

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: P954346

Luminaire Tested: **GALN-SB7C-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954346
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-SB7C-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51812 lumens
Efficiency: N/A
Efficacy: 147.8 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

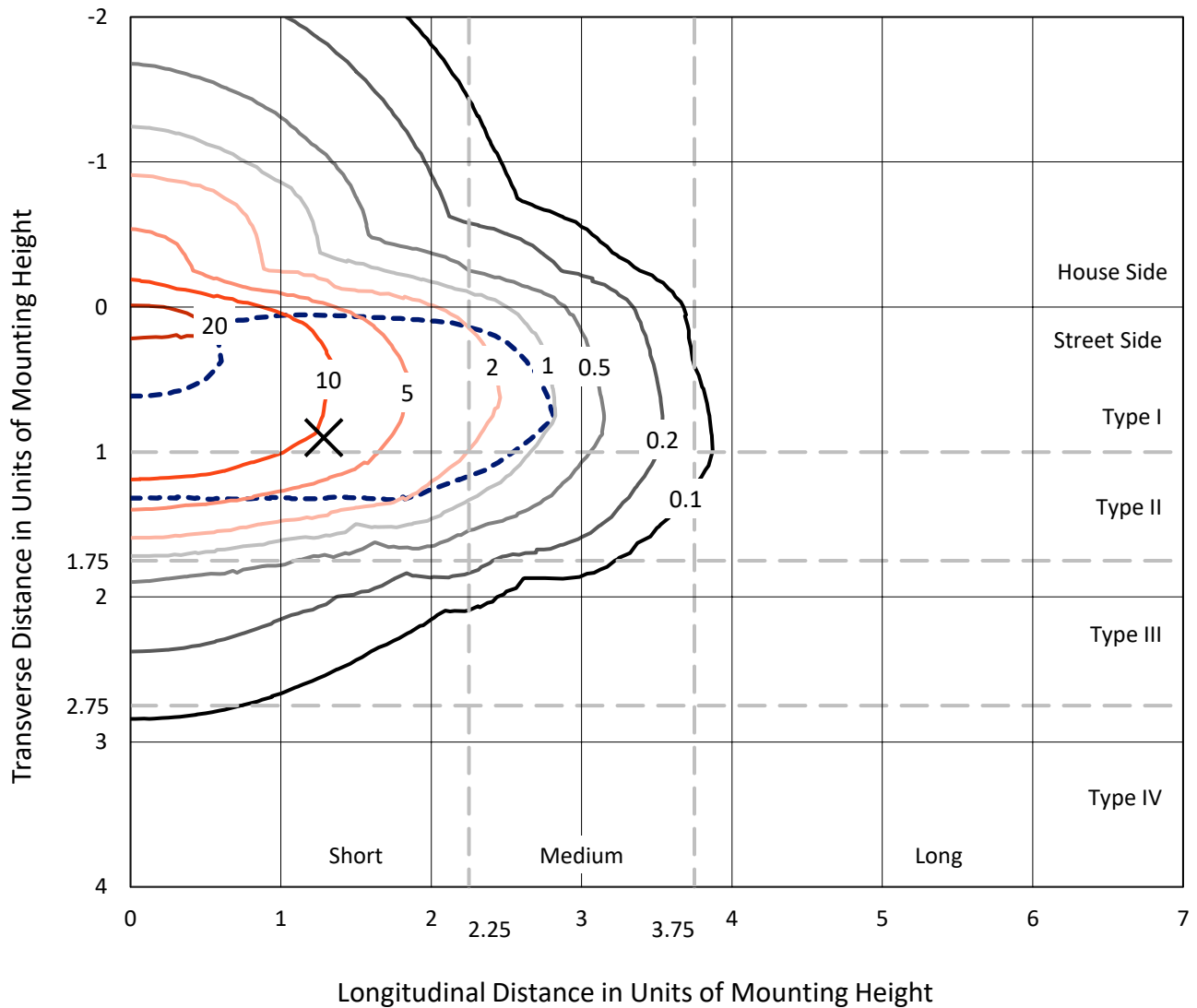
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

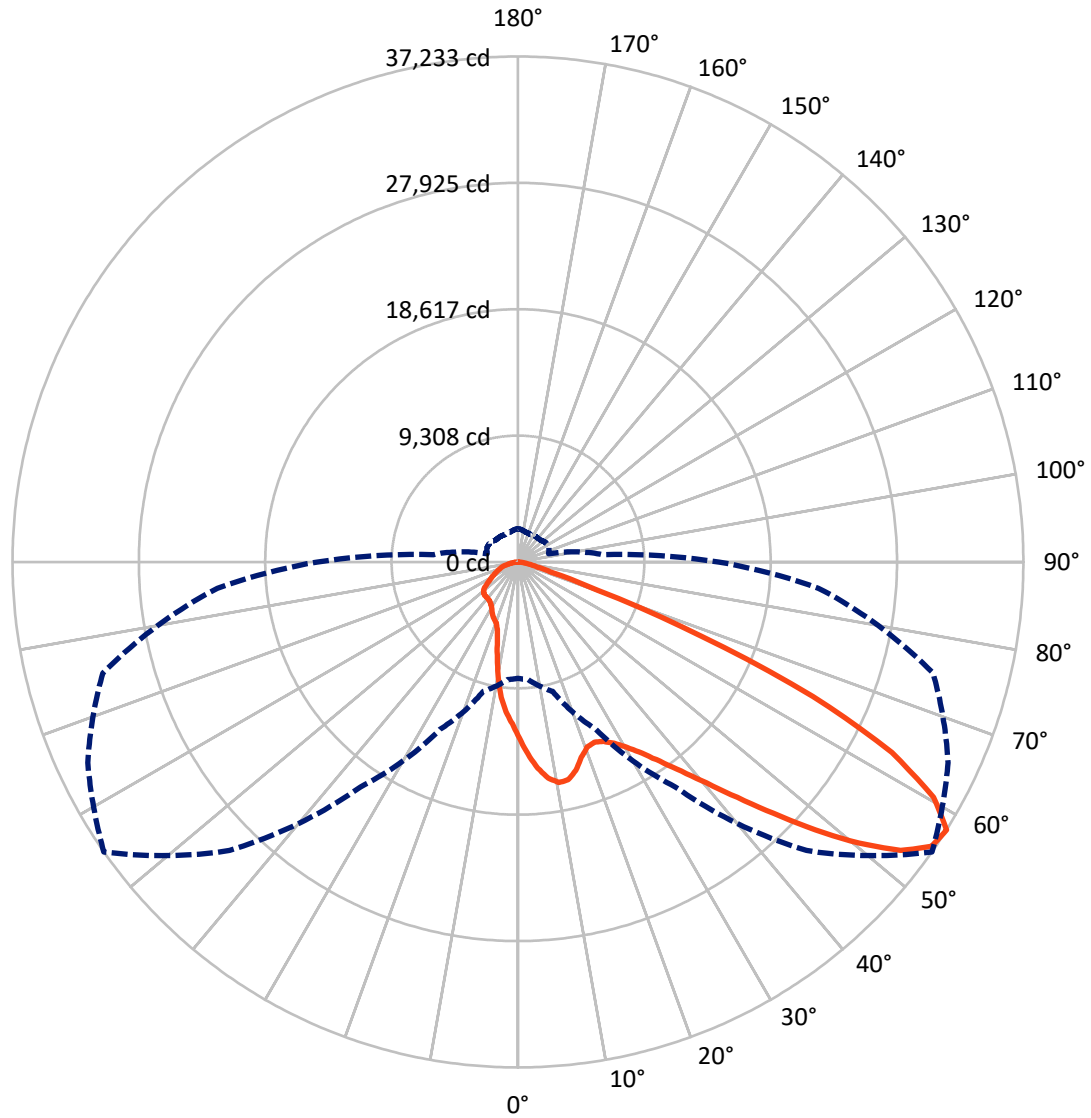
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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	9375.1	0.0	9375.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	42436.9	0.0	42436.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	51812.0	0.0	51812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1204.7	2.3
10°-20°	3040.7	5.9
20°-30°	4852.1	9.4
30°-40°	7682.0	14.8
40°-50°	11758.2	22.7
50°-60°	12594.1	24.3
60°-70°	7923.0	15.3
70°-80°	2343.0	4.5
80°-90°	414.3	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°	51812.0	100.0
0°-180°	51812.0	100.0

Coefficient of Utilization



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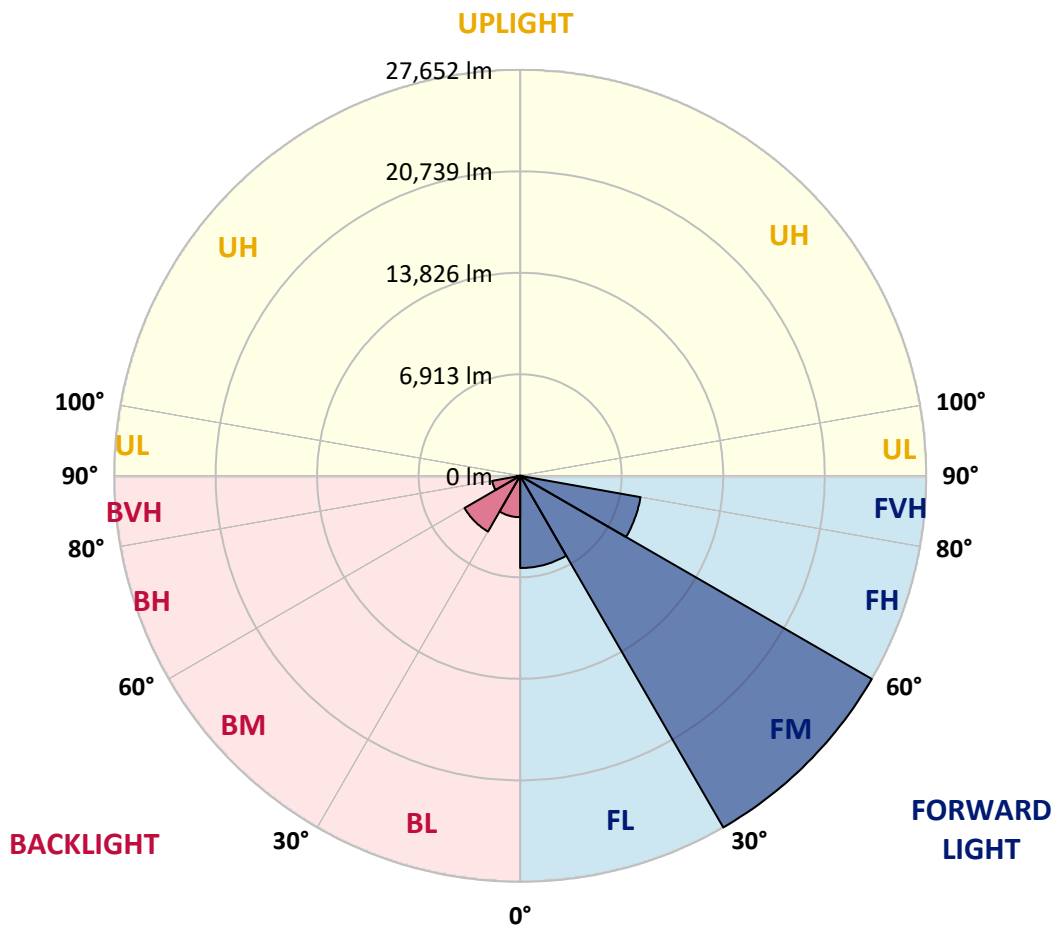
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6279.6	12.1			
FM (30°-60°)	27652.4	53.4			
FH (60°-80°)	8329.8	16.1			G4/12000
FVH (80°-90°)	175.0	0.3			G2/225
BL (0°-30°)	2817.8	5.4	B4/5000		
BM (30°-60°)	4381.8	8.5	B3/5000		
