

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: P953191

Luminaire Tested: **GALN-SB6D-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953191
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-SB6D-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54573 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

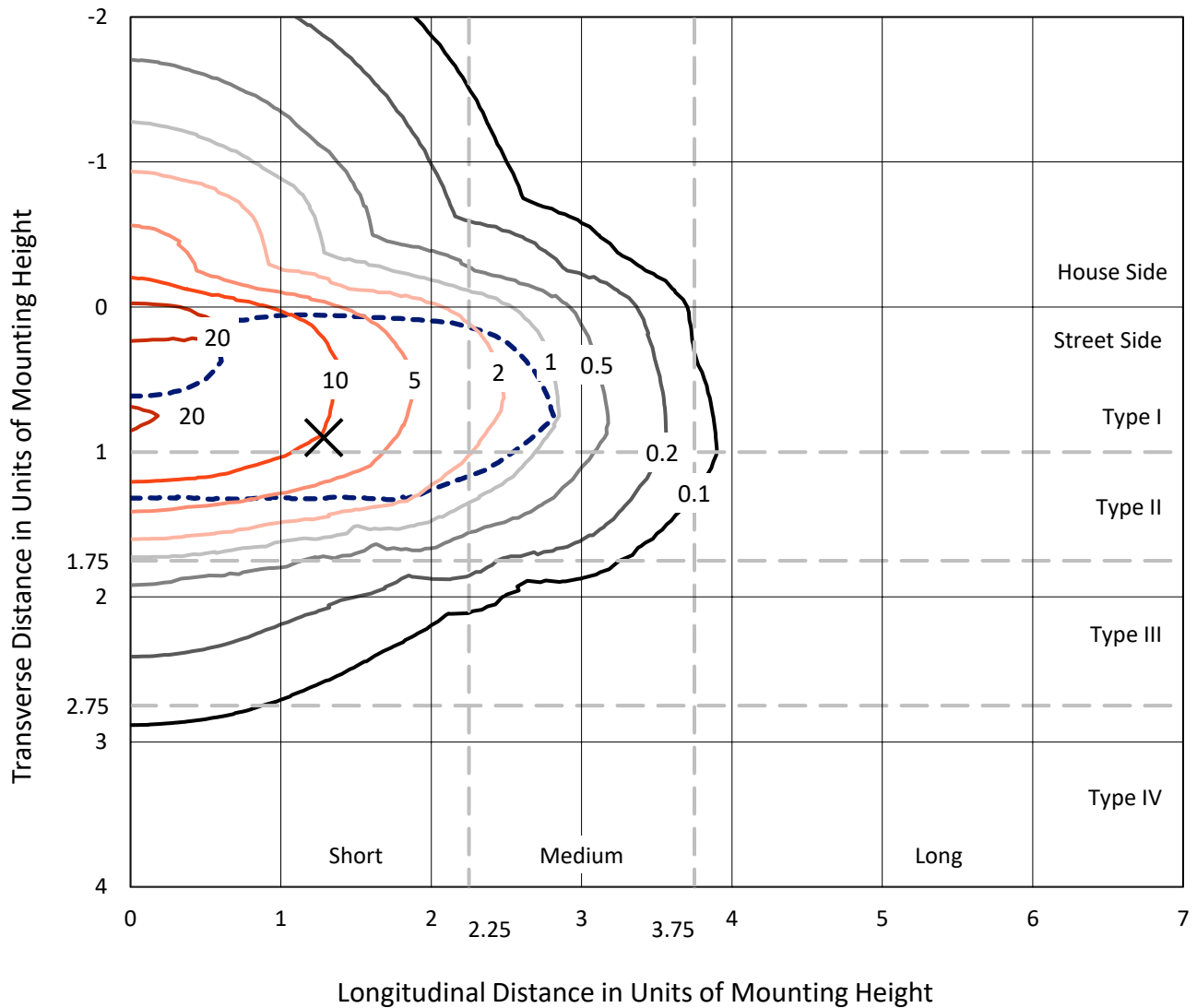
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

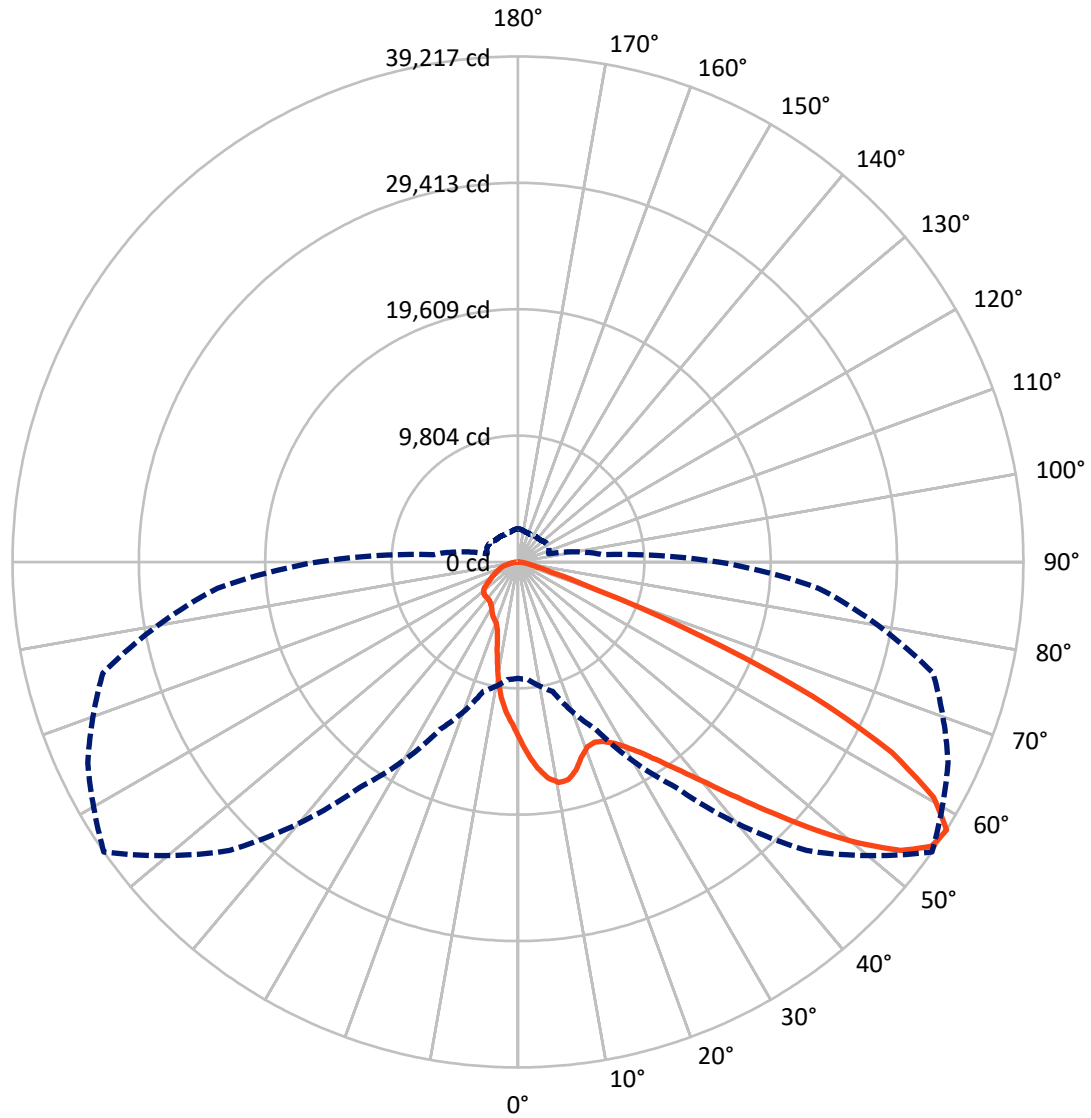
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.4 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB6D-827-U-AFL

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	9874.7	0.0	9874.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	44698.3	0.0	44698.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	54573.0	0.0	54573.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1268.9	2.3
10°-20°	3202.7	5.9
20°-30°	5110.6	9.4
30°-40°	8091.4	14.8
40°-50°	12384.7	22.7
50°-60°	13265.2	24.3
60°-70°	8345.2	15.3
70°-80°	2467.8	4.5
80°-90°	436.3	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°	54573.0	100.0
0°-180°	54573.0	100.0



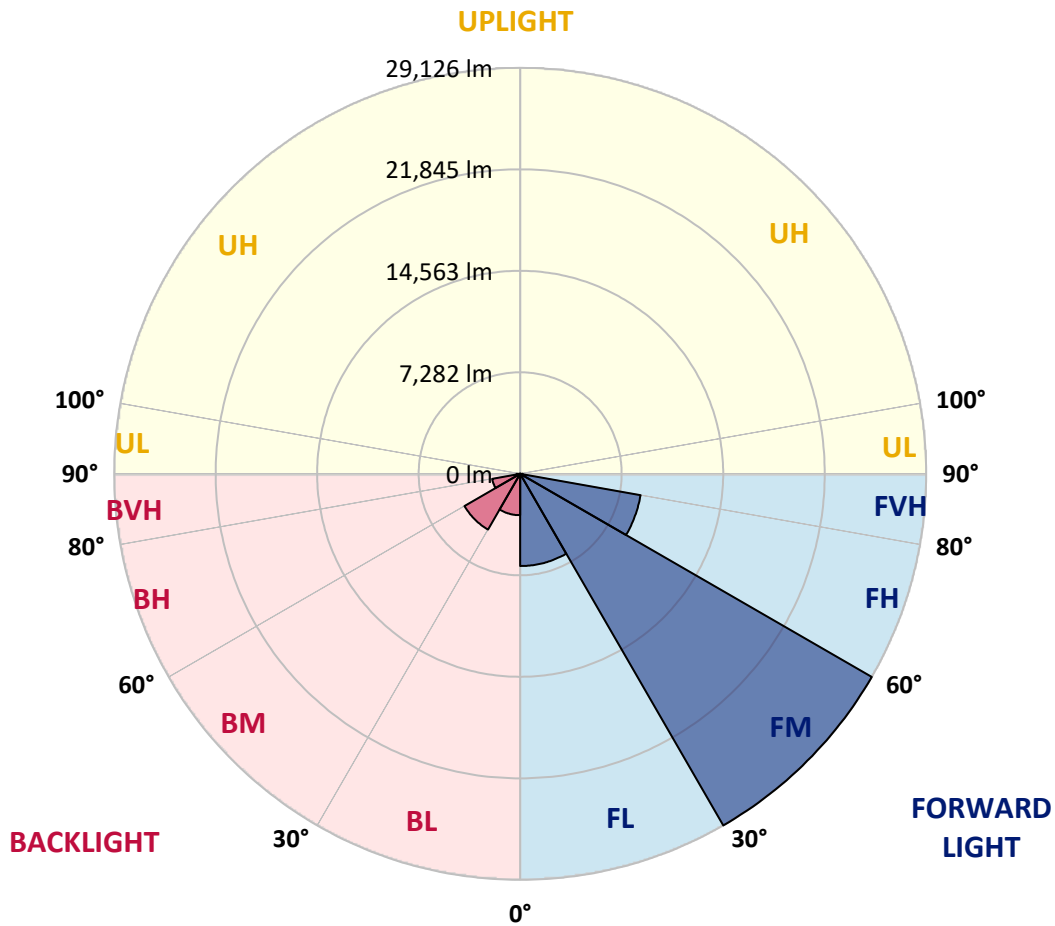
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6614.2	12.1			
FM (30°-60°)	29126.0	53.4			
FH (60°-80°)	8773.7	16.1			G4/12000
FVH (80°-90°)	184.4	0.3			G2/225
BL (0°-30°)	2968.0	5.4	B4/5000		
BM (30°-60°)	4615.4	8.5	B3/5000		
BH (60°-80°)	2039.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	252.0	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°	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2
