

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: P953275

Luminaire Tested: **GALN-SB6D-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953275
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-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60030 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

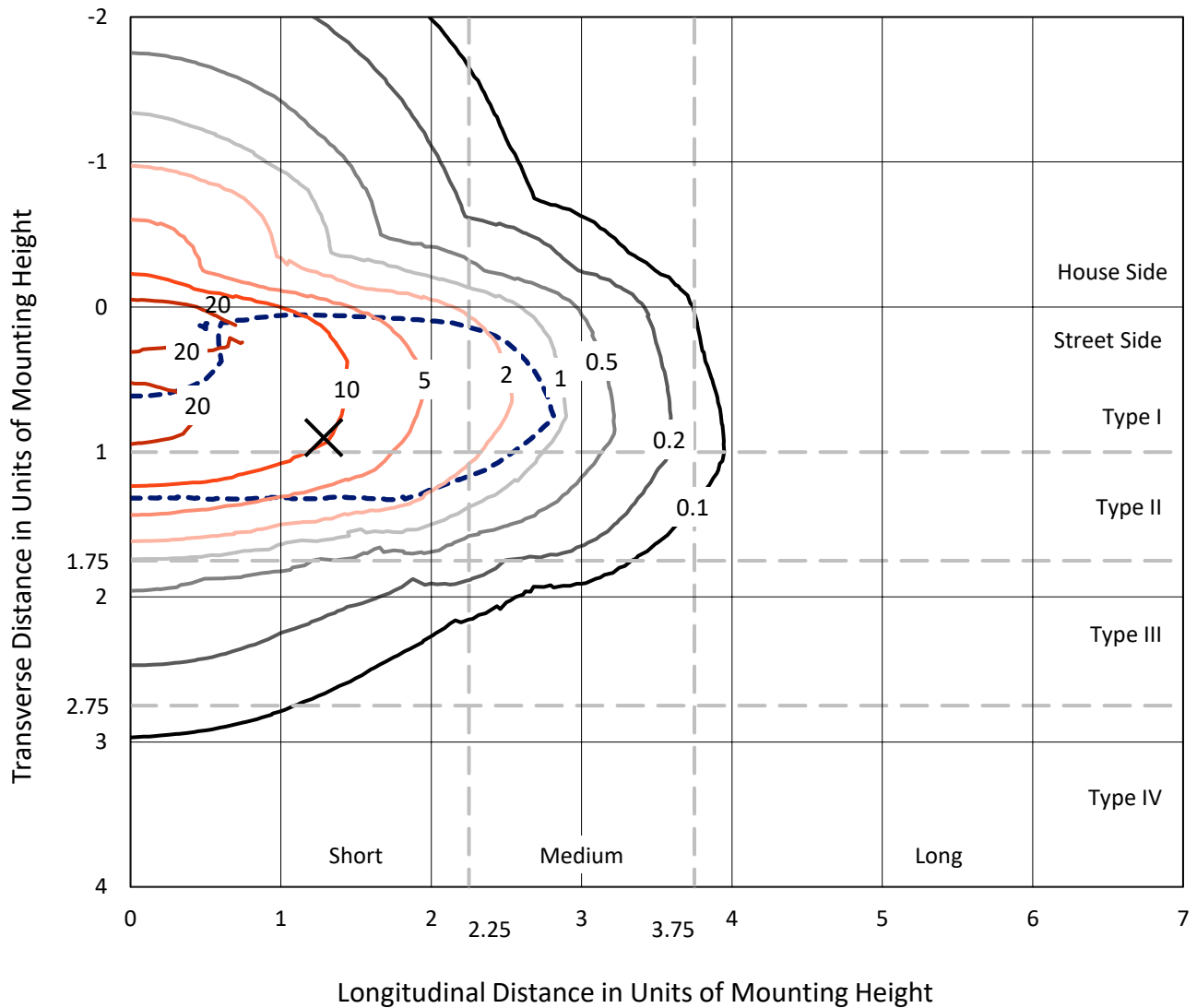
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

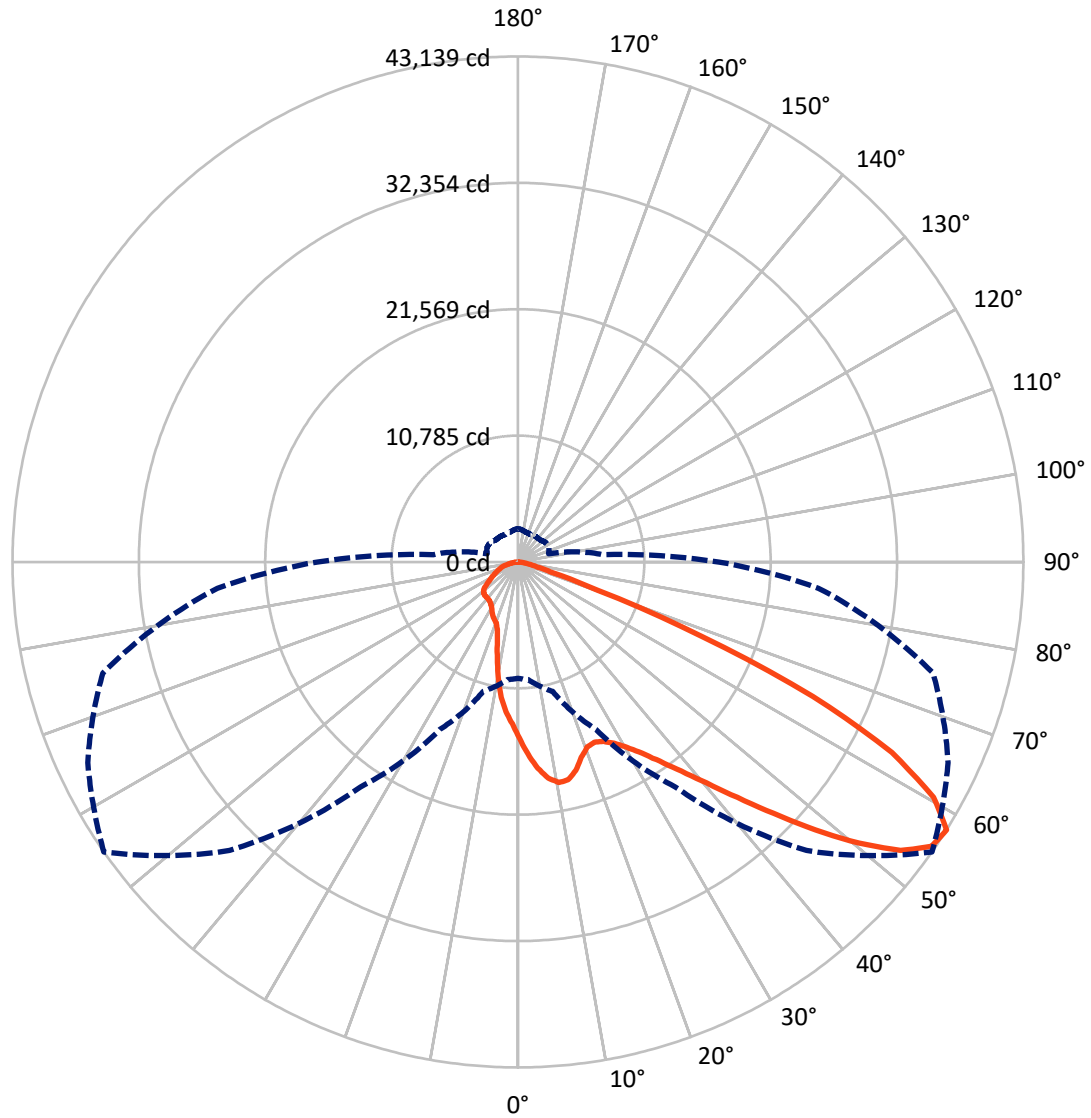
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.1 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	10862.1	0.0	10862.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	49167.9	0.0	49167.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	60030.0	0.0	60030.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1395.8	2.3
10°-20°	3523.0	5.9
20°-30°	5621.7	9.4
30°-40°	8900.5	14.8
40°-50°	13623.1	22.7
50°-60°	14591.7	24.3
60°-70°	9179.7	15.3
70°-80°	2714.6	4.5
80°-90°	480.0	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°	60030.0	100.0
0°-180°	60030.0	100.0

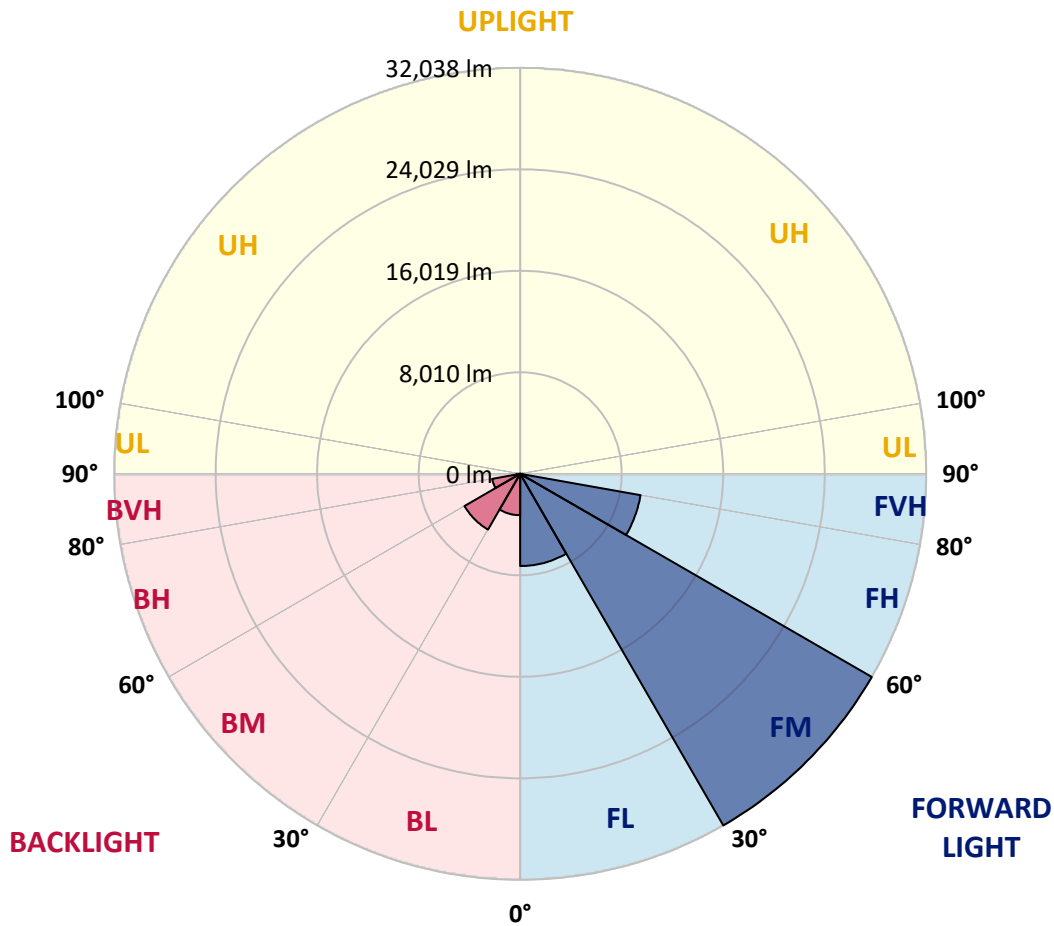


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7275.6	12.1			
FM (30°-60°)	32038.4	53.4			
FH (60°-80°)	9651.0	16.1			G4/12000
FVH (80°-90°)	202.8	0.3			G2/225
BL (0°-30°)	3264.8	5.4	B4/5000		
BM (30°-60°)	5076.9	8.5	B4/8500		
BH (60°-80°)	2243.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	277.2	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°	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6
