

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: P953296

Luminaire Tested: **GALN-SB6D-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953296
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-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38201 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

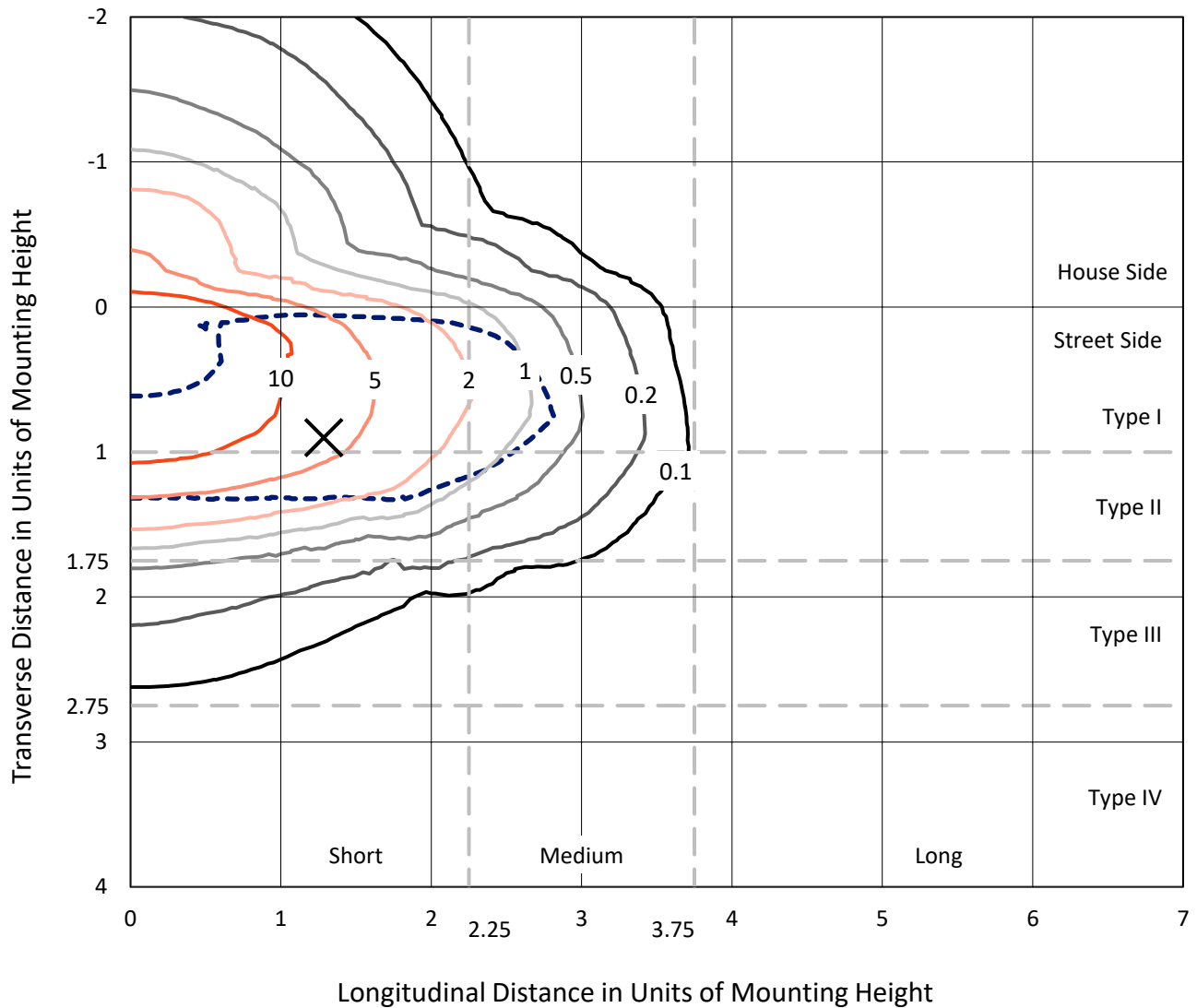
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953296
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Iso-Footcandle Lines of Horizontal Illumination

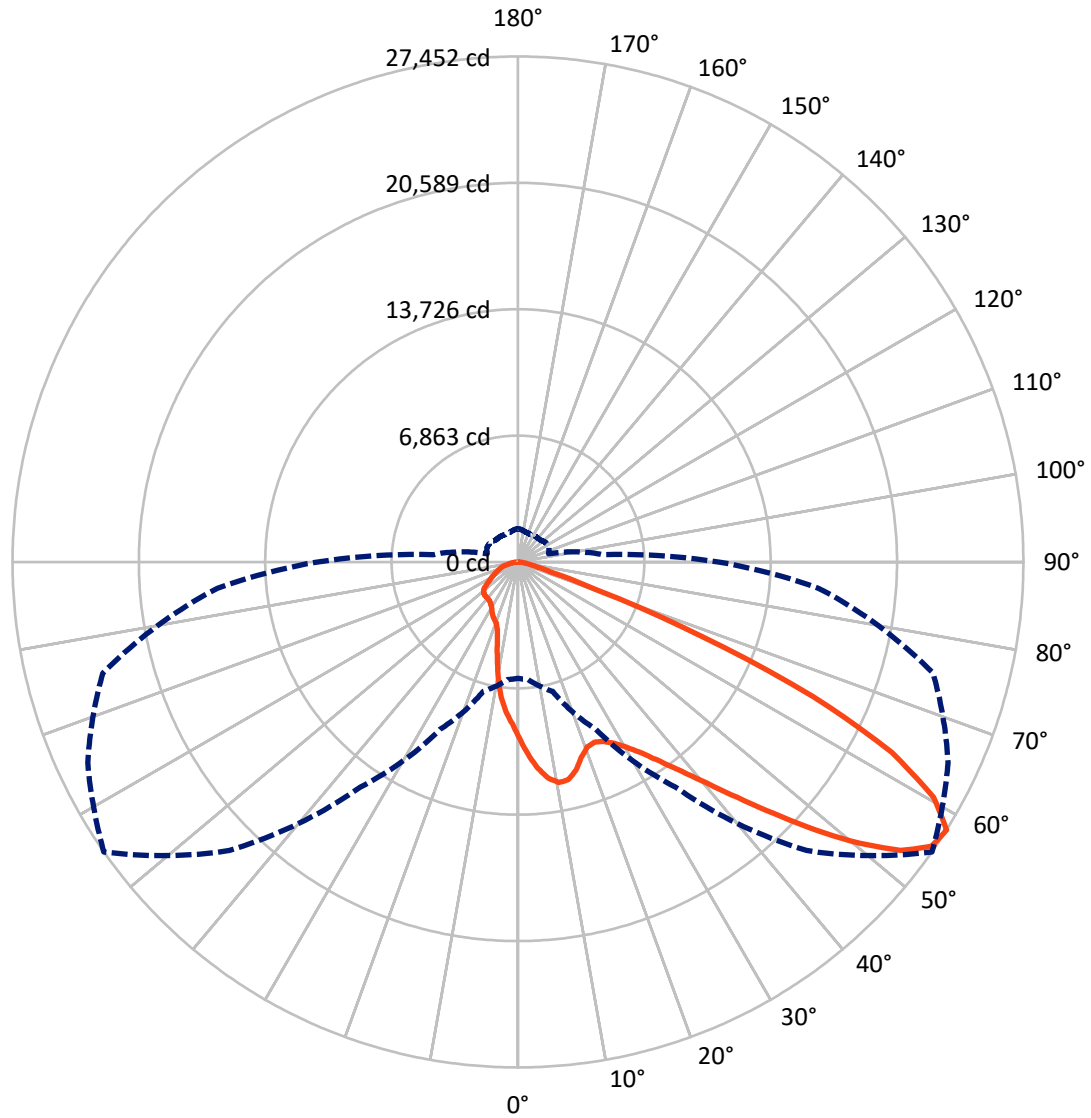
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB6D-927-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	6912.3	0.0	6912.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31288.7	0.0	31288.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	38201.0	0.0	38201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	888.2	2.3
10°-20°	2241.9	5.9
20°-30°	3577.4	9.4
30°-40°	5664.0	14.8
40°-50°	8669.3	22.7
50°-60°	9285.6	24.3
60°-70°	5841.6	15.3
70°-80°	1727.5	4.5
80°-90°	305.4	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°	38201.0	100.0
0°-180°	38201.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953296

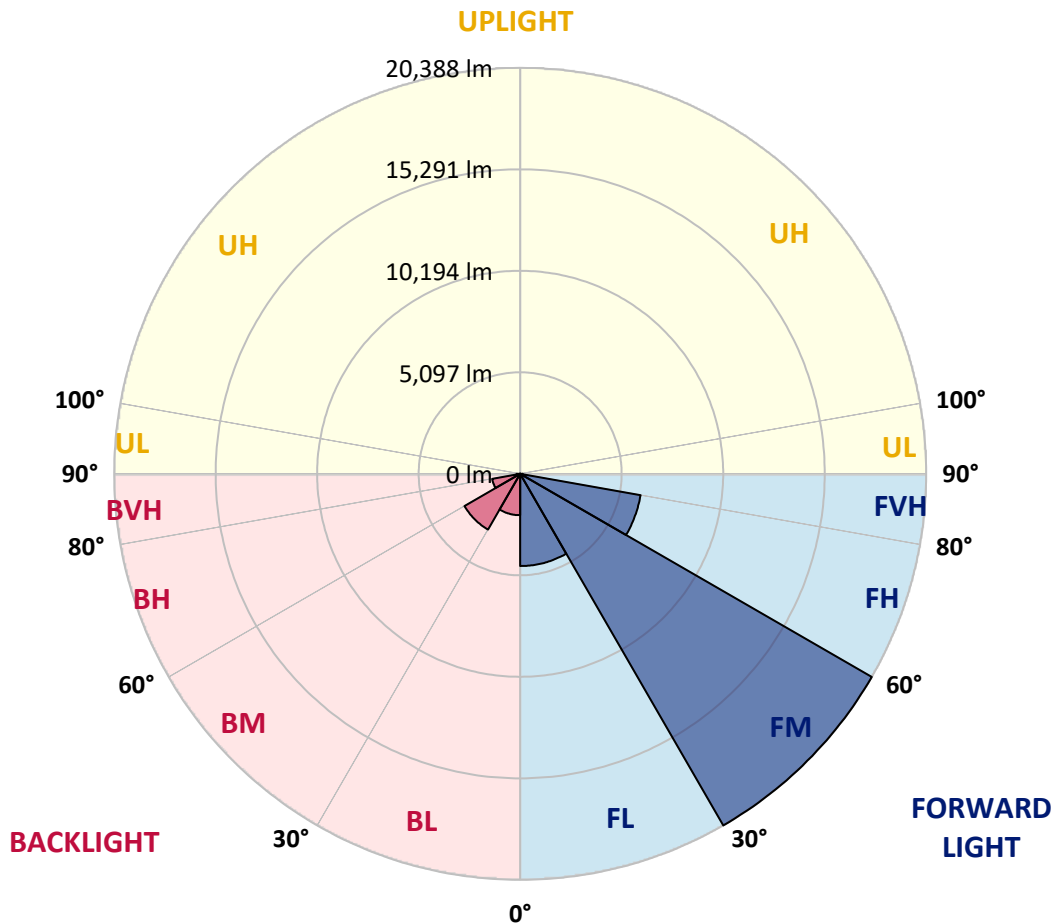
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4630.0	12.1			
FM (30°-60°)	20388.2	53.4			
FH (60°-80°)	6141.6	16.1			G3/7500
FVH (80°-90°)	129.0	0.3			G2/225
BL (0°-30°)	2077.6	5.4	B3/2500		
BM (30°-60°)	3230.7	8.5	B3/5000		
