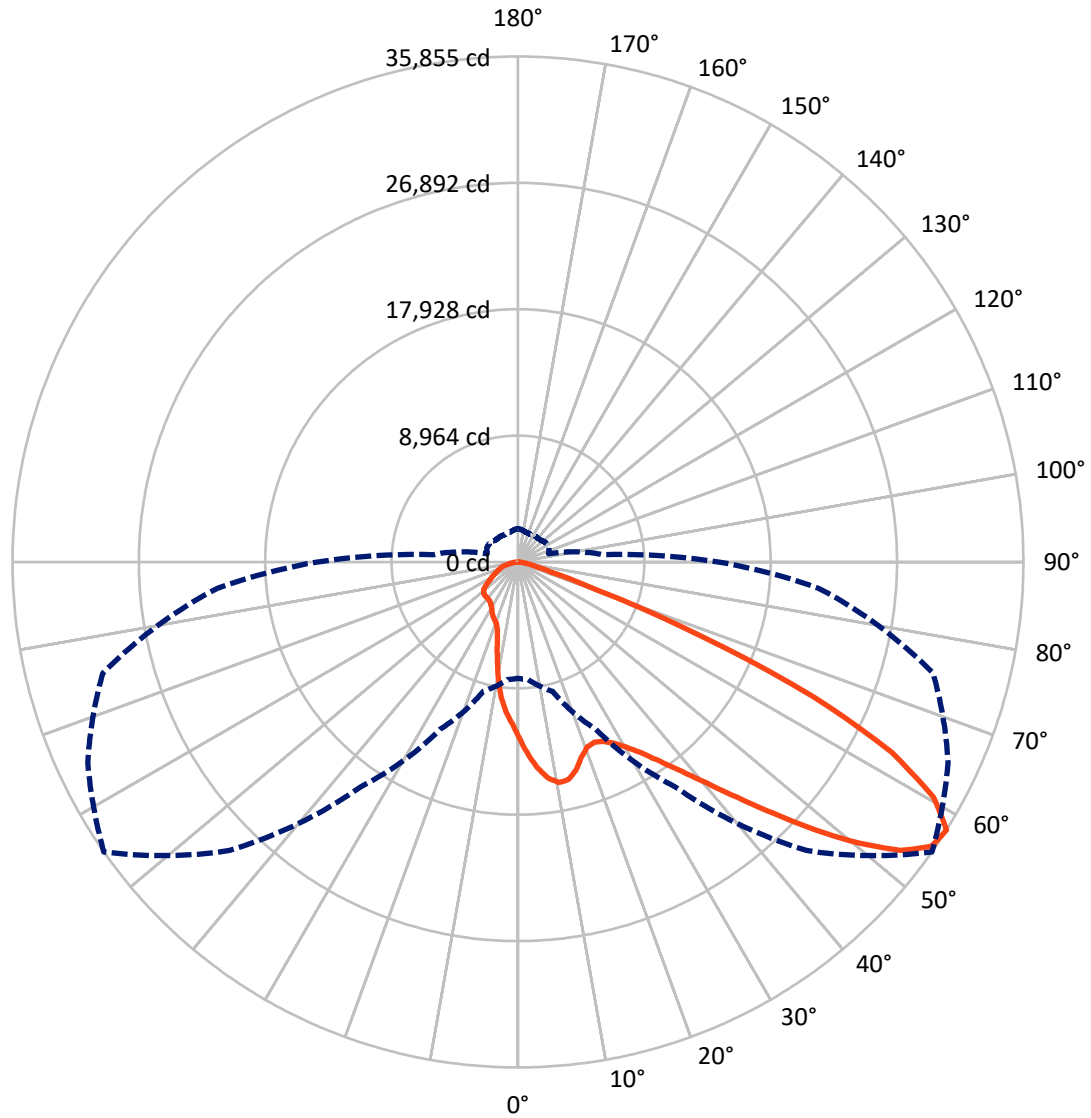
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9028.3	0.0	9028.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40866.7	0.0	40866.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	49895.0	0.0	49895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.1	2.3
10°-20°	2928.2	5.9
20°-30°	4672.6	9.4
30°-40°	7397.8	14.8
40°-50°	11323.1	22.7
50°-60°	12128.1	24.3
60°-70°	7629.9	15.3
70°-80°	2256.3	4.5
80°-90°	398.9	0.8
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°	49895.0	100.0
0°-180°	49895.0	100.0

Coefficient of Utilization



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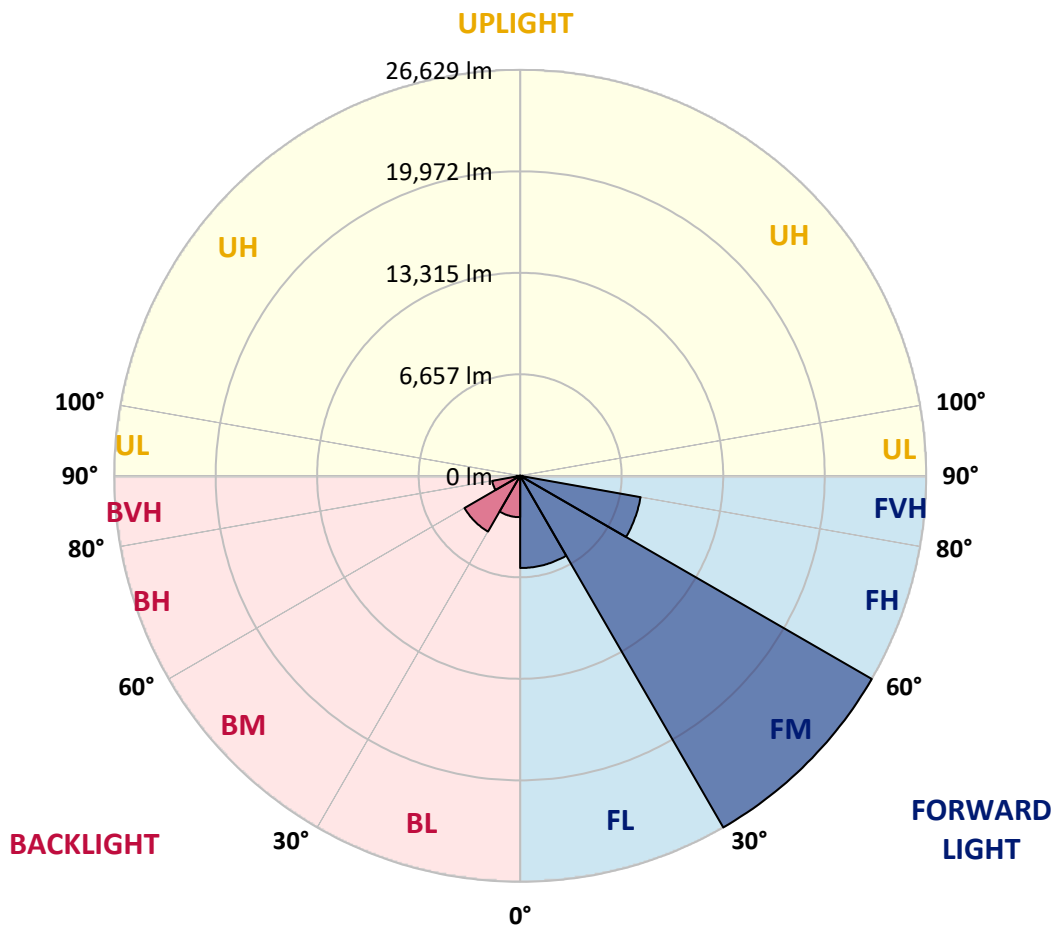
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6047.3	12.1			
FM (30°-60°)	26629.3	53.4			
FH (60°-80°)	8021.6	16.1			G4/12000
FVH (80°-90°)	168.6	0.3			G2/225
BL (0°-30°)	2713.6	5.4	B4/5000		
BM (30°-60°)	4219.7	8.5	B3/5000		
BH (60°-80°)	1864.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	230.4	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1
2.5°	14343.7	14333.4	14390.1	14196.7	14065.1	13887.2	13652.5	13353.3	13030.8	12690.4
5°	15636.0	15545.7	15605.0	15460.6	15316.1	15047.9	14699.7	14212.2	13616.3	12938.0
7.5°	15432.2	15370.3	15522.5	15651.4	15759.8	15726.2	15470.9	14960.2	14191.5	13206.2
10°	13789.2	13719.5	13933.6	14379.8	15035.0	15605.0	15914.5	15597.3	14779.6	13500.3
12.5°	12339.6	12306.0	12447.9	12809.0	13536.4	14630.0	15857.8	16154.4	15390.9	13848.5
15°	11720.5	11679.3	11769.5	11952.7	12416.9	13435.8	15341.9	16536.2	15991.9	14250.9
17.5°	11583.8	11537.4	11576.1	11671.5	11970.7	12747.1	14563.0	16724.4	16618.7	14699.7
20°	11836.6	11797.9	11803.1	11797.9	12006.8	12623.3	14021.3	16652.2	17165.5	15112.4
