

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: P956782

Luminaire Tested: **GALN-SB9B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956782
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-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46871 lumens
Efficiency: N/A
Efficacy: 142.2 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

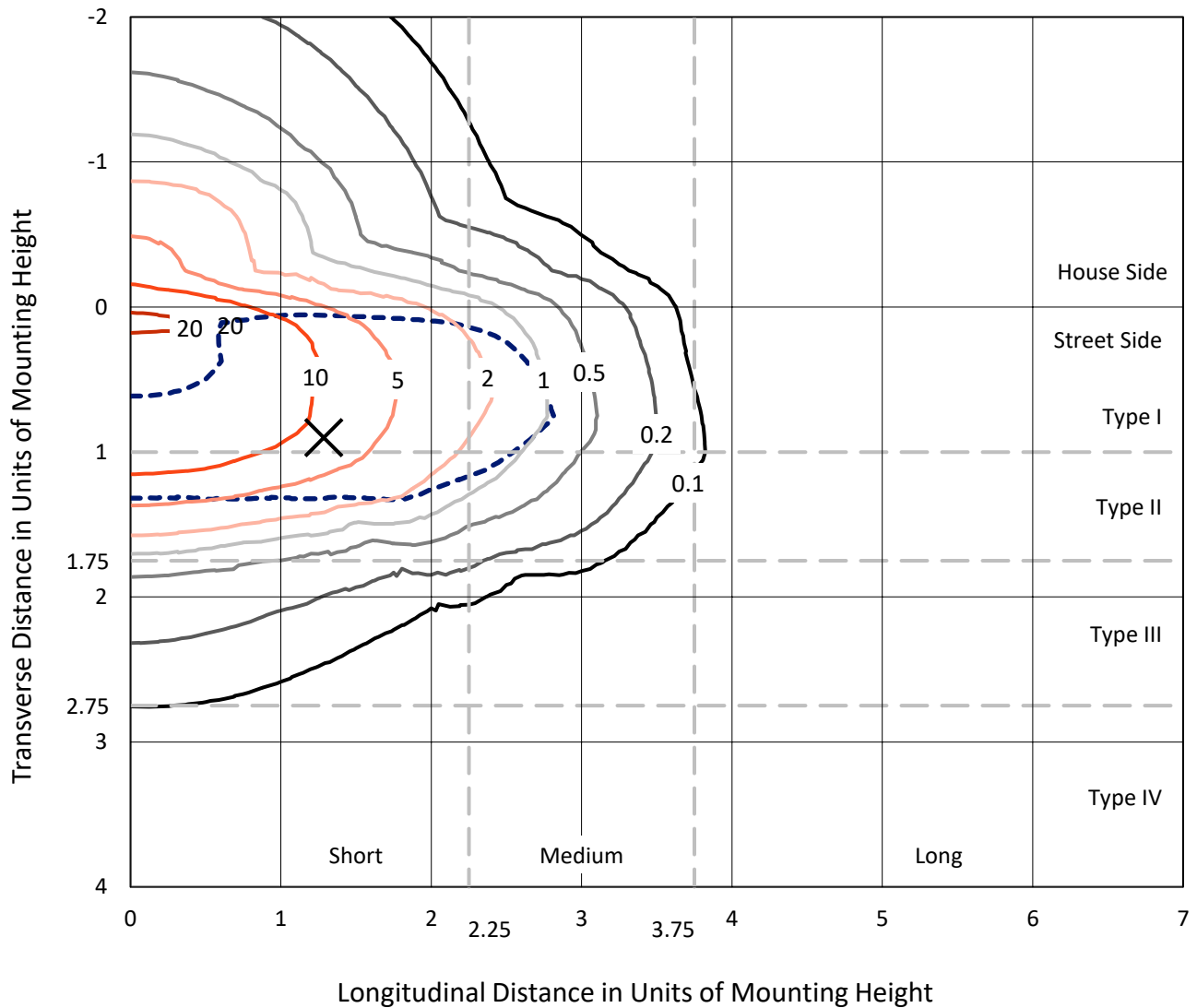
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

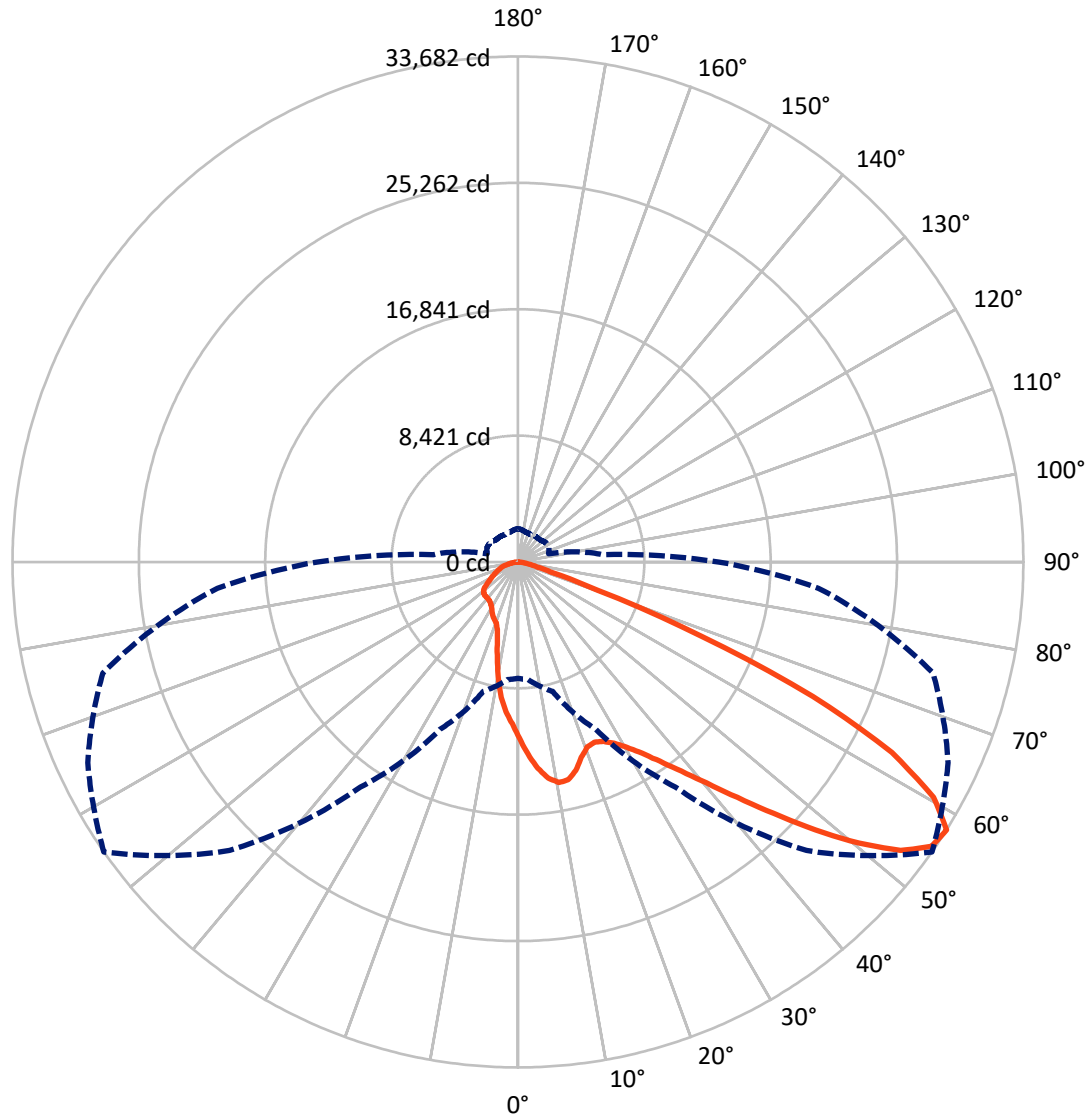
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 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	8481.1	0.0	8481.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	38389.9	0.0	38389.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	46871.0	0.0	46871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.8	2.3
10°-20°	2750.7	5.9
20°-30°	4389.4	9.4
30°-40°	6949.5	14.8
40°-50°	10636.9	22.7
50°-60°	11393.1	24.3
60°-70°	7167.4	15.3
70°-80°	2119.6	4.5
80°-90°	374.8	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°	46871.0	100.0
0°-180°	46871.0	100.0

Coefficient of Utilization



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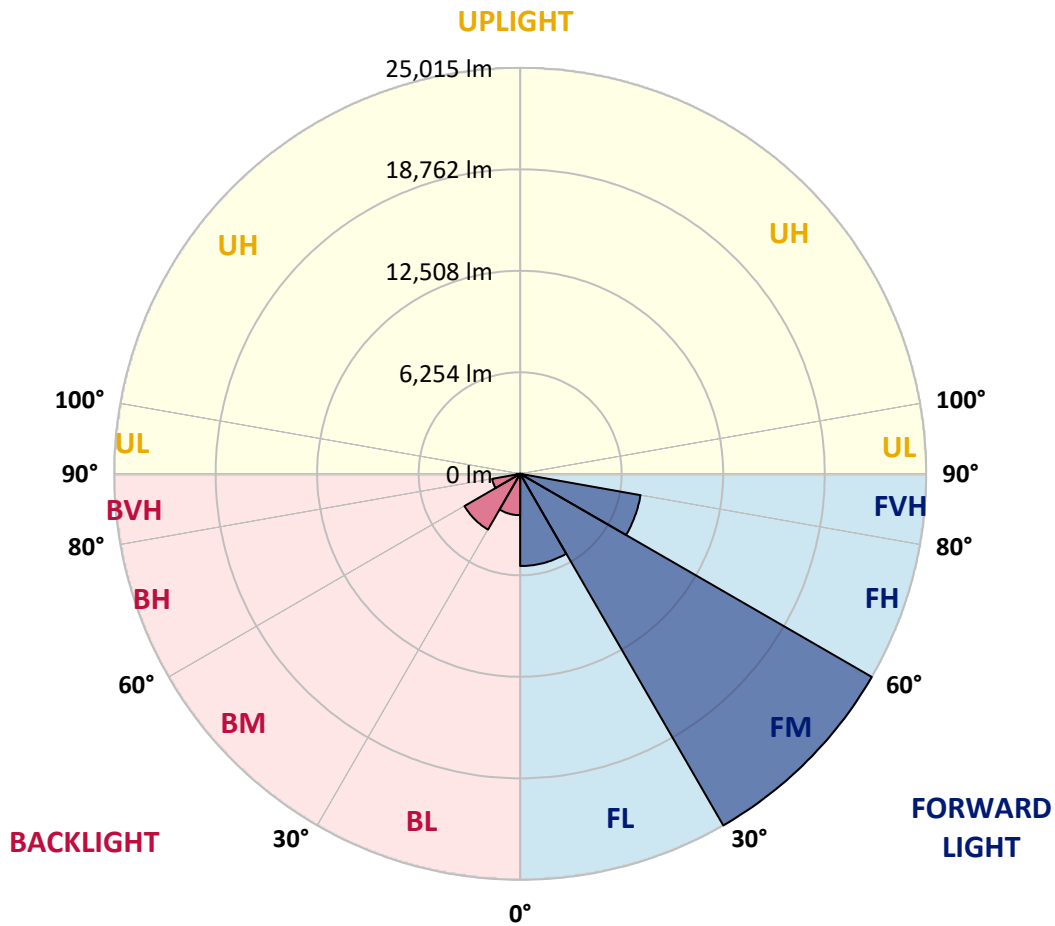
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5680.8	12.1			
FM (30°-60°)	25015.4	53.4			
FH (60°-80°)	7535.4	16.1			G4/12000
FVH (80°-90°)	158.3	0.3			G2/225
BL (0°-30°)	2549.1	5.4	B4/5000		
BM (30°-60°)	3964.0	8.5	B3/5000		