BH (60°-80°)	1936.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	239.2	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°	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4
2.5°	14894.8	14884.1	14943.0	14742.1	14605.5	14420.7	14177.0	13866.3	13531.5	13177.9
5°	16236.7	16143.0	16204.6	16054.6	15904.6	15626.0	15264.4	14758.2	14139.5	13435.1
7.5°	16025.1	15960.8	16118.9	16252.8	16365.3	16330.5	16065.3	15535.0	14736.8	13713.6
10°	14318.9	14246.6	14468.9	14932.3	15612.6	16204.6	16526.0	16196.5	15347.5	14019.0
12.5°	12813.7	12778.8	12926.2	13301.1	14056.5	15192.1	16467.1	16775.1	15982.3	14380.6
15°	12170.8	12128.0	12221.7	12411.9	12894.0	13952.0	15931.4	17171.5	16606.3	14798.4
17.5°	12028.9	11980.7	12020.8	12119.9	12430.6	13236.9	15122.5	17367.0	17257.2	15264.4
20°	12291.4	12251.2	12256.5	12251.2	12468.1	13108.3	14560.0	17292.0	17825.0	15693.0
22.5°	12926.2	12859.2	12861.9	12719.9	12837.8	13333.3	14412.7	17091.1	18331.3	16068.0
25°	13960.0	13839.5	13863.6	13502.0	13469.9	13836.8	14643.0	16935.8	18834.8	16368.0
27.5°	15374.3	15237.7	15165.3	14627.0	14369.8	14552.0	15111.8	16989.4	19311.6	16627.8
30°	17142.0	16976.0	16828.6	16065.3	15599.2	15532.3	15840.3	17342.9	19874.0	16901.0
32.5°	19308.9	19116.0	18848.2	17835.7	17179.5	16828.6	16783.1	17972.3	20532.9	17249.2
35°	21888.2	21636.4	21256.1	19946.4	19116.0	18398.2	18025.9	18880.3	21435.6	17774.1
37.5°	24545.2	24261.3	23913.1	22354.3	21333.8	20275.8	19541.9	20112.4	22638.2	18486.6
40°	26996.0	26677.3	26353.2	24965.8	23870.3	22595.3	21398.1	21671.3	24108.7	19338.3
42.5°	28442.4	28206.7	28083.5	27333.5	26487.1	25193.4	23706.9	23519.4	25761.2	20318.7