2.5°	17257.3	17244.9	17313.2	17080.4	16922.2	16708.0	16425.6	16065.6	15677.7	15268.1
5°	18812.0	18703.4	18774.8	18601.0	18427.2	18104.5	17685.6	17099.0	16382.2	15566.0
7.5°	18566.9	18492.4	18675.5	18830.7	18961.0	18920.7	18613.4	17999.0	17074.2	15888.8
10°	16590.1	16506.3	16763.9	17300.8	18089.0	18774.8	19147.2	18765.5	17781.8	16242.5
12.5°	14846.1	14805.7	14976.4	15410.9	16286.0	17601.8	19078.9	19435.8	18517.2	16661.5
15°	14101.3	14051.6	14160.2	14380.6	14939.2	16165.0	18458.3	19895.1	19240.3	17145.6
17.5°	13936.8	13880.9	13927.5	14042.3	14402.3	15336.4	17521.1	20121.6	19994.4	17685.6
20°	14240.9	14194.4	14200.6	14194.4	14445.7	15187.4	16869.4	20034.7	20652.3	18182.1
22.5°	14976.4	14898.8	14901.9	14737.4	14874.0	15448.1	16698.7	19802.0	21238.8	18616.5
25°	16174.3	16034.6	16062.5	15643.6	15606.4	16031.5	16965.6	19622.0	21822.2	18964.1
27.5°	17812.8	17654.5	17570.7	16947.0	16649.1	16860.1	17508.7	19684.1	22374.6	19265.1
30°	19861.0	19668.6	19497.9	18613.4	18073.5	17995.9	18352.8	20093.7	23026.3	19581.7
32.5°	22371.5	22148.1	21837.7	20664.7	19904.4	19497.9	19445.1	20823.0	23789.7	19985.1
35°	25360.0	25068.2	24627.6	23110.1	22148.1	21316.4	20885.0	21875.0	24835.5	20593.3
37.5°	28438.4	28109.5	27706.0	25899.9	24717.6	23491.8	22641.5	23302.5	26228.9	21418.8
40°	31277.9	30908.6	30533.1	28925.6	27656.4	26179.2	24792.1	25108.6	27932.6	22405.6
42.5°	32953.7	32680.6	32537.8	31668.9	30688.3	29189.4	27467.1	27249.8	29847.3	23541.4