2.5°	15688.5	15677.3	15739.3	15527.7	15383.9	15189.2	14932.5	14605.2	14252.6	13880.2
5°	17101.9	17003.2	17068.1	16910.1	16752.1	16458.7	16077.9	15544.7	14893.0	14151.0
7.5°	16879.1	16811.4	16977.8	17118.9	17237.4	17200.7	16921.4	16362.8	15522.1	14444.4
10°	15082.0	15005.8	15240.0	15728.0	16444.6	17068.1	17406.6	17059.6	16165.3	14766.0
12.5°	13496.5	13459.8	13615.0	14009.9	14805.5	16001.7	17344.6	17669.0	16833.9	15146.9
15°	12819.4	12774.3	12873.0	13073.3	13581.1	14695.5	16780.3	18086.5	17491.3	15587.0
17.5°	12669.9	12619.1	12661.4	12765.8	13093.1	13942.2	15928.3	18292.5	18176.8	16077.9
20°	12946.4	12904.0	12909.7	12904.0	13132.6	13806.8	15335.9	18213.5	18774.9	16529.2
22.5°	13615.0	13544.4	13547.3	13397.7	13521.9	14043.8	15180.7	18001.9	19308.1	16924.2
25°	14704.0	14577.0	14602.4	14221.5	14187.7	14574.2	15423.3	17838.3	19838.5	17240.2
27.5°	16193.5	16049.6	15973.5	15406.4	15135.6	15327.4	15917.1	17894.7	20340.7	17513.8
30°	18055.5	17880.6	17725.4	16921.4	16430.5	16360.0	16684.4	18267.1	20933.1	17801.6
32.5°	20337.8	20134.7	19852.6	18786.2	18095.0	17725.4	17677.5	18930.1	21627.1	18168.3
35°	23054.6	22789.4	22388.8	21009.3	20134.7	19378.6	18986.5	19886.4	22577.8	18721.3
37.5°	25853.2	25554.2	25187.4	23545.5	22470.6	21356.3	20583.3	21184.2	23844.5	19471.7
40°	28434.6	28098.9	27757.5	26296.1	25142.3	23799.4	22538.3	22826.1	25393.4	20368.9
42.5°	29958.0	29709.8	29580.0	28790.1	27898.6	26535.9	24970.2	24772.7	27134.0	21401.4
