

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: P954262

Luminaire Tested: **GALN-SB7C-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954262
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47102 lumens
Efficiency: N/A
Efficacy: 134.4 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

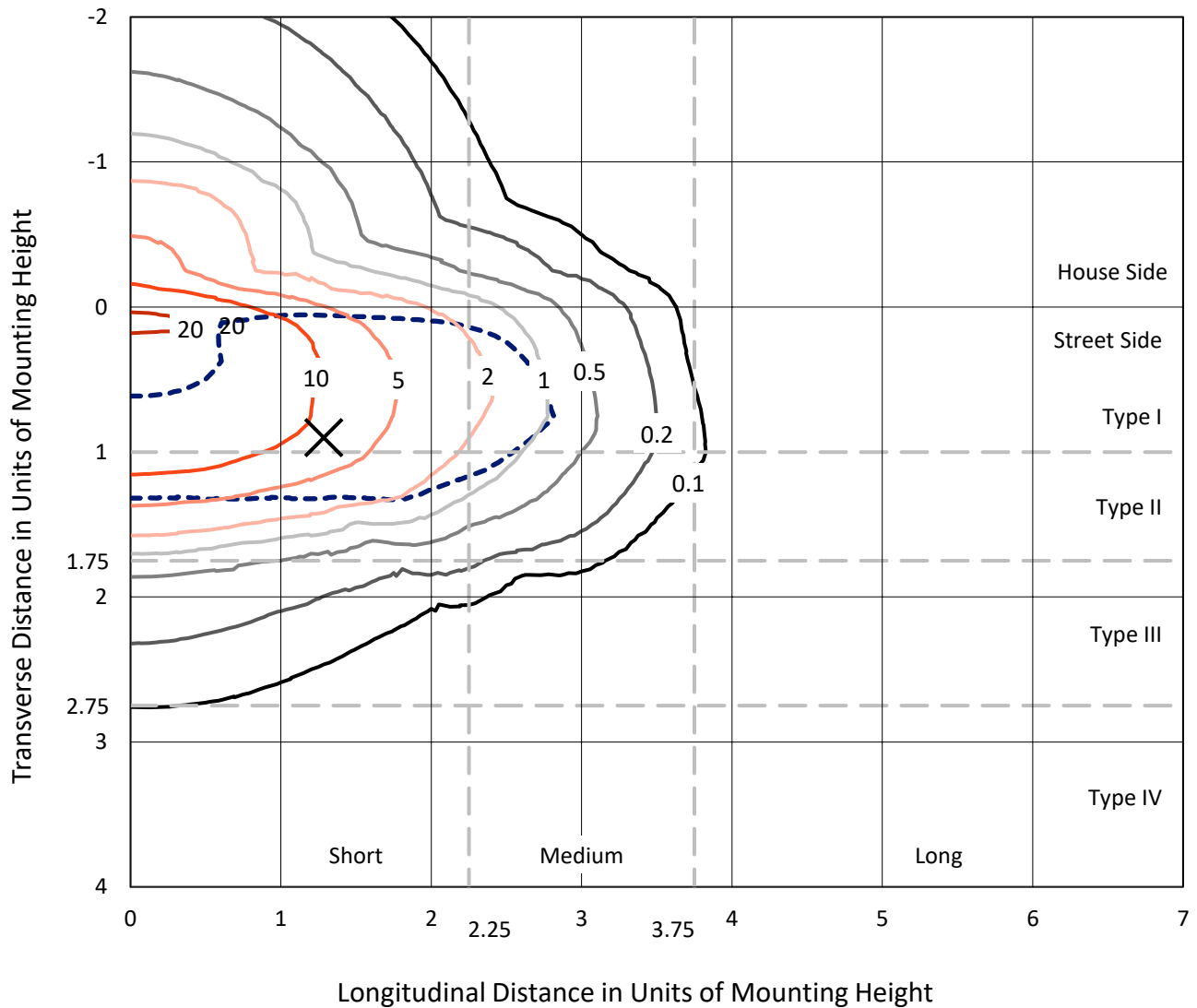
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

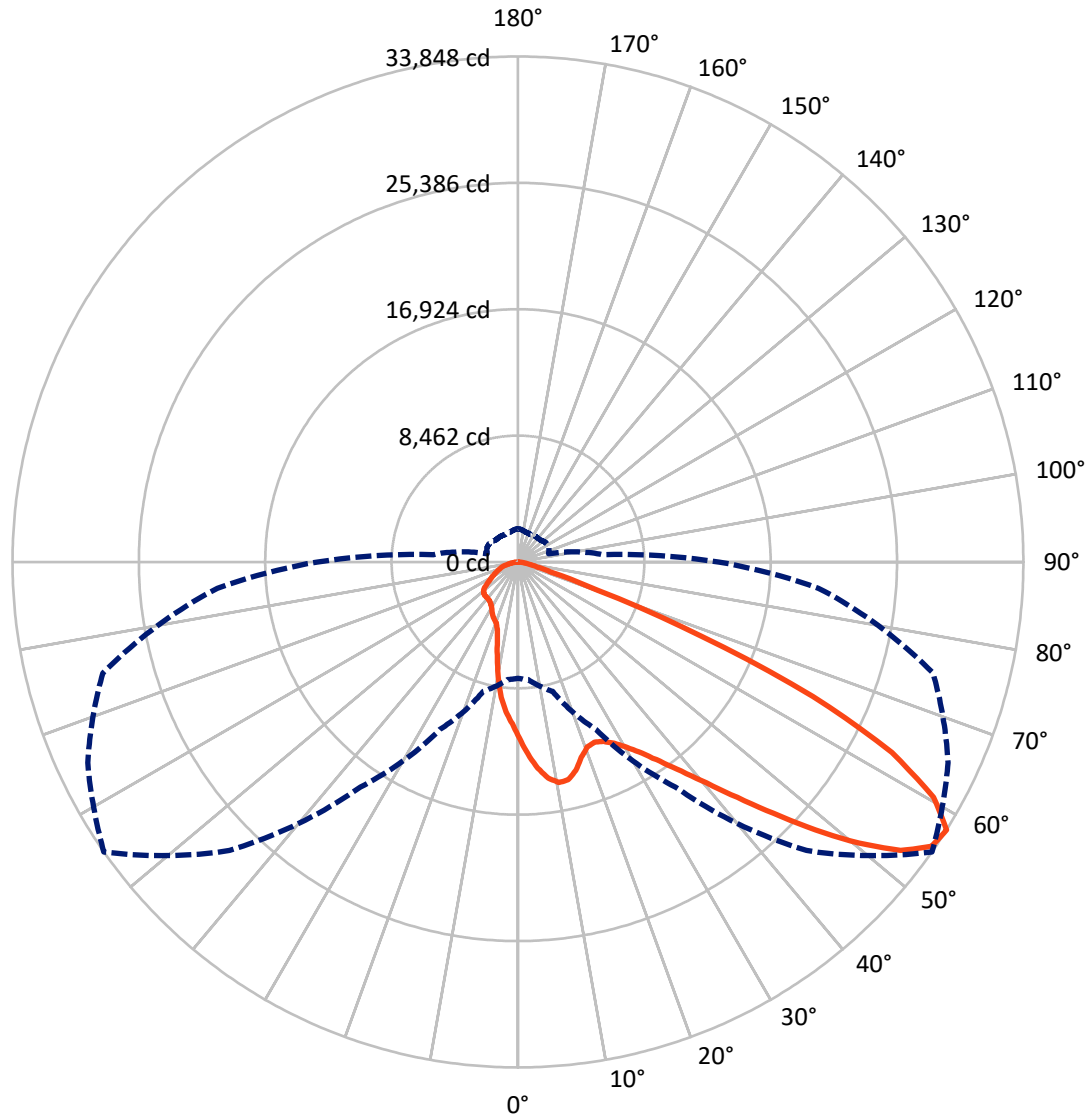
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 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	8522.9	0.0	8522.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	38579.1	0.0	38579.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	47102.0	0.0	47102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1095.2	2.3
10°-20°	2764.3	5.9
20°-30°	4411.0	9.4
30°-40°	6983.7	14.8
40°-50°	10689.3	22.7
50°-60°	11449.2	24.3
60°-70°	7202.8	15.3
70°-80°	2130.0	4.5
80°-90°	376.6	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°	47102.0	100.0
0°-180°	47102.0	100.0

Coefficient of Utilization



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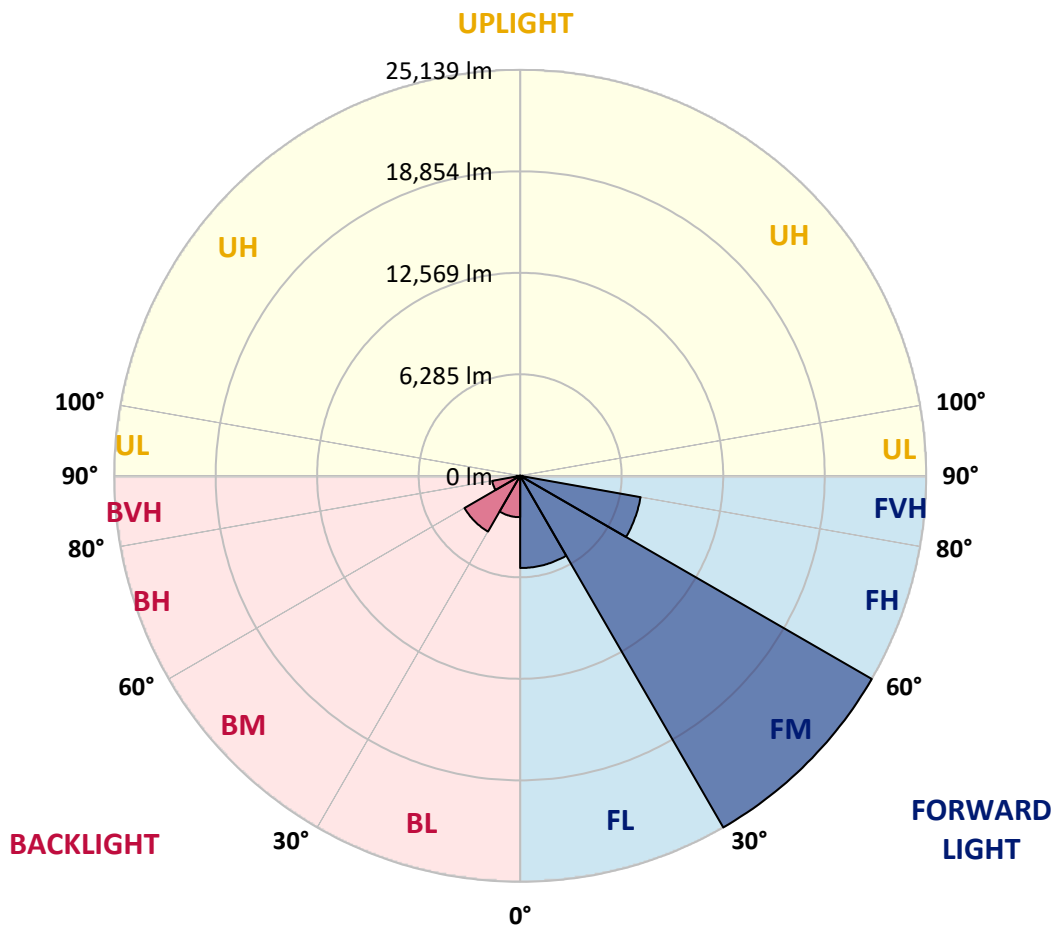
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5708.8	12.1			
FM (30°-60°)	25138.7	53.4			
FH (60°-80°)	7572.6	16.1			G4/12000
FVH (80°-90°)	159.1	0.3			G2/225
BL (0°-30°)	2561.7	5.4	B4/5000		
BM (30°-60°)	3983.5	8.5	B3/5000		
BH (60°-80°)	1760.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	217.5	0.5			G2/225