45°	32879.2	32767.5	33208.1	33568.1	33335.4	32503.7	30601.4	29617.6	31768.2	24525.2
47.5°	31122.7	31197.2	32181.0	34204.3	35094.9	35529.4	34170.2	31942.0	33437.8	25260.7
50°	26343.7	26405.8	28683.6	33046.8	35548.0	37996.5	37711.0	34210.5	34731.8	25710.6
52.5°	22560.8	22601.1	23578.7	29614.5	34052.2	39237.8	40901.2	36348.6	35678.3	25834.8
55°	16993.5	17133.2	18228.6	23234.2	30160.7	38254.1	42843.8	38552.0	36277.3	25847.2
57.5°	9927.4	10079.4	11432.5	15770.8	23442.1	34824.9	43138.6	40507.0	36683.8	25747.9
60°	4862.8	4928.0	5517.6	8288.8	14455.1	28218.1	40767.7	41453.5	36910.3	25695.1
62.5°	3277.1	3267.7	3292.6	4090.1	7122.0	18129.3	35827.3	39796.4	36789.3	25493.4
65°	2817.8	2783.6	2690.5	2870.5	3689.8	8291.9	27681.2	34849.8	35867.6	24987.6
67.5°	2436.1	2439.2	2442.3	2386.4	2634.7	3826.3	16915.9	27451.6	32559.6	22591.8
70°	2017.1	2045.1	2057.5	2057.5	2147.5	2510.5	7221.3	18815.2	25682.7	17713.5
72.5°	1837.1	1778.2	1784.4	1753.3	1753.3	1911.6	2907.8	10666.0	16180.5	9964.6
75°	1498.9	1536.1	1542.3	1520.6	1449.2	1458.5	1725.4	4474.9	6923.4	4133.6
77.5°	1294.1	1294.1	1306.5	1291.0	1235.1	1092.4	1151.3	1734.7	2355.4	1694.4
80°	1039.6	1036.5	1089.2	1120.3	1033.4	806.9	735.5	958.9	1045.8	744.8
82.5°	505.8	536.9	747.9	853.4	785.1	583.4	450.0	595.8	558.6	328.9
85°	294.8	279.3	335.2	474.8	450.0	322.7	217.2	310.3	291.7	167.6
87.5°	93.1	86.9	68.3	161.4	130.3	90.0	59.0	90.0	80.7	37.2
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°
15041.6	0°	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6	15041.6
