

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: P951700

Luminaire Tested: **GALN-SB5D-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951700
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-SB5D-740-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55309 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

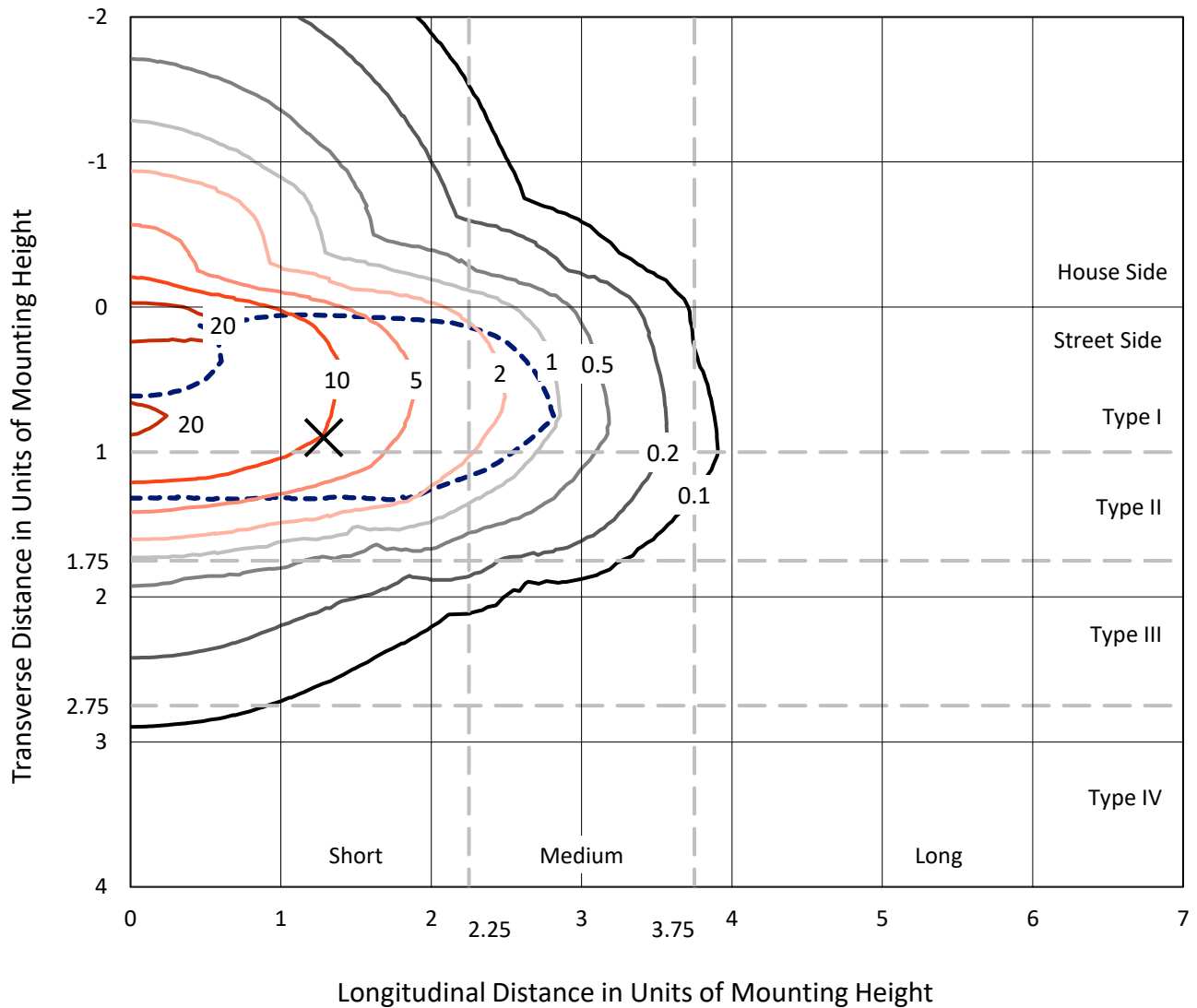
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

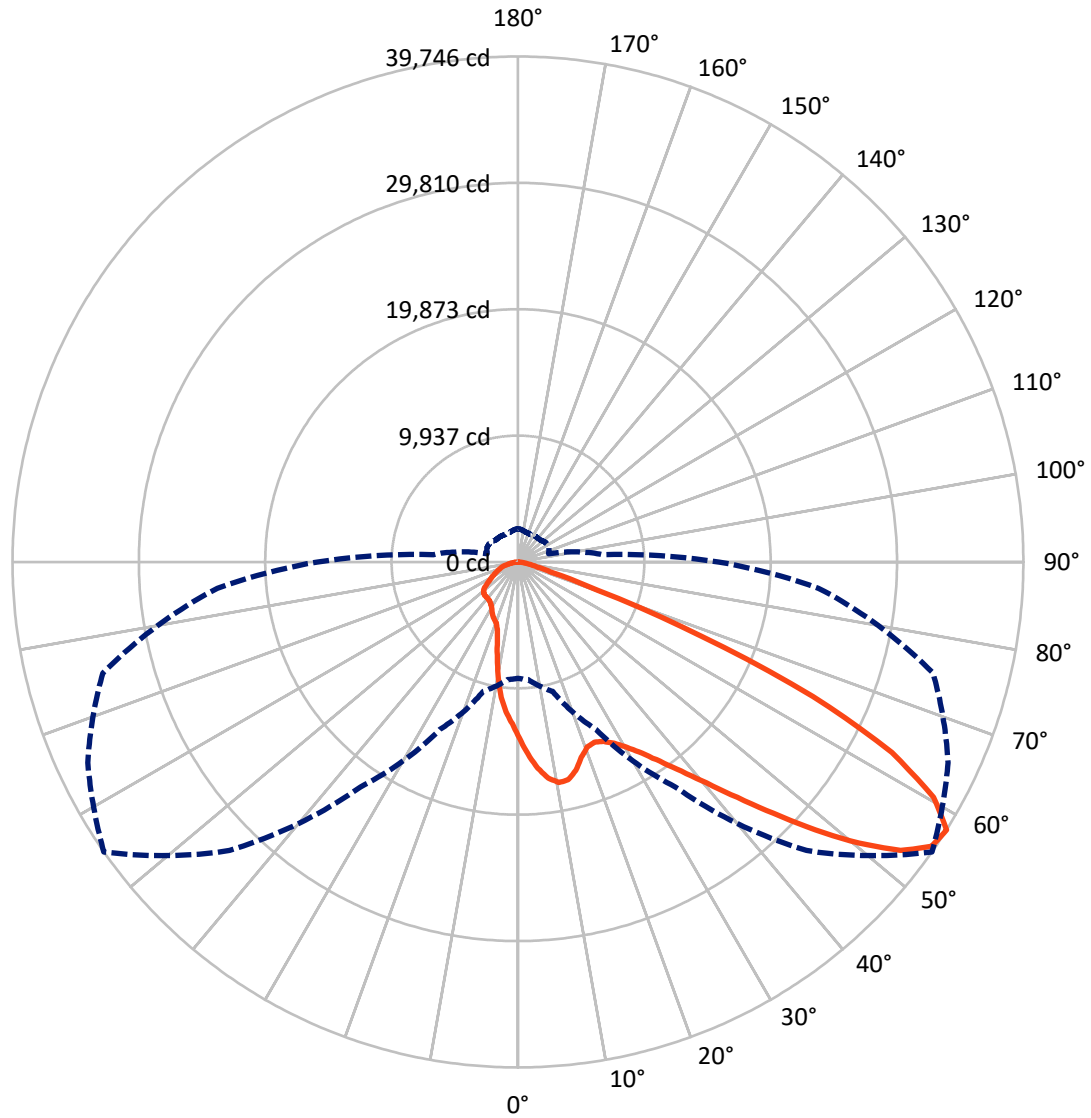
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.8 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	10007.9	0.0	10007.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	45301.1	0.0	45301.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	55309.0	0.0	55309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1286.0	2.3
10°-20°	3245.9	5.9
20°-30°	5179.6	9.4
30°-40°	8200.5	14.8
40°-50°	12551.8	22.7
50°-60°	13444.1	24.3
60°-70°	8457.8	15.3
70°-80°	2501.1	4.5
80°-90°	442.2	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°	55309.0	100.0
0°-180°	55309.0	100.0

Coefficient of Utilization



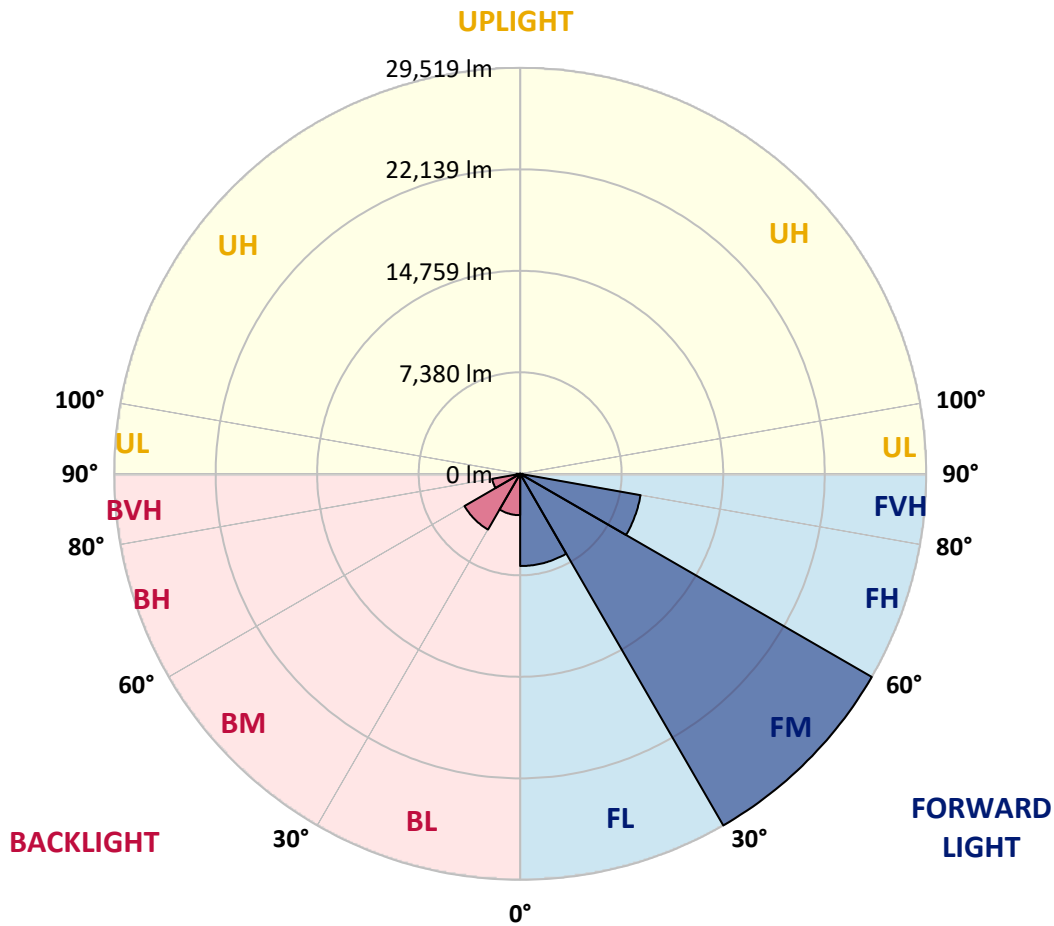
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6703.4	12.1			
FM (30°-60°)	29518.8	53.4			
FH (60°-80°)	8892.0	16.1			G4/12000
FVH (80°-90°)	186.8	0.3			G2/225
BL (0°-30°)	3008.0	5.4	B4/5000		
BM (30°-60°)	4677.6	8.5	B3/5000		
BH (60°-80°)	2066.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	255.4	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°	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6