45°	29890.3	29788.8	30189.4	30516.6	30305.0	29549.0	27819.6	26925.3	28880.3	22295.7
47.5°	28293.5	28361.2	29255.6	31095.0	31904.6	32299.6	31063.9	29038.3	30398.1	22964.3
50°	23948.9	24005.4	26076.1	30042.7	32316.5	34542.4	34282.9	31100.6	31574.6	23373.4
52.5°	20509.9	20546.6	21435.3	26922.4	30956.7	35670.9	37183.1	33044.4	32435.0	23486.3
55°	15448.7	15575.7	16571.6	21122.1	27419.0	34776.6	38949.1	35047.4	32979.5	23497.5
57.5°	9024.9	9163.2	10393.2	14337.2	21311.1	31659.2	39217.1	36824.8	33349.1	23407.3
60°	4420.8	4480.0	5016.0	7535.4	13141.0	25652.9	37061.7	37685.2	33555.0	23359.3
62.5°	2979.2	2970.7	2993.3	3718.3	6474.6	16481.3	32570.4	36178.7	33445.0	23175.9
65°	2561.6	2530.6	2446.0	2609.6	3354.4	7538.2	25164.9	31681.8	32607.1	22716.1
67.5°	2214.6	2217.4	2220.3	2169.5	2395.2	3478.5	15378.2	24956.1	29599.7	20538.1
70°	1833.8	1859.2	1870.4	1870.4	1952.3	2282.3	6564.9	17104.8	23348.0	16103.3
72.5°	1670.1	1616.5	1622.2	1594.0	1594.0	1737.8	2643.4	9696.4	14709.6	9058.8
75°	1362.6	1396.5	1402.1	1382.4	1317.5	1326.0	1568.6	4068.1	6294.0	3757.8
77.5°	1176.4	1176.4	1187.7	1173.6	1122.8	993.1	1046.7	1577.0	2141.3	1540.4
80°	945.1	942.3	990.2	1018.4	939.5	733.5	668.6	871.7	950.7	677.1
82.5°	459.9	488.1	679.9	775.8	713.8	530.4	409.1	541.7	507.8	299.0
85°	268.0	253.9	304.7	431.6	409.1	293.4	197.5	282.1	265.2	152.3
87.5°	84.6	79.0	62.1	146.7	118.5	81.8	53.6	81.8	73.4	33.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953191
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
