

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: P951490

Luminaire Tested: **GALN-SB5C-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951490
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-SB5C-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36802 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

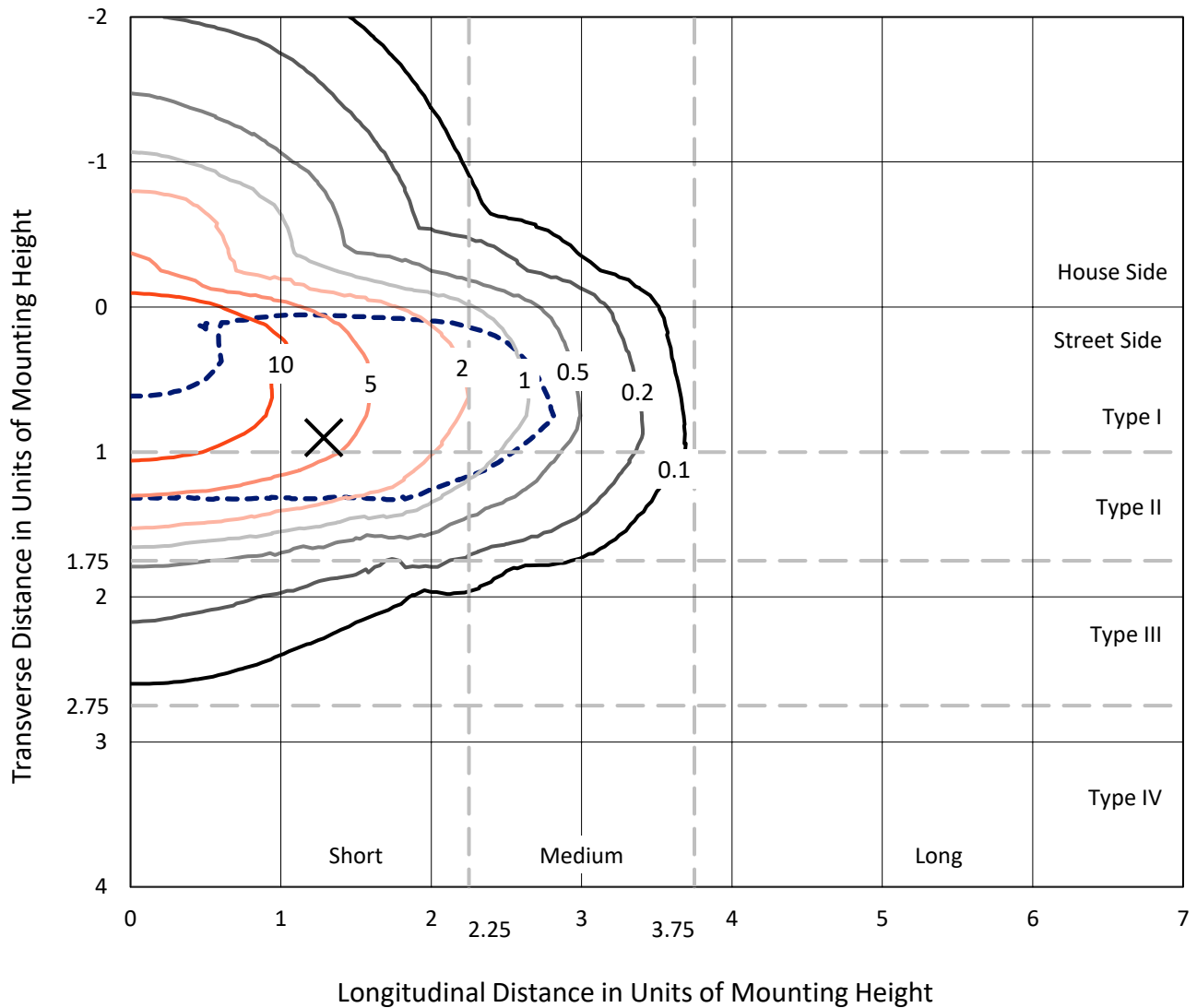
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

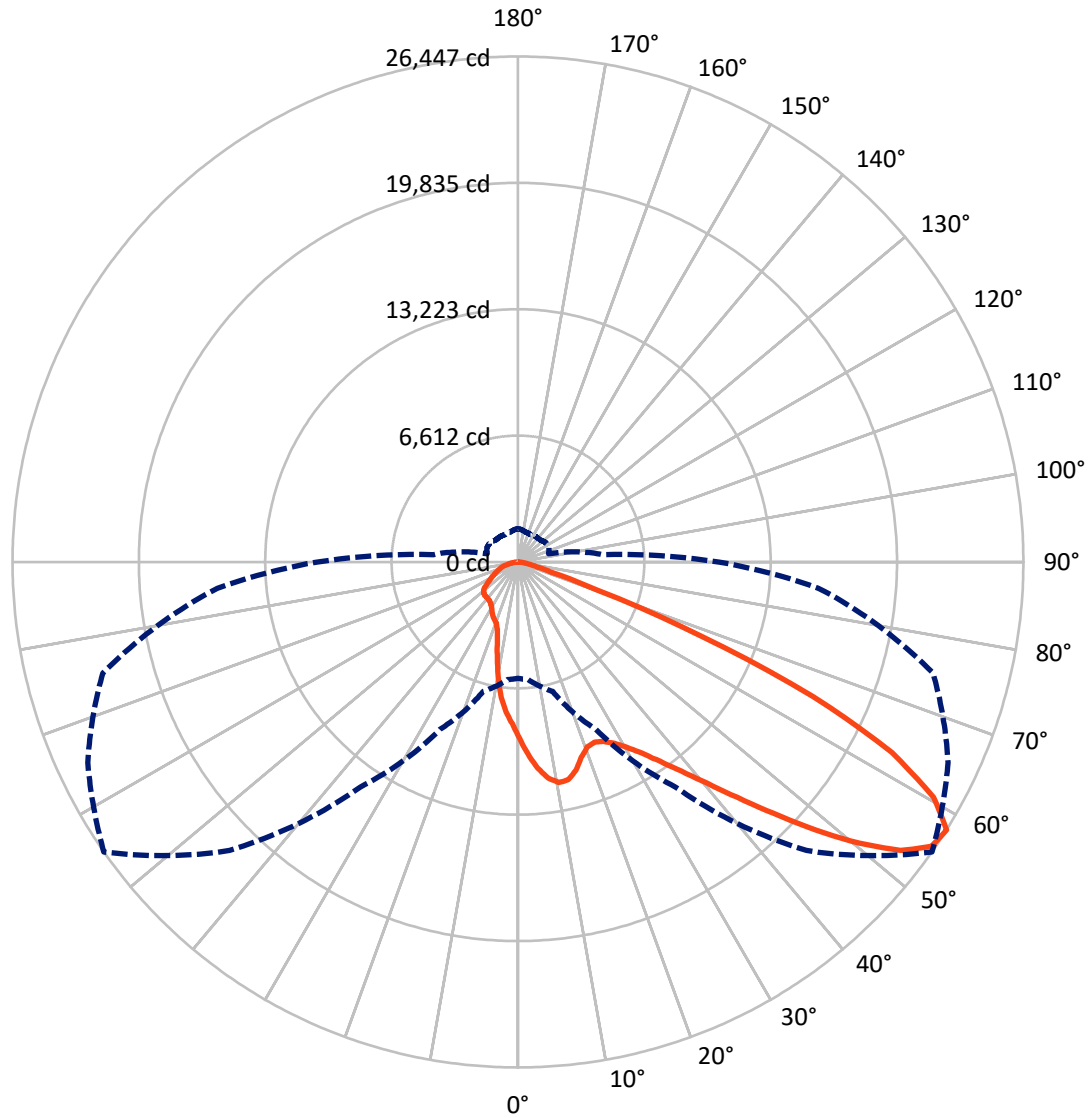
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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	6659.1	0.0	6659.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30142.9	0.0	30142.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	36802.0	0.0	36802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.7	2.3
10°-20°	2159.8	5.9
20°-30°	3446.4	9.4
30°-40°	5456.5	14.8
40°-50°	8351.8	22.7
50°-60°	8945.6	24.3
60°-70°	5627.7	15.3
70°-80°	1664.2	4.5
80°-90°	294.3	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°	36802.0	100.0
0°-180°	36802.0	100.0

Coefficient of Utilization



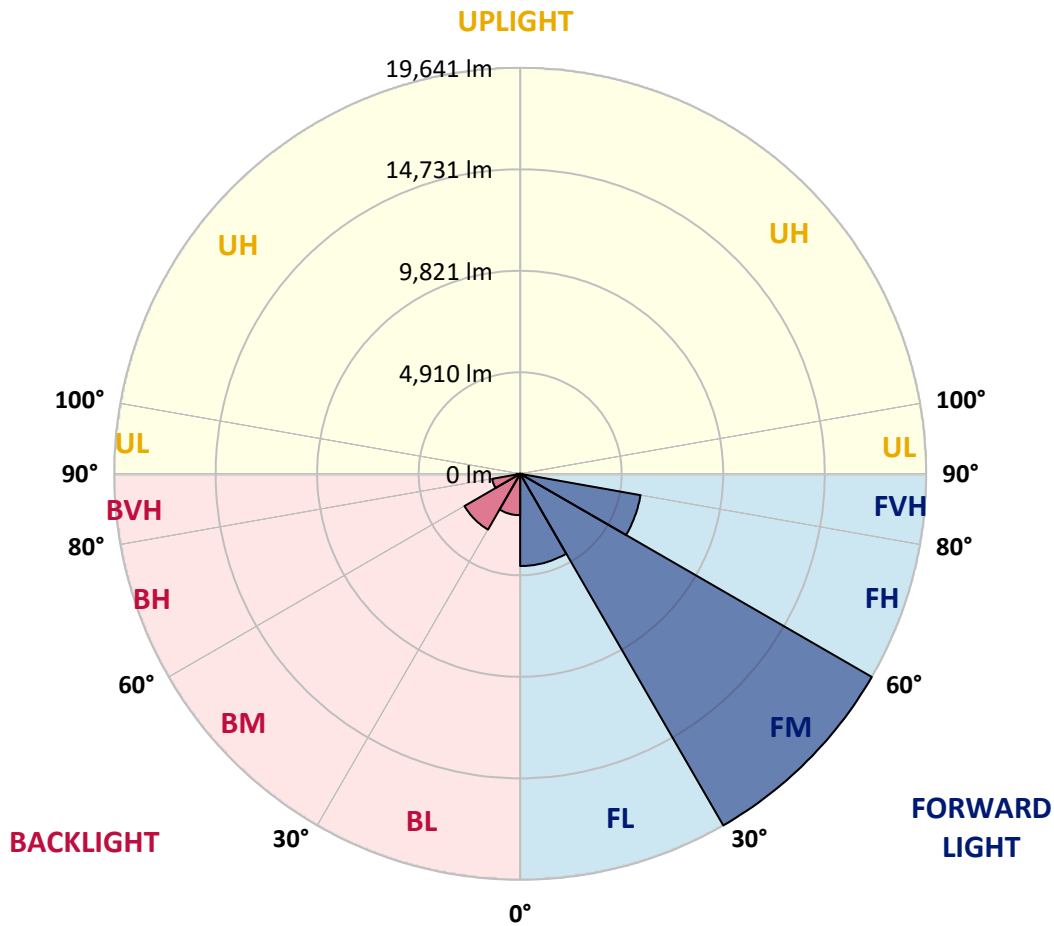
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4460.4	12.1			
FM (30°-60°)	19641.5	53.4			
FH (60°-80°)	5916.6	16.1			G3/7500
FVH (80°-90°)	124.3	0.3			G2/225
BL (0°-30°)	2001.5	5.4	B3/2500		
BM (30°-60°)	3112.4	8.5	B3/5000		
BH (60°-80°)	1375.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	169.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4