2.5°	15900.1	15888.7	15951.6	15737.1	15591.3	15394.0	15133.9	14802.2	14444.8	14067.4
5°	17332.6	17232.5	17298.3	17138.2	16978.0	16680.7	16294.7	15754.3	15093.8	14341.8
7.5°	17106.7	17038.1	17206.8	17349.7	17469.8	17432.7	17149.6	16583.5	15731.4	14639.2
10°	15285.4	15208.2	15445.5	15940.2	16666.4	17298.3	17641.4	17289.7	16383.3	14965.2
12.5°	13678.5	13641.3	13798.6	14198.9	15005.2	16217.5	17578.5	17907.3	17061.0	15351.2
15°	12992.3	12946.5	13046.6	13249.6	13764.3	14893.7	17006.6	18330.5	17727.2	15797.2
17.5°	12840.8	12789.3	12832.2	12938.0	13269.6	14130.3	16143.2	18539.2	18422.0	16294.7
20°	13121.0	13078.1	13083.8	13078.1	13309.7	13993.0	15542.7	18459.1	19028.1	16752.2
22.5°	13798.6	13727.1	13730.0	13578.4	13704.2	14233.2	15385.5	18244.7	19568.5	17152.5
25°	14902.3	14773.6	14799.3	14413.3	14379.0	14770.7	15631.4	18078.8	20106.0	17472.7
27.5°	16411.9	16266.1	16188.9	15614.2	15339.7	15534.1	16131.7	18136.0	20615.0	17750.0
30°	18299.0	18121.7	17964.5	17149.6	16652.1	16580.6	16909.4	18513.5	21215.4	18041.7
32.5°	20612.1	20406.3	20120.3	19039.5	18339.0	17964.5	17915.9	19185.4	21918.8	18413.4
35°	23365.5	23096.8	22690.8	21292.6	20406.3	19640.0	19242.6	20154.6	22882.3	18973.8
37.5°	26201.9	25898.8	25527.1	23863.1	22773.7	21644.3	20860.9	21469.9	24166.1	19734.3
40°	28818.1	28477.8	28131.9	26650.8	25481.4	24120.4	22842.3	23134.0	25735.8	20643.6
42.5°	30362.1	30110.4	29978.9	29178.3	28274.8	26893.8	25307.0	25106.8	27500.0	21690.0