BH (60°-80°)	1751.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	216.4	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°	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4
2.5°	13474.4	13464.7	13518.0	13336.3	13212.7	13045.5	12825.0	12543.9	12241.1	11921.2
5°	14688.3	14603.5	14659.2	14523.5	14387.9	14135.9	13808.8	13350.8	12791.1	12153.8
7.5°	14496.9	14438.7	14581.7	14702.9	14804.6	14773.1	14533.2	14053.5	13331.4	12405.8
10°	12953.4	12888.0	13089.1	13508.3	14123.8	14659.2	14950.0	14652.0	13883.9	12682.1
12.5°	11591.7	11560.2	11693.5	12032.7	12716.0	13743.3	14896.7	15175.3	14458.1	13009.2
15°	11010.2	10971.4	11056.2	11228.2	11664.4	12621.5	14412.1	15533.9	15022.7	13387.2
17.5°	10881.8	10838.1	10874.5	10964.1	11245.2	11974.5	13680.3	15710.8	15611.5	13808.8
20°	11119.2	11082.9	11087.7	11082.9	11279.1	11858.2	13171.5	15643.0	16125.2	14196.4
22.5°	11693.5	11632.9	11635.3	11506.9	11613.5	12061.8	13038.2	15461.3	16583.1	14535.7
25°	12628.8	12519.7	12541.5	12214.4	12185.3	12517.3	13246.6	15320.7	17038.6	14807.0
27.5°	13908.1	13784.5	13719.1	13232.1	12999.5	13164.2	13670.6	15369.2	17469.9	15042.1
30°	15507.3	15357.1	15223.8	14533.2	14111.6	14051.1	14329.7	15689.0	17978.8	15289.2
32.5°	17467.5	17293.1	17050.8	16134.9	15541.2	15223.8	15182.6	16258.4	18574.8	15604.2
35°	19800.9	19573.1	19229.0	18044.2	17293.1	16643.7	16306.9	17079.8	19391.4	16079.1
37.5°	22204.5	21947.7	21632.7	20222.5	19299.3	18342.2	17678.3	18194.4	20479.3	16723.6
40°	24421.6	24133.2	23840.0	22584.9	21593.9	20440.6	19357.5	19604.6	21809.6	17494.2