13674.2	0°	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2	13674.2
13719.4	2.5°	13519.1	13186.2	12856.1	12554.2	12370.8	12252.4	12133.9	12001.3	11950.5	11874.3
13756.0	5°	13383.6	12740.4	12167.7	11674.0	11225.4	10872.8	10517.3	10229.6	10099.8	10187.3
13871.7	7.5°	13304.6	12373.7	11490.6	10585.0	9713.3	9016.5	8409.9	7983.9	7792.1	7840.0
13984.6	10°	13234.1	11958.9	10613.3	9182.9	7930.3	7067.0	6446.4	6121.9	6000.6	6026.0
14136.9	12.5°	13169.2	11493.5	9555.3	7673.6	6342.0	5772.1	5594.4	5597.2	5619.8	5636.7
14379.5	15°	13157.9	10932.0	8373.2	6353.3	5484.4	5447.7	5639.5	5760.8	5825.7	5845.5
14582.6	17.5°	13141.0	10260.6	7168.6	5453.3	5275.6	5523.9	5701.6	5780.6	5831.4	5834.2
14780.1	20°	13073.3	9408.6	6057.1	5024.5	5230.5	5444.9	5554.9	5617.0	5659.3	5673.4
14929.6	22.5°	12864.5	8460.7	5191.0	4832.7	5049.9	5222.0	5351.8	5422.3	5447.7	5464.6
14957.9	25°	12489.3	7399.9	4592.9	4649.3	4798.8	5016.0	5120.4	5134.5	5126.1	5151.5
14887.3	27.5°	11998.4	6263.0	4220.5	4401.0	4592.9	4779.1	4835.5	4827.0	4810.1	4838.3
14766.0	30°	11406.0	5241.7	3983.5	4121.7	4384.1	4553.4	4604.2	4584.4	4550.6	4581.6
14704.0	32.5°	10779.7	4406.7	3788.8	3927.1	4212.0	4378.5	4429.2	4409.5	4384.1	4409.5
14774.5	35°	10195.7	3822.7	3608.3	3797.3	4076.6	4240.2	4305.1	4307.9	4307.9	4339.0
14960.7	37.5°	9659.7	3481.3	3458.8	3715.5	3983.5	4130.2	4223.3	4228.9	4107.6	4116.1
15276.6	40°	9163.2	3337.4	3391.0	3661.9	3893.2	4034.3	4039.9	3723.9	3501.1	3495.4
15637.8	42.5°	8756.9	3309.2	3410.8	3656.2	3828.3	3834.0	3436.2	3190.7	3128.7	3131.5