2.5°	10579.8	10572.2	10614.0	10471.3	10374.3	10243.0	10069.9	9849.2	9611.4	9360.3
5°	11532.9	11466.3	11510.1	11403.5	11297.0	11099.1	10842.3	10482.7	10043.3	9542.9
7.5°	11382.6	11337.0	11449.2	11544.3	11624.2	11599.5	11411.2	11034.5	10467.5	9740.8
10°	10170.7	10119.4	10277.3	10606.4	11089.6	11510.1	11738.4	11504.4	10901.3	9957.7
12.5°	9101.5	9076.8	9181.4	9447.8	9984.3	10790.9	11696.5	11915.3	11352.2	10214.5
15°	8644.9	8614.5	8681.1	8816.2	9158.6	9910.1	11316.0	12196.9	11795.5	10511.3
17.5°	8544.1	8509.9	8538.4	8608.8	8829.5	9402.1	10741.5	12335.8	12257.8	10842.3
20°	8730.5	8702.0	8705.8	8702.0	8856.1	9310.8	10342.0	12282.5	12661.1	11146.7
22.5°	9181.4	9133.9	9135.8	9034.9	9118.7	9470.6	10237.3	12139.8	13020.7	11413.1
25°	9915.8	9830.2	9847.3	9590.5	9567.6	9828.3	10400.9	12029.5	13378.3	11626.1
27.5°	10920.3	10823.3	10771.9	10389.5	10206.9	10336.2	10733.9	12067.5	13717.0	11810.7
30°	12176.0	12058.0	11953.4	11411.2	11080.1	11032.6	11251.3	12318.6	14116.5	12004.7
32.5°	13715.1	13578.1	13387.8	12668.7	12202.6	11953.4	11921.0	12765.7	14584.5	12252.1
35°	15547.2	15368.3	15098.2	14167.9	13578.1	13068.2	12803.8	13410.7	15225.7	12624.9
37.5°	17434.5	17232.8	16985.5	15878.2	15153.4	14401.9	13880.6	14285.8	16079.9	13131.0
40°	19175.2	18948.8	18718.6	17733.1	16955.0	16049.4	15199.0	15393.1	17124.3	13736.0
42.5°	20202.6	20035.2	19947.6	19414.9	18813.8	17894.9	16839.0	16705.8	18298.2	14432.3
45°	20156.9	20088.4	20358.6	20579.3	20436.6	19926.7	18760.5	18157.4	19475.8	15035.4