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°	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2
2.5°	13540.8	13531.1	13584.6	13402.0	13277.8	13109.8	12888.2	12605.8	12301.4	11980.0
5°	14760.7	14675.5	14731.5	14595.1	14458.8	14205.5	13876.8	13416.6	12854.1	12213.7
7.5°	14568.3	14509.9	14653.6	14775.3	14877.6	14845.9	14604.9	14122.7	13397.1	12467.0
10°	13017.3	12951.5	13153.6	13574.9	14193.4	14731.5	15023.7	14724.2	13952.3	12744.6
12.5°	11648.8	11617.2	11751.1	12092.0	12778.6	13811.1	14970.1	15250.1	14529.4	13073.3
15°	11064.4	11025.5	11110.7	11283.6	11721.9	12683.7	14483.1	15610.5	15096.7	13453.1
17.5°	10935.4	10891.6	10928.1	11018.2	11300.6	12033.6	13747.8	15788.3	15688.4	13876.8
20°	11174.0	11137.5	11142.4	11137.5	11334.7	11916.7	13236.4	15720.1	16204.6	14266.4
22.5°	11751.1	11690.2	11692.7	11563.6	11670.7	12121.2	13102.5	15537.5	16664.8	14607.3
25°	12691.0	12581.4	12603.3	12274.6	12245.4	12579.0	13311.9	15396.2	17122.6	14880.0
27.5°	13976.6	13852.5	13786.7	13297.3	13063.5	13229.1	13738.0	15444.9	17556.0	15116.2
30°	15583.7	15432.8	15298.8	14604.9	14181.2	14120.3	14400.3	15766.3	18067.4	15364.6
32.5°	17553.6	17378.3	17134.8	16214.4	15617.8	15298.8	15257.4	16338.6	18666.4	15681.1
35°	19898.5	19669.6	19323.8	18133.1	17378.3	16725.7	16387.3	17164.0	19487.0	16158.4
37.5°	22313.9	22055.8	21739.3	20322.1	19394.4	18432.6	17765.4	18284.1	20580.2	16806.1
40°	24541.9	24252.2	23957.5	22696.2	21700.3	20541.3	19452.9	19701.2	21917.0	17580.4
42.5°	25856.8	25642.5	25530.5	24848.7	24079.3	22903.2	21551.8	21381.3	23419.4	18471.6