15970.7	45°	8376.1	3300.8	3455.9	3656.2	3732.4	3312.1	3044.0	2979.2	2984.8	3007.4
16120.2	47.5°	7950.1	3266.9	3464.4	3605.5	3455.9	2945.3	2866.3	2838.1	2826.8	2832.5
16086.3	50°	7484.6	3145.6	3357.2	3503.9	2982.0	2787.3	2688.6	2680.1	2694.2	2702.7
15897.3	52.5°	6993.7	2948.1	3173.8	3320.5	2764.7	2649.1	2539.1	2558.8	2620.9	2640.6
15699.8	55°	6672.1	2716.8	2931.2	2953.8	2612.4	2519.3	2426.2	2471.3	2587.0	2623.7
15581.3	57.5°	6587.4	2471.3	2654.7	2629.3	2417.7	2406.5	2350.0	2389.5	2536.2	2589.8
15575.7	60°	6562.0	2251.3	2383.9	2364.1	2228.7	2282.3	2268.2	2288.0	2338.8	2355.7
15519.3	62.5°	6364.6	2076.4	2141.3	2113.1	2059.5	2152.6	2186.4	2144.1	2183.6	2203.3
15132.8	65°	5862.4	1935.3	1904.3	1884.5	1907.1	1991.7	2059.5	1974.8	2011.5	2067.9
13643.2	67.5°	5033.0	1743.5	1658.8	1681.4	1751.9	1797.1	1884.5	1788.6	1819.7	1915.6
10988.5	70°	4071.0	1500.9	1424.7	1489.6	1557.3	1650.4	1664.5	1599.6	1673.0	1780.2
6705.9	72.5°	2880.4	1255.4	1201.8	1334.4	1357.0	1478.3	1447.3	1416.2	1517.8	1554.5
3314.9	75°	1997.4	1012.8	981.8	1083.3	1165.1	1269.5	1247.0	1283.6	1498.0	1515.0
1656.0	77.5°	1263.9	787.1	767.4	832.2	945.1	1060.8	1097.4	1515.0	2558.8	2660.4
860.5	80°	733.5	586.8	564.2	615.0	713.8	821.0	1057.9	1859.2	1687.1	1667.3
386.5	82.5°	409.1	403.4	375.2	389.3	476.8	592.4	1495.2	1309.0	1063.6	1097.4
155.2	85°	191.8	237.0	203.1	194.7	268.0	694.0	998.7	747.6	496.5	485.2
33.9	87.5°	50.8	45.1	45.1	50.8	112.8	598.1	397.8	318.8	189.0	183.4
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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