15091.2	2.5°	14870.9	14504.7	14141.6	13809.6	13607.9	13477.5	13347.2	13201.3	13145.5	13061.7
15131.6	5°	14721.9	14014.4	13384.4	12841.3	12347.9	11960.0	11569.0	11252.5	11109.7	11205.9
15258.8	7.5°	14635.0	13611.0	12639.6	11643.5	10684.6	9918.1	9250.9	8782.3	8571.2	8624.0
15382.9	10°	14557.5	13154.8	11674.5	10101.2	8723.3	7773.7	7091.0	6734.1	6600.7	6628.6
15550.5	12.5°	14486.1	12642.7	10510.8	8440.9	6976.2	6349.3	6153.8	6156.9	6181.7	6200.3
15817.4	15°	14473.7	12025.2	9210.5	6988.6	6032.8	5992.4	6203.4	6336.9	6408.3	6430.0
16040.8	17.5°	14455.1	11286.6	7885.4	5998.6	5803.1	6076.2	6271.7	6358.6	6414.5	6417.6
16258.1	20°	14380.6	10349.4	6662.7	5526.9	5753.5	5989.3	6110.3	6178.6	6225.2	6240.7
16422.5	22.5°	14150.9	9306.7	5710.0	5315.9	5554.9	5744.2	5886.9	5964.5	5992.4	6011.0
16453.6	25°	13738.2	8139.9	5052.1	5114.2	5278.7	5517.6	5632.4	5648.0	5638.6	5666.6
16376.0	27.5°	13198.2	6889.3	4642.5	4841.1	5052.1	5256.9	5319.0	5309.7	5291.1	5322.1
16242.5	30°	12546.5	5765.9	4381.8	4533.9	4822.5	5008.7	5064.5	5042.8	5005.6	5039.7
16174.3	32.5°	11857.6	4847.3	4167.7	4319.8	4633.2	4816.3	4872.1	4850.4	4822.5	4850.4
16251.8	35°	11215.2	4204.9	3969.1	4177.0	4484.2	4664.2	4735.6	4738.7	4738.7	4772.8
16456.7	37.5°	10625.6	3829.4	3804.6	4087.0	4381.8	4543.2	4645.6	4651.8	4518.4	4527.7
16804.2	40°	10079.4	3671.2	3730.1	4028.0	4282.5	4437.7	4443.9	4096.3	3851.2	3845.0
17201.4	42.5°	9632.6	3640.1	3751.9	4021.8	4211.1	4217.3	3779.8	3509.8	3441.5	3444.6
17567.6	45°	9213.6	3630.8	3801.5	4021.8	4105.6	3643.2	3348.4	3277.1	3283.3	3308.1
