

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: P956677

Luminaire Tested: **GALN-SB9B-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956677
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-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52163 lumens
Efficiency: N/A
Efficacy: 158.3 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

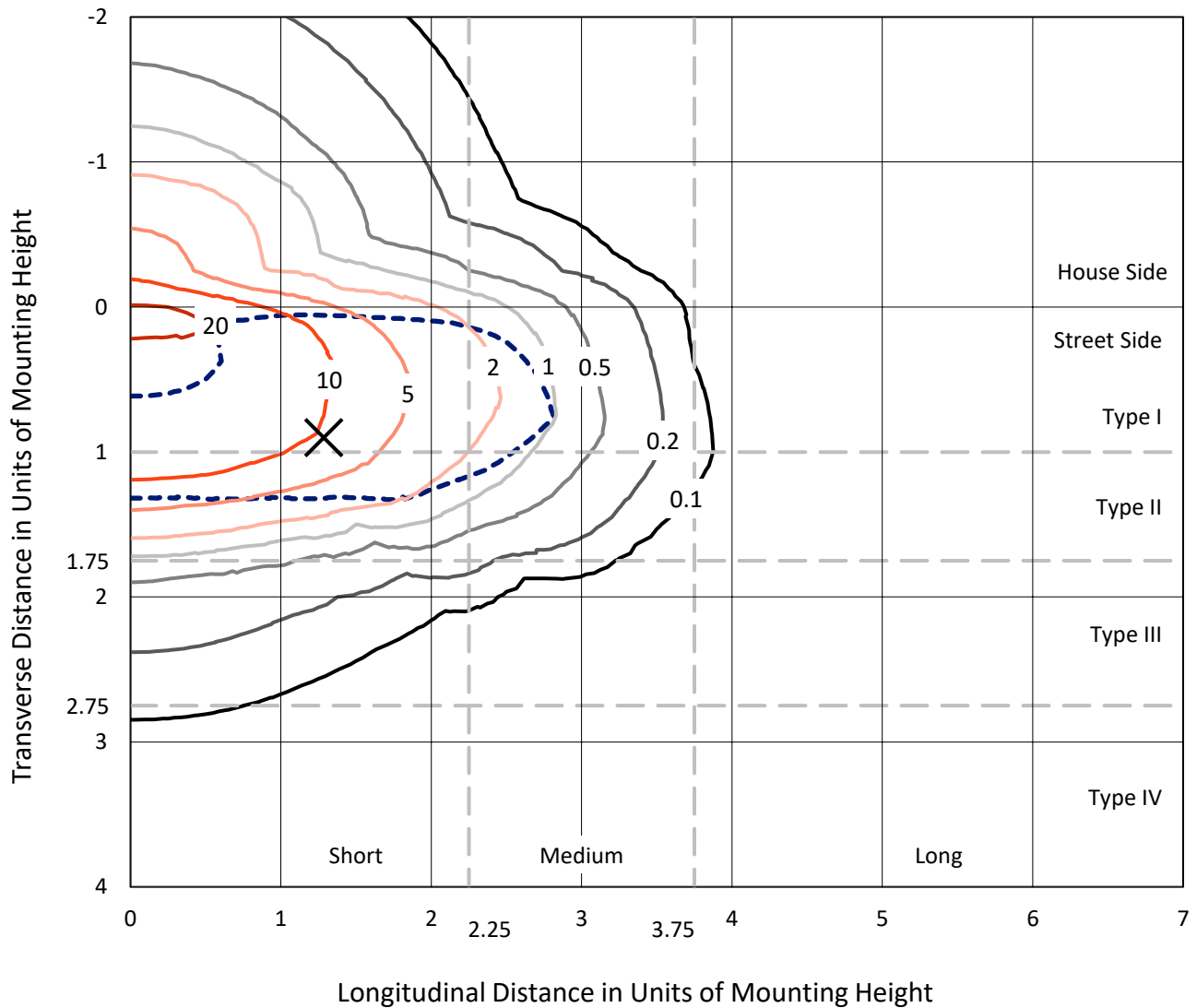
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

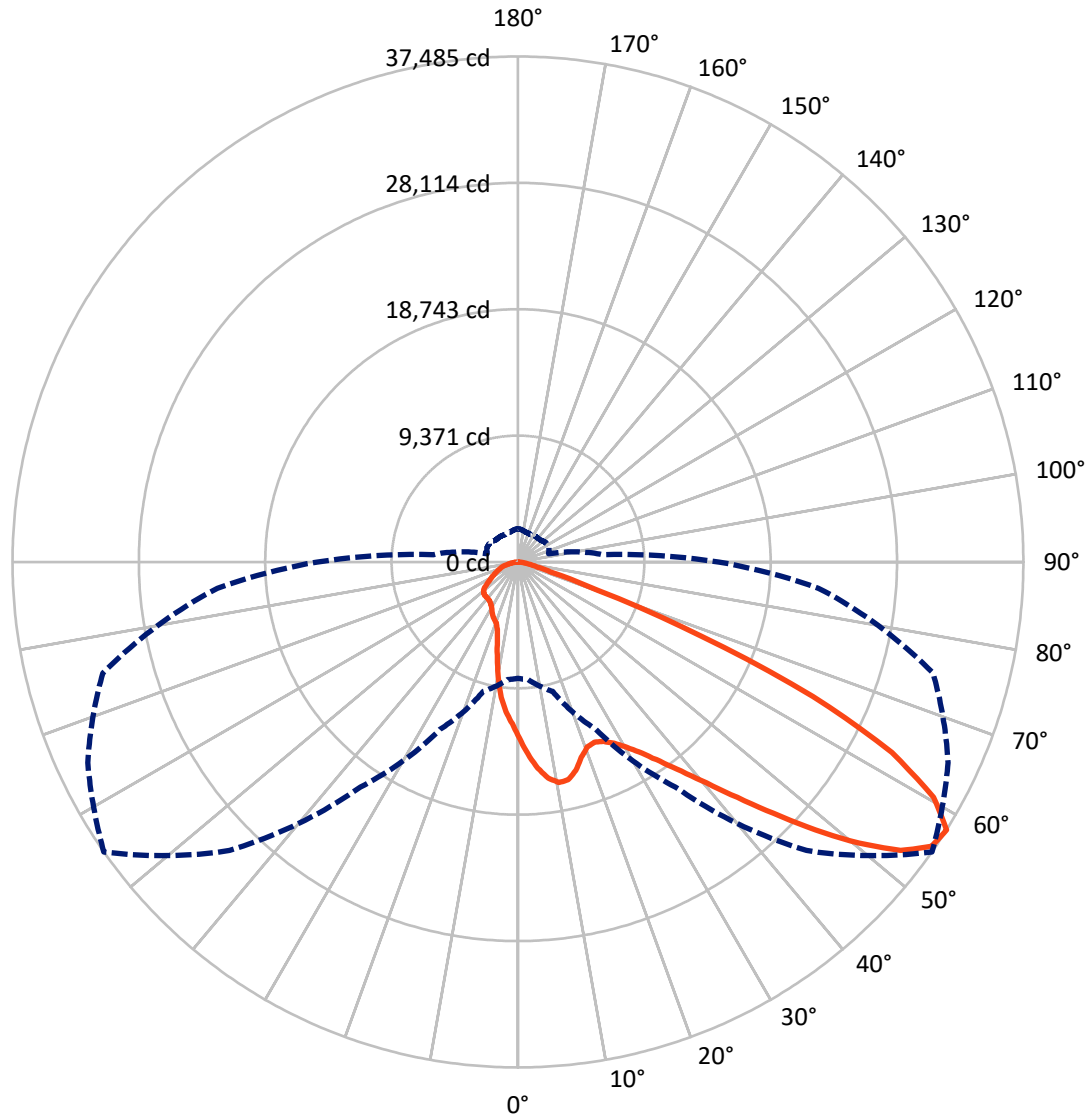
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 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	9438.6	0.0	9438.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	42724.4	0.0	42724.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	52163.0	0.0	52163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.8	2.3
10°-20°	3061.3	5.9
20°-30°	4885.0	9.4
30°-40°	7734.1	14.8
40°-50°	11837.8	22.7
50°-60°	12679.4	24.3
60°-70°	7976.7	15.3
70°-80°	2358.9	4.5
80°-90°	417.1	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°	52163.0	100.0
0°-180°	52163.0	100.0

Coefficient of Utilization



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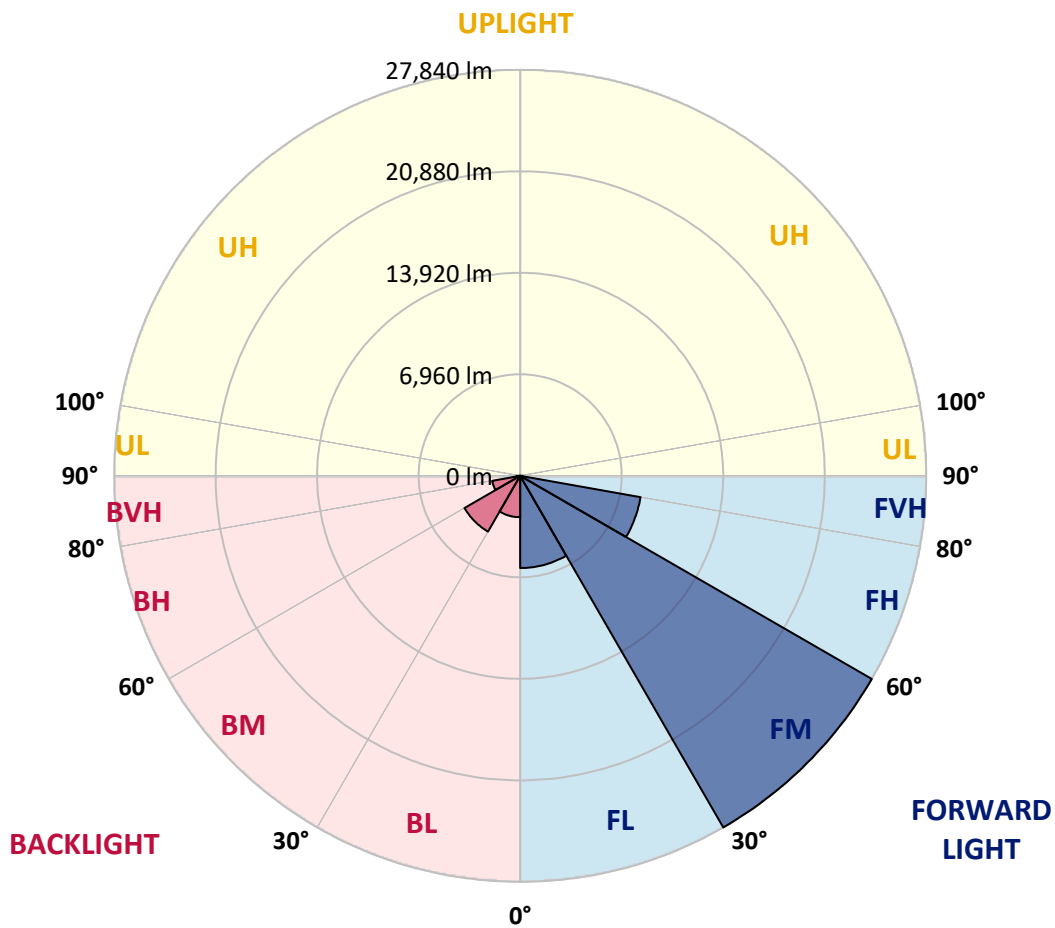
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6322.2	12.1			
FM (30°-60°)	27839.8	53.4			
FH (60°-80°)	8386.2	16.1			G4/12000
FVH (80°-90°)	176.2	0.3			G2/225
BL (0°-30°)	2836.9	5.4	B4/5000		
BM (30°-60°)	4411.5	8.5	B3/5000		