22.5°	12447.9	12383.4	12386.0	12249.3	12362.8	12840.0	13879.4	16458.8	17653.0	15473.5
25°	13443.5	13327.5	13350.7	13002.5	12971.5	13324.9	14101.3	16309.2	18137.9	15762.4
27.5°	14805.4	14673.9	14604.2	14085.8	13838.2	14013.6	14552.6	16360.8	18597.1	16012.6
30°	16507.8	16347.9	16206.0	15470.9	15022.1	14957.6	15254.2	16701.2	19138.7	16275.6
32.5°	18594.5	18408.8	18150.8	17175.8	16543.9	16206.0	16162.2	17307.4	19773.2	16611.0
35°	21078.4	20835.9	20469.7	19208.4	18408.8	17717.5	17359.0	18181.8	20642.5	17116.5
37.5°	23637.1	23363.7	23028.4	21527.2	20544.5	19525.6	18818.9	19368.3	21800.6	17802.6
40°	25997.2	25690.2	25378.1	24042.0	22987.1	21759.3	20606.4	20869.5	23216.7	18622.8
42.5°	27390.0	27163.0	27044.4	26322.2	25507.1	24261.3	22829.8	22649.2	24808.1	19566.9
45°	27328.1	27235.3	27601.5	27900.7	27707.3	27016.0	25434.9	24617.2	26404.7	20384.5
47.5°	25868.2	25930.1	26747.8	28429.5	29169.8	29530.9	28401.1	26549.2	27792.4	20995.8
50°	21896.0	21947.6	23840.9	27467.4	29546.4	31581.5	31344.2	28434.7	28868.0	21369.8
52.5°	18751.8	18785.3	19597.8	24614.7	28303.1	32613.2	33995.7	30211.8	29654.7	21473.0
55°	14124.5	14240.5	15151.1	19311.5	25068.6	31795.5	35610.4	32043.2	30152.5	21483.3
57.5°	8251.3	8377.7	9502.3	13108.2	19484.3	28945.4	35855.4	33668.1	30490.4	21400.8
60°	4041.8	4096.0	4586.1	6889.4	12014.6	23454.0	33884.8	34454.8	30678.7	21356.9
62.5°	2723.8	2716.0	2736.7	3399.6	5919.6	15068.5	29778.5	33077.5	30578.1	21189.3
65°	2342.0	2313.7	2236.3	2385.9	3066.8	6892.0	23007.7	28966.0	29812.0	20768.9
67.5°	2024.8	2027.4	2029.9	1983.5	2189.9	3180.3	14060.0	22816.9	27062.4	18777.6
70°	1676.6	1699.8	1710.1	1710.1	1784.9	2086.7	6002.1	15638.5	21346.6	14722.9
72.5°	1527.0	1478.0	1483.1	1457.3	1457.3	1588.9	2416.8	8865.2	13448.7	8282.3