45°	25798.4	25710.7	26056.5	26338.9	26156.3	25503.7	24011.1	23239.2	24926.6	19243.5
47.5°	24420.2	24478.6	25250.5	26838.1	27536.9	27877.8	26811.3	25063.0	26236.7	19820.5
50°	20670.3	20719.0	22506.3	25929.8	27892.4	29813.6	29589.6	26843.0	27252.0	20173.6
52.5°	17702.1	17733.8	18500.8	23236.8	26718.8	30787.6	32092.7	28520.6	27994.7	20271.0
55°	13333.8	13443.4	14302.9	18230.5	23665.3	30015.7	33617.0	30249.5	28464.6	20280.7
57.5°	7789.4	7908.7	8970.4	12374.4	18393.7	27325.1	33848.3	31783.5	28783.6	20202.8
60°	3815.6	3866.7	4329.4	6503.8	11342.0	22141.1	31988.0	32526.1	28961.4	20161.4
62.5°	2571.3	2564.0	2583.5	3209.3	5588.2	14225.0	28111.6	31225.9	28866.4	20003.2
65°	2210.9	2184.2	2111.1	2252.3	2895.2	6506.2	21719.8	27344.6	28143.2	19606.3
67.5°	1911.4	1913.9	1916.3	1872.5	2067.3	3002.3	13272.9	21539.6	25547.6	17726.5
70°	1582.7	1604.6	1614.4	1614.4	1685.0	1969.9	5666.1	14763.1	20151.7	13898.7
72.5°	1441.5	1395.2	1400.1	1375.8	1375.8	1499.9	2281.6	8368.9	12695.9	7818.6
75°	1176.1	1205.3	1210.2	1193.1	1137.1	1144.4	1353.8	3511.2	5432.4	3243.4
77.5°	1015.4	1015.4	1025.1	1012.9	969.1	857.1	903.4	1361.1	1848.1	1329.5
80°	815.7	813.3	854.7	879.0	810.8	633.1	577.1	752.4	820.6	584.4
82.5°	396.9	421.2	586.8	669.6	616.0	457.8	353.1	467.5	438.3	258.1
85°	231.3	219.1	263.0	372.5	353.1	253.2	170.4	243.5	228.9	131.5
87.5°	73.0	68.2	53.6	126.6	102.3	70.6	46.3	70.6	63.3	29.2
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°
11802.2	0°	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2	11802.2