BH (60°-80°)	1949.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	240.9	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°	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4
2.5°	14995.7	14984.9	15044.3	14842.0	14704.5	14518.4	14273.0	13960.2	13623.2	13267.2
5°	16346.7	16252.3	16314.3	16163.3	16012.3	15731.9	15367.8	14858.2	14235.3	13526.1
7.5°	16133.7	16069.0	16228.1	16362.9	16476.1	16441.1	16174.1	15640.2	14836.6	13806.5
10°	14416.0	14343.1	14567.0	15033.5	15718.4	16314.3	16637.9	16306.3	15451.4	14113.9
12.5°	12900.5	12865.4	13013.7	13391.2	14151.7	15295.0	16578.6	16888.7	16090.5	14478.0
15°	12253.3	12210.1	12304.5	12496.0	12981.4	14046.5	16039.3	17287.8	16718.8	14898.6
17.5°	12110.4	12061.8	12102.3	12202.1	12514.9	13326.5	15224.9	17484.7	17374.1	15367.8
20°	12374.6	12334.2	12339.6	12334.2	12552.6	13197.1	14658.6	17409.2	17945.8	15799.3
22.5°	13013.7	12946.3	12949.0	12806.1	12924.7	13423.6	14510.3	17206.9	18455.4	16176.8
25°	14054.6	13933.3	13957.5	13593.5	13561.1	13930.6	14742.2	17050.5	18962.4	16478.8
27.5°	15478.4	15340.9	15268.1	14726.1	14467.2	14650.6	15214.1	17104.4	19442.4	16740.4
30°	17258.2	17091.0	16942.7	16174.1	15704.9	15637.5	15947.6	17460.4	20008.7	17015.5
32.5°	19439.7	19245.5	18975.9	17956.6	17295.9	16942.7	16896.8	18094.1	20672.0	17366.0
35°	22036.5	21783.0	21400.1	20081.5	19245.5	18522.9	18148.0	19008.2	21580.8	17894.5
37.5°	24711.5	24425.7	24075.1	22505.7	21478.3	20413.2	19674.3	20248.7	22791.5	18611.8
40°	27178.9	26858.0	26531.7	25134.9	24032.0	22748.4	21543.0	21818.1	24272.0	19469.4
42.5°	28635.1	28397.8	28273.7	27518.7	26666.5	25364.1	23867.5	23678.7	25935.8	20456.3