42.5°	25730.0	25516.8	25405.3	24726.9	23961.2	22790.9	21446.1	21276.5	23304.6	18381.0
45°	25671.8	25584.6	25928.7	26209.7	26028.0	25378.7	23893.3	23125.3	24804.4	19149.1
47.5°	24300.4	24358.6	25126.7	26706.5	27401.9	27741.1	26679.8	24940.1	26108.0	19723.3
50°	20569.0	20617.4	22395.9	25802.7	27755.6	29667.4	29444.5	26711.3	27118.4	20074.7
52.5°	17615.3	17646.8	18410.1	23122.8	26587.7	30636.6	31935.3	28380.8	27857.4	20171.6
55°	13268.4	13377.5	14232.8	18141.1	23549.3	29868.5	33452.1	30101.1	28325.0	20181.3
57.5°	7751.2	7870.0	8926.4	12313.8	18303.5	27191.1	33682.3	31627.6	28642.5	20103.8
60°	3796.9	3847.7	4308.1	6471.9	11286.4	22032.5	31831.1	32366.6	28819.3	20062.6
62.5°	2558.7	2551.4	2570.8	3193.5	5560.8	14155.3	27973.7	31072.7	28724.8	19905.1
65°	2200.1	2173.4	2100.8	2241.3	2881.0	6474.3	21613.3	27210.5	28005.2	19510.1
67.5°	1902.1	1904.5	1906.9	1863.3	2057.1	2987.6	13207.9	21434.0	25422.3	17639.5
70°	1575.0	1596.8	1606.5	1606.5	1676.7	1960.2	5638.4	14690.7	20052.9	13830.6
72.5°	1434.4	1388.4	1393.2	1369.0	1369.0	1492.6	2270.4	8327.9	12633.6	7780.3
75°	1170.3	1199.4	1204.2	1187.3	1131.5	1138.8	1347.2	3494.0	5405.7	3227.5
77.5°	1010.4	1010.4	1020.1	1008.0	964.4	852.9	898.9	1354.5	1839.1	1323.0
80°	811.7	809.3	850.5	874.7	806.9	630.0	574.3	748.7	816.6	581.5
82.5°	395.0	419.2	583.9	666.3	613.0	455.5	351.3	465.2	436.1	256.8
85°	230.2	218.1	261.7	370.7	351.3	252.0	169.6	242.3	227.8	130.8
87.5°	72.7	67.8	53.3	126.0	101.8	70.3	46.0	70.3	63.0	29.1
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°