11841.2	2.5°	11668.3	11381.0	11096.1	10835.6	10677.3	10575.0	10472.7	10358.3	10314.5	10248.7
11872.8	5°	11551.4	10996.3	10502.0	10075.8	9688.7	9384.3	9077.5	8829.2	8717.1	8792.6
11972.7	7.5°	11483.3	10679.7	9917.6	9136.0	8383.6	7782.1	7258.6	6890.9	6725.3	6766.7
12070.1	10°	11422.4	10321.8	9160.3	7925.8	6844.7	6099.6	5563.9	5283.9	5179.2	5201.1
12201.6	12.5°	11366.4	9920.0	8247.2	6623.1	5473.8	4981.9	4828.5	4831.0	4850.4	4865.0
12411.0	15°	11356.6	9435.5	7226.9	5483.5	4733.6	4701.9	4867.5	4972.2	5028.2	5045.2
12586.3	17.5°	11342.0	8855.9	6187.2	4706.8	4553.4	4767.6	4921.0	4989.2	5033.1	5035.5
12756.7	20°	11283.6	8120.6	5227.9	4336.7	4514.4	4699.5	4794.4	4848.0	4884.5	4896.7
12885.8	22.5°	11103.4	7302.4	4480.3	4171.1	4358.6	4507.1	4619.1	4680.0	4701.9	4716.5
12910.1	25°	10779.6	6386.9	3964.1	4012.8	4141.9	4329.4	4419.4	4431.6	4424.3	4446.2
12849.3	27.5°	10355.9	5405.6	3642.7	3798.5	3964.1	4124.8	4173.5	4166.2	4151.6	4175.9
12744.6	30°	9844.5	4524.1	3438.2	3557.5	3783.9	3930.0	3973.8	3956.8	3927.6	3954.4
12691.0	32.5°	9304.0	3803.4	3270.1	3389.5	3635.4	3779.1	3822.9	3805.8	3783.9	3805.8
12751.9	35°	8799.9	3299.4	3114.3	3277.5	3518.5	3659.7	3715.7	3718.2	3718.2	3745.0
12912.6	37.5°	8337.3	3004.7	2985.3	3206.8	3438.2	3564.8	3645.1	3650.0	3545.3	3552.6
13185.3	40°	7908.7	2880.6	2926.8	3160.6	3360.2	3482.0	3486.9	3214.1	3021.8	3016.9
13497.0	42.5°	7558.1	2856.2	2943.9	3155.7	3304.2	3309.1	2965.8	2753.9	2700.4	2702.8