45°	28570.3	28473.3	28856.2	29169.0	28966.7	28244.0	26591.0	25736.2	27605.0	21311.1
47.5°	27044.1	27108.8	27963.6	29721.8	30495.7	30873.2	29692.1	27756.0	29055.7	21950.2
50°	22891.3	22945.3	24924.5	28715.9	30889.4	33017.0	32768.9	29727.2	30180.2	22341.2
52.5°	19604.2	19639.2	20488.7	25733.5	29589.6	34095.6	35541.0	31585.1	31002.7	22449.1
55°	14766.5	14887.9	15839.7	20189.3	26208.1	33240.8	37229.1	33499.7	31523.1	22459.9
57.5°	8626.4	8758.5	9934.2	13704.1	20370.0	30261.1	37485.2	35198.5	31876.3	22373.6
60°	4225.6	4282.2	4794.5	7202.6	12560.7	24520.1	35425.1	36021.0	32073.2	22327.7
62.5°	2847.6	2839.5	2861.1	3554.1	6188.7	15753.5	31132.1	34581.0	31968.0	22152.5
65°	2448.5	2418.8	2337.9	2494.3	3206.2	7205.3	24053.6	30282.7	31167.1	21712.9
67.5°	2116.8	2119.5	2122.2	2073.7	2289.4	3324.9	14699.1	23854.0	28292.6	19631.1
70°	1752.8	1777.1	1787.8	1787.8	1866.0	2181.5	6275.0	16349.4	22316.9	15392.1
72.5°	1596.4	1545.1	1550.5	1523.6	1523.6	1661.1	2526.7	9268.2	14060.0	8658.7
75°	1302.5	1334.8	1340.2	1321.3	1259.3	1267.4	1499.3	3888.5	6016.1	3591.9
77.5°	1124.5	1124.5	1135.3	1121.8	1073.2	949.2	1000.4	1507.4	2046.7	1472.3
80°	903.4	900.7	946.5	973.5	898.0	701.1	639.1	833.2	908.7	647.2
82.5°	439.5	466.5	649.9	741.6	682.2	507.0	391.0	517.7	485.4	285.8
85°	256.2	242.7	291.2	412.6	391.0	280.4	188.8	269.7	253.5	145.6
87.5°	80.9	75.5	59.3	140.2	113.3	78.2	51.2	78.2	70.1	32.4
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°
13070.4	0°	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4	13070.4