BH (60°-80°)	1427.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	176.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P953296
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9
2.5°	10981.9	10974.0	11017.5	10869.4	10768.7	10632.4	10452.7	10223.6	9976.8	9716.1
5°	11971.3	11902.2	11947.6	11837.0	11726.5	11521.1	11254.5	10881.2	10425.1	9905.7
7.5°	11815.3	11767.9	11884.4	11983.2	12066.1	12040.4	11844.9	11453.9	10865.4	10111.1
10°	10557.4	10504.0	10668.0	11009.6	11511.2	11947.6	12184.6	11941.7	11315.7	10336.2
12.5°	9447.5	9421.8	9530.5	9806.9	10363.8	11201.2	12141.2	12368.3	11783.7	10602.8
15°	8973.6	8942.0	9011.1	9151.3	9506.8	10286.8	11746.2	12660.5	12243.9	10910.9
17.5°	8868.9	8833.3	8863.0	8936.0	9165.1	9759.5	11149.8	12804.7	12723.7	11254.5
20°	9062.4	9032.8	9036.8	9032.8	9192.8	9664.7	10735.1	12749.4	13142.4	11570.4
22.5°	9530.5	9481.1	9483.1	9378.4	9465.3	9830.6	10626.5	12601.3	13515.6	11846.9
25°	10292.7	10203.9	10221.6	9955.0	9931.3	10201.9	10796.3	12486.8	13886.9	12068.1
27.5°	11335.4	11234.7	11181.4	10784.5	10594.9	10729.2	11141.9	12526.3	14238.4	12259.7
30°	12638.8	12516.4	12407.8	11844.9	11501.3	11452.0	11679.1	12786.9	14653.1	12461.1
32.5°	14236.4	14094.3	13896.8	13150.3	12666.5	12407.8	12374.2	13251.0	15138.9	12717.8
35°	16138.2	15952.6	15672.1	14706.5	14094.3	13565.0	13290.5	13920.5	15804.4	13104.9
37.5°	18097.2	17887.9	17631.2	16481.8	15729.4	14949.4	14408.3	14828.9	16691.1	13630.2
40°	19904.2	19669.2	19430.2	18407.3	17599.6	16659.5	15776.8	15978.2	17775.3	14258.2