11744.4	0°	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4	11744.4
11783.1	2.5°	11611.1	11325.2	11041.7	10782.4	10624.9	10523.2	10421.4	10307.5	10263.9	10198.5
11814.6	5°	11494.8	10942.3	10450.5	10026.4	9641.2	9338.3	9033.0	8785.9	8674.4	8749.5
11914.0	7.5°	11426.9	10627.3	9868.9	9091.2	8342.4	7744.0	7223.0	6857.1	6692.4	6733.6
12010.9	10°	11366.4	10271.2	9115.4	7886.9	6811.1	6069.7	5536.6	5257.9	5153.8	5175.6
12141.7	12.5°	11310.6	9871.4	8206.8	6590.6	5446.9	4957.5	4804.8	4807.3	4826.6	4841.2
12350.1	15°	11300.9	9389.2	7191.5	5456.6	4710.3	4678.8	4843.6	4947.8	5003.5	5020.5
12524.6	17.5°	11286.4	8812.5	6156.9	4683.7	4531.0	4744.3	4896.9	4964.8	5008.4	5010.8
12694.2	20°	11228.2	8080.8	5202.2	4315.4	4492.3	4676.4	4770.9	4824.2	4860.6	4872.7
12822.6	22.5°	11048.9	7266.6	4458.3	4150.6	4337.2	4485.0	4596.5	4657.0	4678.8	4693.4
12846.8	25°	10726.7	6355.6	3944.7	3993.1	4121.5	4308.1	4397.8	4409.9	4402.6	4424.4
12786.2	27.5°	10305.1	5379.1	3624.8	3779.9	3944.7	4104.6	4153.0	4145.8	4131.2	4155.5
12682.1	30°	9796.2	4502.0	3421.3	3540.0	3765.4	3910.7	3954.4	3937.4	3908.3	3935.0
12628.8	32.5°	9258.3	3784.7	3254.1	3372.8	3617.6	3760.5	3804.1	3787.2	3765.4	3787.2
12689.3	35°	8756.8	3283.2	3099.0	3261.4	3501.3	3641.8	3697.5	3699.9	3699.9	3726.6
12849.2	37.5°	8296.4	2990.0	2970.6	3191.1	3421.3	3547.3	3627.3	3632.1	3527.9	3535.2
13120.6	40°	7870.0	2866.4	2912.5	3145.1	3343.8	3464.9	3469.8	3198.4	3007.0	3002.1
13430.8	42.5°	7521.0	2842.2	2929.4	3140.2	3288.0	3292.9	2951.2	2740.4	2687.1	2689.5