13113.5	2.5°	12922.0	12603.8	12288.3	11999.8	11824.5	11711.3	11598.0	11471.3	11422.7	11349.9
13148.6	5°	12792.6	12177.8	11630.4	11158.5	10729.7	10392.6	10052.9	9777.8	9653.8	9737.4
13259.1	7.5°	12717.1	11827.2	10983.2	10117.6	9284.3	8618.3	8038.5	7631.3	7448.0	7493.8
13367.0	10°	12649.7	11430.8	10144.6	8777.4	7580.1	6754.9	6161.7	5851.6	5735.6	5759.9
13512.6	12.5°	12587.7	10985.9	9133.3	7334.7	6061.9	5517.2	5347.3	5350.0	5371.6	5387.8
13744.5	15°	12576.9	10449.3	8003.5	6072.7	5242.2	5207.1	5390.5	5506.4	5568.5	5587.3
13938.7	17.5°	12560.7	9807.5	6852.0	5212.5	5042.6	5279.9	5449.8	5525.3	5573.8	5576.5
14127.4	20°	12496.0	8993.1	5789.6	4802.6	4999.5	5204.4	5309.6	5368.9	5409.4	5422.8
14270.3	22.5°	12296.4	8087.1	4961.7	4619.3	4826.9	4991.4	5115.4	5182.8	5207.1	5223.3
14297.3	25°	11937.8	7073.1	4390.0	4444.0	4586.9	4794.5	4894.3	4907.8	4899.7	4924.0
14229.9	27.5°	11468.6	5986.4	4034.1	4206.7	4390.0	4568.0	4621.9	4613.9	4597.7	4624.6
14113.9	30°	10902.3	5010.3	3807.6	3939.7	4190.5	4352.3	4400.8	4382.0	4349.6	4379.3
14054.6	32.5°	10303.7	4212.1	3621.5	3753.6	4026.0	4185.1	4233.6	4214.8	4190.5	4214.8
14122.0	35°	9745.5	3653.9	3448.9	3629.6	3896.6	4053.0	4115.0	4117.7	4117.7	4147.3
14300.0	37.5°	9233.1	3327.6	3306.0	3551.4	3807.6	3947.8	4036.8	4042.2	3926.2	3934.3
14602.0	40°	8758.5	3190.1	3241.3	3500.2	3721.3	3856.1	3861.5	3559.5	3346.5	3341.1
14947.2	42.5°	8370.2	3163.1	3260.2	3494.8	3659.3	3664.7	3284.4	3049.8	2990.5	2993.2