75°	1245.8	1276.8	1281.9	1263.9	1204.6	1212.3	1434.1	3719.4	5754.5	3435.7
77.5°	1075.6	1075.6	1085.9	1073.0	1026.6	907.9	956.9	1441.9	1957.7	1408.3
80°	864.1	861.5	905.3	931.1	858.9	670.6	611.3	797.0	869.2	619.0
82.5°	420.4	446.2	621.6	709.3	652.6	484.9	374.0	495.2	464.3	273.4
85°	245.0	232.1	278.6	394.6	374.0	268.3	180.6	257.9	242.5	139.3
87.5°	77.4	72.2	56.7	134.1	108.3	74.8	49.0	74.8	67.1	31.0
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
12502.1	0°	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1	12502.1
12543.3	2.5°	12360.2	12055.8	11754.1	11478.1	11310.4	11202.1	11093.7	10972.5	10926.1	10856.4
12576.9	5°	12236.4	11648.3	11124.7	10673.3	10263.2	9940.8	9615.8	9352.7	9234.0	9314.0
12682.6	7.5°	12164.2	11313.0	10505.7	9677.7	8880.7	8243.6	7689.0	7299.5	7124.1	7168.0
12785.8	10°	12099.7	10933.8	9703.5	8395.8	7250.5	6461.3	5893.8	5597.2	5486.3	5509.5
12925.1	12.5°	12040.4	10508.2	8736.2	7015.8	5798.4	5277.3	5114.8	5117.4	5138.0	5153.5
13146.9	15°	12030.0	9994.9	7655.5	5808.7	5014.2	4980.7	5156.1	5267.0	5326.3	5344.4
13332.6	17.5°	12014.6	9381.1	6554.1	4985.9	4823.4	5050.4	5212.8	5285.1	5331.5	5334.1
13513.2	20°	11952.7	8602.1	5537.8	4593.8	4782.1	4978.1	5078.7	5135.5	5174.2	5187.1
13649.9	22.5°	11761.8	7735.4	4746.0	4418.4	4617.0	4774.4	4893.0	4957.5	4980.7	4996.2
13675.7	25°	11418.7	6765.6	4199.2	4250.8	4387.5	4586.1	4681.5	4694.4	4686.7	4709.9
13611.2	27.5°	10969.9	5726.1	3858.7	4023.8	4199.2	4369.4	4421.0	4413.3	4397.8	4423.6
13500.3	30°	10428.3	4792.4	3642.0	3768.4	4008.3	4163.1	4209.5	4191.4	4160.5	4188.9
13443.5	32.5°	9855.7	4028.9	3464.1	3590.4	3851.0	4003.1	4049.6	4031.5	4008.3	4031.5
13508.0	35°	9321.7	3495.0	3299.0	3471.8	3727.1	3876.8	3936.1	3938.7	3938.7	3967.0
13678.2	37.5°	8831.7	3182.9	3162.3	3397.0	3642.0	3776.2	3861.3	3866.4	3755.5	3763.3