47.5°	19080.1	19125.8	19728.9	20969.3	21515.3	21781.6	20948.4	19582.4	20499.4	15486.3
50°	16150.3	16188.3	17584.7	20259.7	21793.1	23294.1	23119.1	20973.1	21292.7	15762.2
52.5°	13831.1	13855.9	14455.1	18155.5	20876.1	24055.1	25074.9	22283.9	21873.0	15838.3
55°	10418.1	10503.7	11175.2	14244.0	18490.3	23452.0	26265.8	23634.7	22240.2	15845.9
57.5°	6086.1	6179.3	7008.8	9668.5	14371.4	21349.8	26446.6	24833.2	22489.4	15785.0
60°	2981.2	3021.2	3382.6	5081.6	8861.8	17299.4	24993.1	25413.5	22628.3	15752.6
62.5°	2009.0	2003.3	2018.5	2507.5	4366.2	11114.4	21964.3	24397.6	22554.1	15629.0
65°	1727.5	1706.5	1649.5	1759.8	2262.1	5083.5	16970.2	21365.0	21989.0	15318.9
67.5°	1493.5	1495.4	1497.3	1463.0	1615.2	2345.8	10370.5	16829.5	19961.0	13850.2
70°	1236.6	1253.7	1261.4	1261.4	1316.5	1539.1	4427.1	11534.8	15745.0	10859.4
72.5°	1126.3	1090.1	1093.9	1074.9	1074.9	1171.9	1782.6	6538.9	9919.6	6108.9
75°	918.9	941.7	945.5	932.2	888.5	894.2	1057.8	2743.4	4244.5	2534.1
77.5°	793.3	793.3	800.9	791.4	757.2	669.7	705.8	1063.5	1444.0	1038.8
80°	637.3	635.4	667.8	686.8	633.5	494.6	450.9	587.9	641.1	456.6
82.5°	310.1	329.1	458.5	523.2	481.3	357.7	275.9	365.3	342.4	201.7
85°	180.7	171.2	205.5	291.1	275.9	197.9	133.2	190.2	178.8	102.7
87.5°	57.1	53.3	41.9	98.9	79.9	55.2	36.1	55.2	49.5	22.8
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°
9221.4	0°	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4	9221.4