15265.4	45°	8006.2	3155.0	3303.3	3494.8	3567.6	3165.8	2909.6	2847.6	2853.0	2874.6
15408.3	47.5°	7599.0	3122.6	3311.4	3446.2	3303.3	2815.2	2739.7	2712.8	2702.0	2707.4
15375.9	50°	7154.0	3006.7	3208.9	3349.2	2850.3	2664.2	2569.8	2561.8	2575.2	2583.3
15195.3	52.5°	6684.8	2817.9	3033.7	3173.9	2642.7	2532.1	2426.9	2445.8	2505.1	2524.0
15006.5	55°	6377.4	2596.8	2801.8	2823.3	2497.0	2408.1	2319.1	2362.2	2472.8	2507.8
14893.2	57.5°	6296.5	2362.2	2537.5	2513.2	2311.0	2300.2	2246.3	2284.0	2424.2	2475.5
14887.9	60°	6272.3	2151.9	2278.6	2259.7	2130.3	2181.5	2168.1	2186.9	2235.5	2251.6
14833.9	62.5°	6083.5	1984.7	2046.7	2019.7	1968.5	2057.5	2089.9	2049.4	2087.2	2106.0
14464.5	65°	5603.5	1849.9	1820.2	1801.3	1822.9	1903.8	1968.5	1887.6	1922.7	1976.6
13040.7	67.5°	4810.7	1666.5	1585.6	1607.2	1674.6	1717.7	1801.3	1709.6	1739.3	1831.0
10503.2	70°	3891.2	1434.6	1361.8	1423.8	1488.5	1577.5	1591.0	1529.0	1599.1	1701.5
6409.8	72.5°	2753.2	1200.0	1148.7	1275.5	1297.1	1413.0	1383.3	1353.7	1450.8	1485.8
3168.5	75°	1909.2	968.1	938.4	1035.5	1113.7	1213.5	1191.9	1226.9	1431.9	1448.1
1582.9	77.5°	1208.1	752.3	733.5	795.5	903.4	1013.9	1049.0	1448.1	2445.8	2542.9
822.5	80°	701.1	560.9	539.3	587.9	682.2	784.7	1011.2	1777.1	1612.6	1593.7
369.4	82.5°	391.0	385.6	358.6	372.1	455.7	566.3	1429.2	1251.2	1016.6	1049.0
148.3	85°	183.4	226.5	194.2	186.1	256.2	663.4	954.6	714.6	474.6	463.8
32.4	87.5°	48.5	43.1	43.1	48.5	107.9	571.7	380.2	304.7	180.7	175.3
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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