42.5°	20970.6	20796.8	20705.9	20153.0	19529.0	18575.1	17479.1	17340.9	18993.8	14981.0
45°	20923.2	20852.1	21132.5	21361.6	21213.5	20684.2	19473.7	18847.6	20216.2	15607.0
47.5°	19805.4	19852.8	20478.8	21766.4	22333.2	22609.7	21744.7	20326.8	21278.6	16075.0
50°	16764.2	16803.7	18253.2	21029.8	22621.5	24179.6	23998.0	21770.4	22102.1	16361.3
52.5°	14356.9	14382.6	15004.6	18845.7	21669.7	24969.6	26028.1	23131.0	22704.5	16440.3
55°	10814.1	10903.0	11600.1	14785.4	19193.2	24343.6	27264.3	24533.1	23085.6	16448.2
57.5°	6317.4	6414.2	7275.2	10036.0	14917.8	22161.4	27451.9	25777.3	23344.3	16385.0
60°	3094.5	3136.0	3511.2	5274.7	9198.7	17957.0	25943.2	26379.6	23488.5	16351.5
62.5°	2085.4	2079.5	2095.3	2602.8	4532.2	11536.9	22799.2	25325.0	23411.4	16223.1
65°	1793.1	1771.4	1712.2	1826.7	2348.1	5276.7	17615.4	22177.2	22824.9	15901.2
67.5°	1550.2	1552.2	1554.2	1518.6	1676.6	2434.9	10764.7	17469.2	20719.8	14376.7
70°	1283.6	1301.4	1309.3	1309.3	1366.6	1597.6	4595.4	11973.3	16343.6	11272.2
72.5°	1169.1	1131.6	1135.5	1115.8	1115.8	1216.5	1850.4	6787.4	10296.7	6341.1
75°	953.8	977.5	981.5	967.7	922.2	928.2	1098.0	2847.7	4405.8	2630.5
77.5°	823.5	823.5	831.4	821.5	786.0	695.1	732.7	1103.9	1498.9	1078.2
80°	661.6	659.6	693.2	712.9	657.6	513.5	468.0	610.2	665.5	474.0
82.5°	321.9	341.6	475.9	543.1	499.6	371.3	286.3	379.2	355.5	209.3
85°	187.6	177.7	213.3	302.1	286.3	205.4	138.2	197.5	185.6	106.6
87.5°	59.2	55.3	43.4	102.7	82.9	57.3	37.5	57.3	51.3	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953296
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