9251.8	2.5°	9116.7	8892.3	8669.7	8466.1	8342.4	8262.5	8182.6	8093.2	8059.0	8007.6
9276.6	5°	9025.4	8591.7	8205.5	7872.5	7570.0	7332.2	7092.5	6898.4	6810.9	6869.9
9354.6	7.5°	8972.2	8344.3	7748.9	7138.2	6550.3	6080.4	5671.3	5384.1	5254.7	5287.0
9430.7	10°	8924.6	8064.7	7157.2	6192.6	5347.9	4765.7	4347.2	4128.4	4046.6	4063.7
9533.4	12.5°	8880.8	7750.8	6443.7	5174.8	4276.8	3892.5	3772.6	3774.5	3789.8	3801.2
9697.0	15°	8873.2	7372.2	5646.6	4284.4	3698.4	3673.7	3803.1	3884.9	3928.6	3942.0
9834.0	17.5°	8861.8	6919.4	4834.2	3677.5	3557.7	3725.1	3844.9	3898.2	3932.5	3934.4
9967.2	20°	8816.2	6344.8	4084.7	3388.3	3527.2	3671.8	3746.0	3787.9	3816.4	3825.9
10068.0	22.5°	8675.4	5705.6	3500.6	3259.0	3405.5	3521.5	3609.0	3656.6	3673.7	3685.1
10087.0	25°	8422.3	4990.2	3097.3	3135.3	3236.1	3382.6	3453.0	3462.5	3456.8	3474.0
10039.5	27.5°	8091.3	4223.5	2846.1	2967.9	3097.3	3222.8	3260.9	3255.2	3243.8	3262.8
9957.7	30°	7691.8	3534.8	2686.3	2779.5	2956.5	3070.6	3104.9	3091.6	3068.7	3089.6
9915.8	32.5°	7269.4	2971.7	2555.0	2648.3	2840.4	2952.7	2986.9	2973.6	2956.5	2973.6
9963.4	35°	6875.6	2577.9	2433.3	2560.8	2749.1	2859.4	2903.2	2905.1	2905.1	2926.0
10088.9	37.5°	6514.1	2347.7	2332.5	2505.6	2686.3	2785.3	2848.0	2851.8	2770.0	2775.7
10302.0	40°	6179.3	2250.6	2286.8	2469.4	2625.4	2720.6	2724.4	2511.3	2361.0	2357.2
10545.5	42.5°	5905.3	2231.6	2300.1	2465.6	2581.7	2585.5	2317.2	2151.7	2109.9	2111.8
10770.0	45°	5648.5	2225.9	2330.6	2465.6	2517.0	2233.5	2052.8	2009.0	2012.8	2028.1