13967.1	40°	8377.7	3051.4	3100.4	3348.0	3559.5	3688.5	3693.6	3404.7	3201.0	3195.8
14297.3	42.5°	8006.3	3025.6	3118.4	3342.8	3500.2	3505.3	3141.6	2917.2	2860.5	2863.1
14601.7	45°	7658.1	3017.8	3159.7	3342.8	3412.5	3028.1	2783.1	2723.8	2728.9	2749.6
14738.4	47.5°	7268.6	2986.9	3167.4	3296.4	3159.7	2692.8	2620.6	2594.8	2584.5	2589.7
14707.4	50°	6843.0	2876.0	3069.4	3203.5	2726.4	2548.4	2458.1	2450.4	2463.3	2471.0
14534.6	52.5°	6394.2	2695.4	2901.8	3035.9	2527.8	2422.0	2321.4	2339.5	2396.2	2414.3
14354.0	55°	6100.1	2483.9	2679.9	2700.6	2388.5	2303.4	2218.2	2259.5	2365.3	2398.8
14245.7	57.5°	6022.8	2259.5	2427.2	2403.9	2210.5	2200.2	2148.6	2184.7	2318.8	2367.8
14240.5	60°	5999.5	2058.3	2179.5	2161.5	2037.7	2086.7	2073.8	2091.8	2138.3	2153.8
14189.0	62.5°	5819.0	1898.4	1957.7	1931.9	1882.9	1968.0	1999.0	1960.3	1996.4	2014.5
13835.6	65°	5359.9	1769.4	1741.1	1723.0	1743.6	1821.0	1882.9	1805.5	1839.1	1890.7
12473.7	67.5°	4601.5	1594.0	1516.7	1537.3	1601.8	1643.0	1723.0	1635.3	1663.7	1751.4
10046.5	70°	3722.0	1372.2	1302.6	1361.9	1423.8	1508.9	1521.8	1462.5	1529.5	1627.6
6131.1	72.5°	2633.5	1147.8	1098.8	1220.0	1240.7	1351.6	1323.2	1294.8	1387.7	1421.2
3030.7	75°	1826.2	926.0	897.6	990.5	1065.3	1160.7	1140.1	1173.6	1369.6	1385.1
1514.1	77.5°	1155.5	719.6	701.6	760.9	864.1	969.8	1003.4	1385.1	2339.5	2432.3
786.7	80°	670.6	536.5	515.9	562.3	652.6	750.6	967.3	1699.8	1542.4	1524.4
353.4	82.5°	374.0	368.8	343.1	355.9	435.9	541.7	1367.1	1196.8	972.4	1003.4
141.9	85°	175.4	216.7	185.7	178.0	245.0	634.5	913.1	683.5	454.0	443.6
31.0	87.5°	46.4	41.3	41.3	46.4	103.2	546.8	363.7	291.5	172.8	167.7
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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