45°	28378.1	28281.7	28662.0	28972.7	28771.8	28054.0	26412.1	25563.0	27419.2	21167.7
47.5°	26862.1	26926.4	27775.4	29521.8	30290.5	30665.5	29492.3	27569.2	28860.2	21802.5
50°	22737.3	22790.9	24756.8	28522.7	30681.5	32794.8	32548.4	29527.1	29977.1	22190.9
52.5°	19472.3	19507.1	20350.8	25560.4	29390.5	33866.2	35301.9	31372.6	30794.0	22298.0
55°	14667.1	14787.7	15733.2	20053.5	26031.8	33017.1	36978.6	33274.3	31311.0	22308.7
57.5°	8568.3	8699.6	9867.4	13611.8	20232.9	30057.5	37233.0	34961.7	31661.9	22223.0
60°	4197.1	4253.4	4762.3	7154.1	12476.2	24355.1	35186.7	35778.6	31857.4	22177.5
62.5°	2828.4	2820.4	2841.8	3530.2	6147.0	15647.5	30922.6	34348.3	31752.9	22003.4
65°	2432.0	2402.6	2322.2	2477.6	3184.7	7156.8	23891.7	30078.9	30957.4	21566.8
67.5°	2102.6	2105.3	2107.9	2059.7	2274.0	3302.5	14600.2	23693.5	28102.2	19499.1
70°	1741.0	1765.1	1775.8	1775.8	1853.5	2166.9	6232.7	16239.4	22166.8	15288.5
72.5°	1585.6	1534.7	1540.1	1513.3	1513.3	1649.9	2509.7	9205.8	13965.4	8600.5
75°	1293.7	1325.8	1331.2	1312.4	1250.8	1258.9	1489.2	3862.3	5975.6	3567.7
77.5°	1116.9	1116.9	1127.6	1114.2	1066.0	942.8	993.7	1497.2	2032.9	1462.4
80°	897.3	894.6	940.1	966.9	891.9	696.4	634.8	827.6	902.6	642.8
82.5°	436.6	463.4	645.5	736.6	677.6	503.5	388.4	514.3	482.1	283.9
85°	254.5	241.1	289.3	409.8	388.4	278.6	187.5	267.8	251.8	144.6
87.5°	80.4	75.0	58.9	139.3	112.5	77.7	50.9	77.7	69.6	32.1
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°