45°	30293.4	30190.5	30596.5	30928.2	30713.7	29947.5	28194.8	27288.4	29269.8	22596.4
47.5°	28675.1	28743.7	29650.1	31514.3	32334.9	32735.2	31482.9	29430.0	30808.1	23274.1
50°	24271.9	24329.1	26427.8	30447.8	32752.4	35008.3	34745.2	31520.0	32000.4	23688.6
52.5°	20786.5	20823.7	21724.4	27285.5	31374.2	36152.0	37684.5	33490.0	32872.5	23803.0
55°	15657.1	15785.8	16795.1	21407.0	27788.8	35245.6	39474.4	35520.1	33424.3	23814.4
57.5°	9146.6	9286.7	10533.4	14530.6	21598.5	32086.2	39746.0	37321.4	33798.8	23722.9
60°	4480.4	4540.4	5083.7	7637.0	13318.2	25998.9	37561.6	38193.5	34007.6	23674.3
62.5°	3019.3	3010.8	3033.6	3768.5	6561.9	16703.6	33009.7	36666.6	33896.1	23488.5
65°	2596.2	2564.7	2478.9	2644.8	3399.6	7639.8	25504.2	32109.0	33046.9	23022.4
67.5°	2244.5	2247.3	2250.2	2198.7	2427.5	3525.4	15585.6	25292.7	29998.9	20815.1
70°	1858.5	1884.2	1895.7	1895.7	1978.6	2313.1	6653.4	17335.5	23662.9	16320.4
72.5°	1692.7	1638.3	1644.1	1615.5	1615.5	1761.3	2679.1	9827.1	14908.0	9181.0
75°	1381.0	1415.3	1421.0	1401.0	1335.3	1343.8	1589.7	4123.0	6378.9	3808.5
77.5°	1192.3	1192.3	1203.7	1189.4	1138.0	1006.4	1060.8	1598.3	2170.1	1561.1
80°	957.8	955.0	1003.6	1032.2	952.1	743.4	677.6	883.5	963.6	686.2
82.5°	466.1	494.6	689.1	786.3	723.4	537.5	414.6	549.0	514.7	303.1
85°	271.6	257.3	308.8	437.5	414.6	297.4	200.1	285.9	268.8	154.4
87.5°	85.8	80.1	62.9	148.7	120.1	82.9	54.3	82.9	74.3	34.3
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°
13858.6	0°	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6	13858.6