9571.9	0°	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9	9571.9
9603.5	2.5°	9463.3	9230.3	8999.2	8787.9	8659.6	8576.6	8493.7	8400.9	8365.3	8312.0
9629.2	5°	9368.5	8918.3	8517.4	8171.8	7857.8	7610.9	7362.1	7160.7	7069.8	7131.1
9710.2	7.5°	9313.2	8661.5	8043.4	7409.5	6799.3	6311.5	5886.9	5588.7	5454.4	5488.0
9789.2	10°	9263.9	8371.2	7429.3	6428.0	5551.2	4946.9	4512.5	4285.3	4200.4	4218.2
9895.8	12.5°	9218.4	8045.4	6688.7	5371.5	4439.4	4040.5	3916.1	3918.0	3933.8	3945.7
10065.6	15°	9210.5	7652.4	5861.3	4447.3	3839.0	3813.4	3947.7	4032.6	4078.0	4091.8
10207.8	17.5°	9198.7	7182.4	5018.0	3817.3	3692.9	3866.7	3991.1	4046.4	4081.9	4083.9
10346.1	20°	9151.3	6586.0	4239.9	3517.1	3661.3	3811.4	3888.4	3931.9	3961.5	3971.4
10450.7	22.5°	9005.2	5922.5	3633.7	3382.9	3534.9	3655.4	3746.2	3795.6	3813.4	3825.2
10470.5	25°	8742.5	5179.9	3215.0	3254.5	3359.2	3511.2	3584.3	3594.2	3588.2	3606.0
10421.1	27.5°	8398.9	4384.1	2954.3	3080.7	3215.0	3345.3	3384.8	3378.9	3367.1	3386.8
10336.2	30°	7984.2	3669.2	2788.4	2885.2	3068.9	3187.4	3222.9	3209.1	3185.4	3207.1
10292.7	32.5°	7545.8	3084.7	2652.2	2748.9	2948.4	3064.9	3100.5	3086.6	3068.9	3086.6
10342.1	35°	7137.0	2675.9	2525.8	2658.1	2853.6	2968.1	3013.6	3015.5	3015.5	3037.3
10472.4	37.5°	6761.8	2436.9	2421.1	2600.8	2788.4	2891.1	2956.3	2960.2	2875.3	2881.3
10693.6	40°	6414.2	2336.2	2373.7	2563.3	2725.2	2824.0	2827.9	2606.8	2450.7	2446.8
10946.4	42.5°	6129.8	2316.5	2387.6	2559.4	2679.8	2683.8	2405.3	2233.5	2190.1	2192.0