17732.1	47.5°	8745.0	3593.6	3810.8	3966.0	3801.5	3239.8	3152.9	3121.9	3109.5	3115.7
17694.9	50°	8233.0	3460.2	3692.9	3854.3	3280.2	3066.0	2957.4	2948.1	2963.6	2972.9
17486.9	52.5°	7693.0	3242.9	3491.2	3652.6	3041.2	2914.0	2792.9	2814.7	2882.9	2904.7
17269.7	55°	7339.2	2988.5	3224.3	3249.1	2873.6	2771.2	2668.8	2718.5	2845.7	2886.0
17139.4	57.5°	7246.1	2718.5	2920.2	2892.3	2659.5	2647.1	2585.0	2628.5	2789.8	2848.8
17133.2	60°	7218.2	2476.4	2622.3	2600.5	2451.6	2510.5	2495.0	2516.8	2572.6	2591.2
17071.1	62.5°	7001.0	2284.0	2355.4	2324.4	2265.4	2367.8	2405.0	2358.5	2401.9	2423.7
16646.0	65°	6448.6	2128.8	2094.7	2073.0	2097.8	2190.9	2265.4	2172.3	2212.6	2274.7
15007.4	67.5°	5536.2	1917.8	1824.7	1849.6	1927.1	1976.8	2073.0	1967.5	2001.6	2107.1
12087.3	70°	4478.0	1650.9	1567.2	1638.5	1713.0	1815.4	1830.9	1759.6	1840.2	1958.2
7376.5	72.5°	3168.4	1381.0	1322.0	1467.8	1492.7	1626.1	1592.0	1557.8	1669.6	1709.9
3646.3	75°	2197.1	1114.1	1079.9	1191.7	1281.7	1396.5	1371.6	1412.0	1647.8	1666.5
1821.6	77.5°	1390.3	865.8	844.1	915.5	1039.6	1166.8	1207.2	1666.5	2814.7	2926.4
946.5	80°	806.9	645.5	620.7	676.5	785.1	903.1	1163.7	2045.1	1855.8	1834.0
425.1	82.5°	450.0	443.8	412.7	428.3	524.5	651.7	1644.7	1439.9	1169.9	1207.2
170.7	85°	211.0	260.7	223.4	214.1	294.8	763.4	1098.6	822.4	546.2	533.8
37.2	87.5°	55.9	49.7	49.7	55.9	124.1	657.9	437.6	350.7	207.9	201.7
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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