13904.4	2.5°	13701.4	13364.0	13029.5	12723.5	12537.7	12417.6	12297.5	12163.1	12111.7	12034.5
13941.6	5°	13564.1	12912.2	12331.8	11831.5	11376.8	11019.4	10659.2	10367.5	10236.0	10324.6
14058.8	7.5°	13484.1	12540.5	11645.6	10727.8	9844.3	9138.1	8523.3	8091.6	7897.2	7945.8
14173.2	10°	13412.6	12120.2	10756.4	9306.8	8037.3	7162.3	6533.3	6204.5	6081.6	6107.3
14327.6	12.5°	13346.8	11648.5	9684.2	7777.1	6427.5	5850.0	5669.8	5672.7	5695.6	5712.7
14573.4	15°	13335.4	11079.5	8486.2	6439.0	5558.3	5521.2	5715.6	5838.5	5904.3	5924.3
14779.3	17.5°	13318.2	10399.0	7265.3	5526.9	5346.7	5598.4	5778.5	5858.5	5910.0	5912.9
14979.5	20°	13249.6	9535.5	6138.7	5092.3	5301.0	5518.3	5629.8	5692.7	5735.6	5749.9
15131.0	22.5°	13038.0	8574.8	5261.0	4897.8	5118.0	5292.4	5423.9	5495.4	5521.2	5538.3
15159.6	25°	12657.8	7499.7	4654.8	4712.0	4863.5	5083.7	5189.5	5203.8	5195.2	5220.9
15088.1	27.5°	12160.3	6347.5	4277.4	4460.4	4654.8	4843.5	4900.7	4892.1	4875.0	4903.6
14965.2	30°	11559.8	5312.4	4037.2	4177.3	4443.2	4614.8	4666.2	4646.2	4611.9	4643.4
14902.3	32.5°	10925.1	4466.1	3839.9	3980.0	4268.8	4437.5	4489.0	4469.0	4443.2	4469.0
14973.7	35°	10333.2	3874.2	3656.9	3848.5	4131.6	4297.4	4363.2	4366.0	4366.0	4397.5
15162.4	37.5°	9790.0	3528.3	3505.4	3765.6	4037.2	4185.9	4280.3	4286.0	4163.0	4171.6
15482.7	40°	9286.7	3382.5	3436.8	3711.3	3945.7	4088.7	4094.4	3774.2	3548.3	3542.6
15848.7	42.5°	8875.0	3353.9	3456.8	3705.5	3880.0	3885.7	3482.5	3233.8	3170.9	3173.7
16186.0	45°	8489.0	3345.3	3502.5	3705.5	3782.7	3356.7	3085.1	3019.3	3025.1	3047.9