11179.4	45°	5863.2	2310.5	2419.1	2559.4	2612.7	2318.4	2130.8	2085.4	2089.4	2105.2
11284.1	47.5°	5565.0	2286.8	2425.1	2523.8	2419.1	2061.7	2006.4	1986.7	1978.8	1982.7
11260.4	50°	5239.2	2201.9	2350.0	2452.7	2087.4	1951.1	1882.0	1876.1	1885.9	1891.9
11128.1	52.5°	4895.6	2063.7	2221.7	2324.4	1935.3	1854.4	1777.3	1791.2	1834.6	1848.4
10989.8	55°	4670.4	1901.7	2051.8	2067.6	1828.7	1763.5	1698.3	1729.9	1810.9	1836.6
10906.9	57.5°	4611.2	1729.9	1858.3	1840.5	1692.4	1684.5	1645.0	1672.7	1775.4	1812.9
10903.0	60°	4593.4	1575.9	1668.7	1654.9	1560.1	1597.6	1587.8	1601.6	1637.1	1649.0
10863.5	62.5°	4455.2	1453.5	1498.9	1479.1	1441.6	1506.8	1530.5	1500.9	1528.5	1542.3
10592.9	65°	4103.7	1354.7	1333.0	1319.2	1335.0	1394.2	1441.6	1382.4	1408.0	1447.5
9550.2	67.5°	3523.1	1220.4	1161.2	1177.0	1226.4	1258.0	1319.2	1252.0	1273.8	1340.9
7691.9	70°	2849.7	1050.6	997.3	1042.7	1090.1	1155.3	1165.1	1119.7	1171.1	1246.1
4694.1	72.5°	2016.3	878.8	841.3	934.1	949.9	1034.8	1013.1	991.4	1062.5	1088.1
2320.4	75°	1398.2	709.0	687.2	758.3	815.6	888.7	872.9	898.5	1048.6	1060.5
1159.2	77.5°	884.7	551.0	537.1	582.6	661.6	742.5	768.2	1060.5	1791.2	1862.3
602.3	80°	513.5	410.8	395.0	430.5	499.6	574.7	740.6	1301.4	1180.9	1167.1
270.5	82.5°	286.3	282.4	262.7	272.5	333.7	414.7	1046.7	916.3	744.5	768.2
108.6	85°	134.3	165.9	142.2	136.3	187.6	485.8	699.1	523.3	347.6	339.7
23.7	87.5°	35.5	31.6	31.6	35.5	79.0	418.7	278.4	223.2	132.3	128.4
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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