12982.4	0°	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4	12982.4
13025.3	2.5°	12835.1	12519.0	12205.7	11919.1	11745.0	11632.5	11520.0	11394.1	11345.9	11273.6
13060.1	5°	12706.5	12095.8	11552.1	11083.4	10657.5	10322.7	9985.2	9712.0	9588.8	9671.9
13169.9	7.5°	12631.5	11747.6	10909.3	10049.5	9221.9	8560.3	7984.4	7580.0	7397.9	7443.4
13277.0	10°	12564.6	11353.9	10076.3	8718.3	7529.1	6709.5	6120.2	5812.2	5697.0	5721.2
13421.7	12.5°	12503.0	10912.0	9071.9	7285.4	6021.1	5480.1	5311.3	5314.0	5335.5	5351.5
13652.0	15°	12492.3	10379.0	7949.6	6031.9	5206.9	5172.1	5354.2	5469.4	5531.0	5549.7
13844.9	17.5°	12476.2	9741.5	6805.9	5177.4	5008.7	5244.4	5413.1	5488.1	5536.3	5539.0
14032.4	20°	12411.9	8932.6	5750.6	4770.3	4965.8	5169.4	5273.9	5332.8	5373.0	5386.3
14174.3	22.5°	12213.7	8032.6	4928.3	4588.2	4794.4	4957.8	5081.0	5148.0	5172.1	5188.1
14201.1	25°	11857.5	7025.6	4360.5	4414.1	4556.0	4762.3	4861.4	4874.8	4866.7	4890.8
14134.1	27.5°	11391.4	5946.1	4006.9	4178.4	4360.5	4537.3	4590.8	4582.8	4566.7	4593.5
14019.0	30°	10828.9	4976.5	3782.0	3913.2	4162.3	4323.0	4371.2	4352.5	4320.3	4349.8
13960.0	32.5°	10234.3	4183.7	3597.1	3728.4	3998.9	4156.9	4205.2	4186.4	4162.3	4186.4
14027.0	35°	9679.9	3629.3	3425.7	3605.2	3870.3	4025.7	4087.3	4090.0	4090.0	4119.4
14203.8	37.5°	9171.0	3305.2	3283.8	3527.5	3782.0	3921.2	4009.6	4015.0	3899.8	3907.8
14503.8	40°	8699.6	3168.6	3219.5	3476.6	3696.2	3830.2	3835.5	3535.5	3323.9	3318.6
14846.6	42.5°	8313.9	3141.8	3238.2	3471.3	3634.6	3640.0	3262.3	3029.3	2970.4	2973.1