16337.6	47.5°	8057.3	3311.0	3511.1	3654.1	3502.5	2985.0	2905.0	2876.4	2864.9	2870.7
16303.3	50°	7585.5	3188.0	3402.5	3551.2	3022.2	2824.9	2724.8	2716.3	2730.6	2739.1
16111.7	52.5°	7088.0	2987.9	3216.6	3365.3	2802.0	2684.8	2573.3	2593.3	2656.2	2676.2
15911.6	55°	6762.1	2753.4	2970.7	2993.6	2647.6	2553.3	2458.9	2504.7	2621.9	2659.1
15791.5	57.5°	6676.3	2504.7	2690.5	2664.8	2450.4	2438.9	2381.7	2421.8	2570.4	2624.8
15785.8	60°	6650.5	2281.7	2416.0	2396.0	2258.8	2313.1	2298.8	2318.8	2370.3	2387.4
15728.6	62.5°	6450.4	2104.4	2170.1	2141.6	2087.2	2181.6	2215.9	2173.0	2213.0	2233.1
15336.9	65°	5941.5	1961.4	1930.0	1910.0	1932.8	2018.6	2087.2	2001.5	2038.6	2095.8
13827.2	67.5°	5100.8	1767.0	1681.2	1704.1	1775.6	1821.3	1910.0	1812.7	1844.2	1941.4
11136.7	70°	4125.9	1521.1	1443.9	1509.7	1578.3	1672.6	1686.9	1621.2	1695.5	1804.2
6796.4	72.5°	2919.3	1272.4	1218.0	1352.4	1375.3	1498.2	1466.8	1435.3	1538.3	1575.4
3359.6	75°	2024.3	1026.5	995.0	1097.9	1180.9	1286.6	1263.8	1300.9	1518.2	1535.4
1678.4	77.5°	1280.9	797.7	777.7	843.5	957.8	1075.1	1112.2	1535.4	2593.3	2696.2
872.1	80°	743.4	594.7	571.8	623.3	723.4	832.0	1072.2	1884.2	1709.8	1689.8
391.7	82.5°	414.6	408.9	380.3	394.6	483.2	600.4	1515.4	1326.7	1077.9	1112.2
157.3	85°	194.4	240.2	205.9	197.3	271.6	703.4	1012.2	757.7	503.2	491.8
34.3	87.5°	51.5	45.7	45.7	51.5	114.4	606.2	403.2	323.1	191.6	185.8
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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