10870.8	47.5°	5361.2	2203.1	2336.3	2431.4	2330.6	1986.2	1932.9	1913.9	1906.3	1910.1
10848.0	50°	5047.3	2121.3	2264.0	2362.9	2010.9	1879.7	1813.1	1807.4	1816.9	1822.6
10720.6	52.5°	4716.3	1988.1	2140.3	2239.2	1864.4	1786.4	1712.2	1725.6	1767.4	1780.7
10587.4	55°	4499.4	1832.1	1976.7	1991.9	1761.7	1698.9	1636.1	1666.6	1744.6	1769.3
10507.5	57.5°	4442.3	1666.6	1790.2	1773.1	1630.4	1622.8	1584.8	1611.4	1710.3	1746.5
10503.7	60°	4425.2	1518.2	1607.6	1594.3	1503.0	1539.1	1529.6	1542.9	1577.2	1588.6
10465.6	62.5°	4292.0	1400.2	1444.0	1425.0	1388.8	1451.6	1474.4	1445.9	1472.5	1485.8
10205.0	65°	3953.4	1305.1	1284.2	1270.9	1286.1	1343.2	1388.8	1331.7	1356.5	1394.5
9200.5	67.5°	3394.0	1175.7	1118.7	1133.9	1181.4	1211.9	1270.9	1206.2	1227.1	1291.8
7410.2	70°	2745.3	1012.1	960.8	1004.5	1050.2	1113.0	1122.5	1078.7	1128.2	1200.5
4522.2	72.5°	1942.4	846.6	810.5	899.9	915.1	996.9	976.0	955.1	1023.5	1048.3
2235.4	75°	1347.0	683.0	662.1	730.6	785.7	856.1	840.9	865.6	1010.2	1021.6
1116.8	77.5°	852.3	530.8	517.5	561.2	637.3	715.3	740.1	1021.6	1725.6	1794.1
580.3	80°	494.6	395.7	380.5	414.7	481.3	553.6	713.4	1253.7	1137.7	1124.4
260.6	82.5°	275.9	272.1	253.0	262.5	321.5	399.5	1008.3	882.8	717.2	740.1
104.6	85°	129.4	159.8	137.0	131.3	180.7	468.0	673.5	504.2	334.8	327.2
22.8	87.5°	34.2	30.4	30.4	34.2	76.1	403.3	268.3	215.0	127.5	123.7
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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