13716.7	45°	7193.9	2834.9	2968.2	3140.2	3205.6	2844.6	2614.4	2558.7	2563.5	2582.9
13845.1	47.5°	6828.1	2805.9	2975.5	3096.6	2968.2	2529.6	2461.8	2437.6	2427.9	2432.7
13816.0	50°	6428.3	2701.7	2883.4	3009.4	2561.1	2393.9	2309.1	2301.9	2314.0	2321.2
13653.7	52.5°	6006.7	2532.1	2725.9	2851.9	2374.6	2275.2	2180.7	2197.7	2251.0	2267.9
13484.1	55°	5730.4	2333.4	2517.5	2536.9	2243.7	2163.8	2083.8	2122.6	2221.9	2253.4
13382.3	57.5°	5657.7	2122.6	2280.1	2258.2	2076.5	2066.8	2018.4	2052.3	2178.3	2224.3
13377.5	60°	5635.9	1933.6	2047.4	2030.5	1914.2	1960.2	1948.1	1965.1	2008.7	2023.2
13329.0	62.5°	5466.3	1783.3	1839.1	1814.8	1768.8	1848.8	1877.8	1841.5	1875.4	1892.4
12997.0	65°	5035.0	1662.2	1635.5	1618.6	1638.0	1710.6	1768.8	1696.1	1727.6	1776.1
11717.7	67.5°	4322.7	1497.4	1424.7	1444.1	1504.7	1543.5	1618.6	1536.2	1562.8	1645.2
9437.6	70°	3496.4	1289.0	1223.6	1279.4	1337.5	1417.5	1429.6	1373.8	1436.8	1528.9
5759.5	72.5°	2473.9	1078.2	1032.2	1146.1	1165.5	1269.7	1243.0	1216.4	1303.6	1335.1
2847.0	75°	1715.5	869.9	843.2	930.4	1000.7	1090.4	1071.0	1102.5	1286.6	1301.2
1422.3	77.5°	1085.5	676.0	659.1	714.8	811.7	911.1	942.6	1301.2	2197.7	2284.9
739.0	80°	630.0	504.0	484.6	528.2	613.0	705.1	908.6	1596.8	1449.0	1432.0
332.0	82.5°	351.3	346.5	322.3	334.4	409.5	508.8	1284.2	1124.3	913.5	942.6
133.3	85°	164.8	203.5	174.5	167.2	230.2	596.1	857.7	642.1	426.5	416.8
29.1	87.5°	43.6	38.8	38.8	43.6	96.9	513.7	341.6	273.8	162.3	157.5
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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