15162.7	45°	7952.3	3133.8	3281.1	3471.3	3543.6	3144.5	2890.0	2828.4	2833.8	2855.2
15304.6	47.5°	7547.8	3101.6	3289.1	3423.0	3281.1	2796.3	2721.3	2694.5	2683.8	2689.2
15272.5	50°	7105.9	2986.5	3187.3	3326.6	2831.1	2646.3	2552.6	2544.5	2557.9	2565.9
15093.0	52.5°	6639.9	2799.0	3013.2	3152.5	2624.9	2515.1	2410.6	2429.3	2488.3	2507.0
14905.5	55°	6334.5	2579.3	2782.9	2804.3	2480.2	2391.8	2303.5	2346.3	2456.1	2491.0
14793.0	57.5°	6254.2	2346.3	2520.4	2496.3	2295.4	2284.7	2231.1	2268.6	2407.9	2458.8
14787.7	60°	6230.1	2137.4	2263.3	2244.5	2116.0	2166.9	2153.5	2172.2	2220.4	2236.5
14734.1	62.5°	6042.6	1971.3	2032.9	2006.2	1955.3	2043.7	2075.8	2035.6	2073.1	2091.9
14367.2	65°	5565.8	1837.4	1807.9	1789.2	1810.6	1891.0	1955.3	1874.9	1909.7	1963.3
12952.9	67.5°	4778.3	1655.3	1574.9	1596.4	1663.3	1706.2	1789.2	1698.1	1727.6	1818.7
10432.5	70°	3865.0	1424.9	1352.6	1414.2	1478.5	1566.9	1580.3	1518.7	1588.3	1690.1
6366.7	72.5°	2734.7	1191.9	1141.0	1266.9	1288.3	1403.5	1374.0	1344.6	1441.0	1475.8
3147.2	75°	1896.3	961.6	932.1	1028.5	1106.2	1205.3	1183.9	1218.7	1422.3	1438.3
1572.2	77.5°	1199.9	747.3	728.5	790.1	897.3	1007.1	1041.9	1438.3	2429.3	2525.8
816.9	80°	696.4	557.1	535.7	583.9	677.6	779.4	1004.4	1765.1	1601.7	1583.0
366.9	82.5°	388.4	383.0	356.2	369.6	452.7	562.5	1419.6	1242.8	1009.8	1041.9
147.3	85°	182.1	225.0	192.8	184.8	254.5	658.9	948.2	709.8	471.4	460.7
32.1	87.5°	48.2	42.9	42.9	48.2	107.1	567.8	377.7	302.7	179.5	174.1
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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