13784.3	45°	7229.4	2848.9	2982.8	3155.7	3221.4	2858.6	2627.3	2571.3	2576.2	2595.7
13913.3	47.5°	6861.7	2819.7	2990.1	3111.9	2982.8	2542.1	2473.9	2449.6	2439.8	2444.7
13884.1	50°	6459.9	2715.0	2897.6	3024.2	2573.7	2405.7	2320.5	2313.2	2325.4	2332.7
13721.0	52.5°	6036.3	2544.5	2739.3	2865.9	2386.3	2286.4	2191.5	2208.5	2262.1	2279.1
13550.5	55°	5758.7	2344.9	2529.9	2549.4	2254.8	2174.4	2094.1	2133.0	2232.9	2264.5
13448.3	57.5°	5685.6	2133.0	2291.3	2269.4	2086.8	2077.0	2028.3	2062.4	2189.0	2235.3
13443.4	60°	5663.7	1943.1	2057.5	2040.5	1923.6	1969.9	1957.7	1974.7	2018.6	2033.2
13394.7	62.5°	5493.3	1792.1	1848.1	1823.8	1777.5	1857.9	1887.1	1850.6	1884.7	1901.7
13061.1	65°	5059.8	1670.4	1643.6	1626.6	1646.0	1719.1	1777.5	1704.5	1736.1	1784.8
11775.4	67.5°	4344.0	1504.8	1431.8	1451.2	1512.1	1551.1	1626.6	1543.8	1570.5	1653.3
9484.2	70°	3513.6	1295.4	1229.7	1285.7	1344.1	1424.4	1436.6	1380.6	1443.9	1536.5
5787.9	72.5°	2486.1	1083.6	1037.3	1151.7	1171.2	1275.9	1249.1	1222.3	1310.0	1341.7
2861.1	75°	1723.9	874.1	847.4	935.0	1005.6	1095.7	1076.3	1107.9	1293.0	1307.6
1429.3	77.5°	1090.9	679.4	662.3	718.3	815.7	915.5	947.2	1307.6	2208.5	2296.2
742.7	80°	633.1	506.5	487.0	530.8	616.0	708.6	913.1	1604.6	1456.1	1439.1
333.6	82.5°	353.1	348.2	323.8	336.0	411.5	511.3	1290.5	1129.8	918.0	947.2
133.9	85°	165.6	204.5	175.3	168.0	231.3	599.0	862.0	645.3	428.6	418.8
29.2	87.5°	43.8	39.0	39.0	43.8	97.4	516.2	343.3	275.2	163.1	158.3
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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