

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: P955354

Luminaire Tested: **GALN-SB8B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955354
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-SB8B-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41611 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

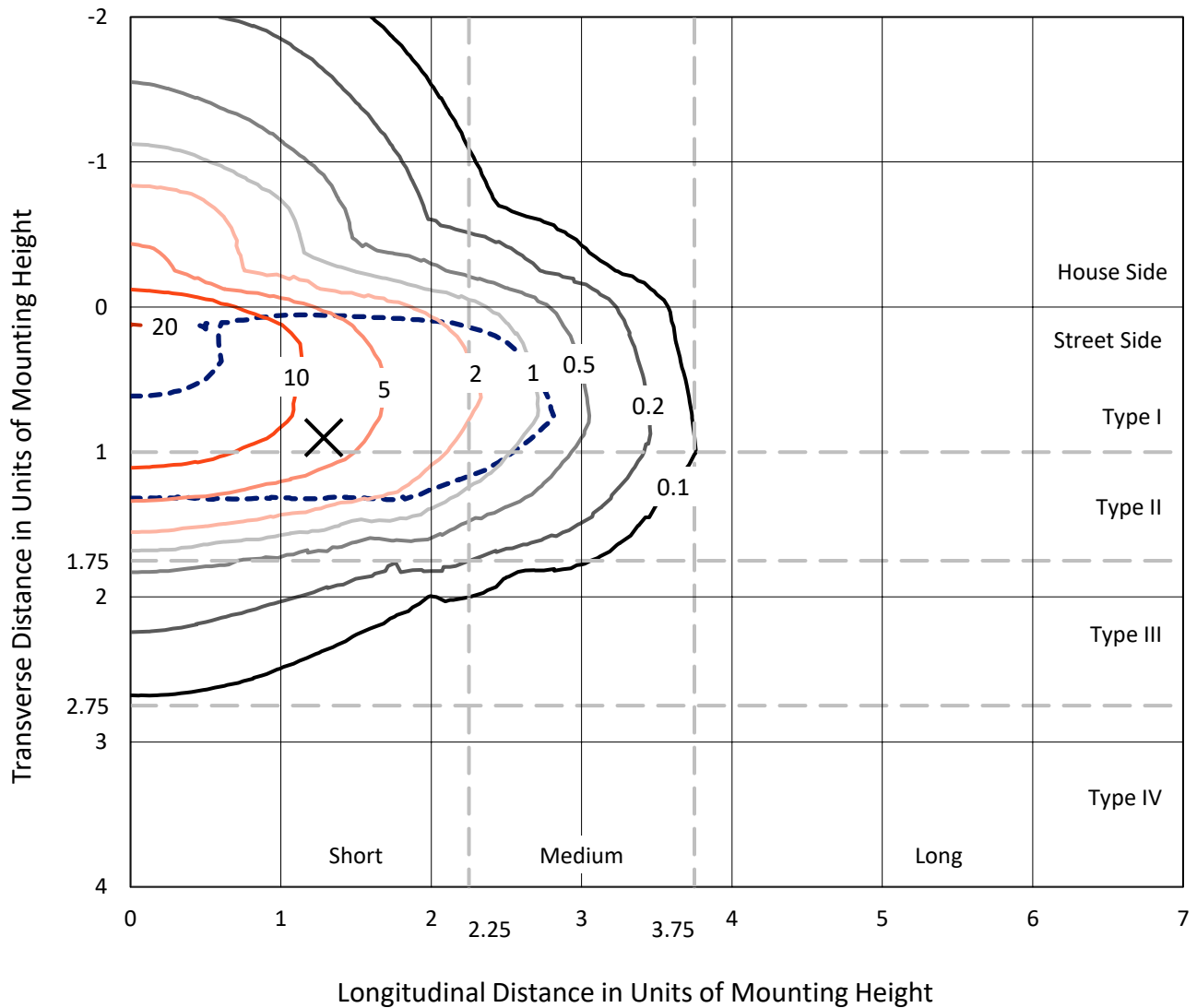
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

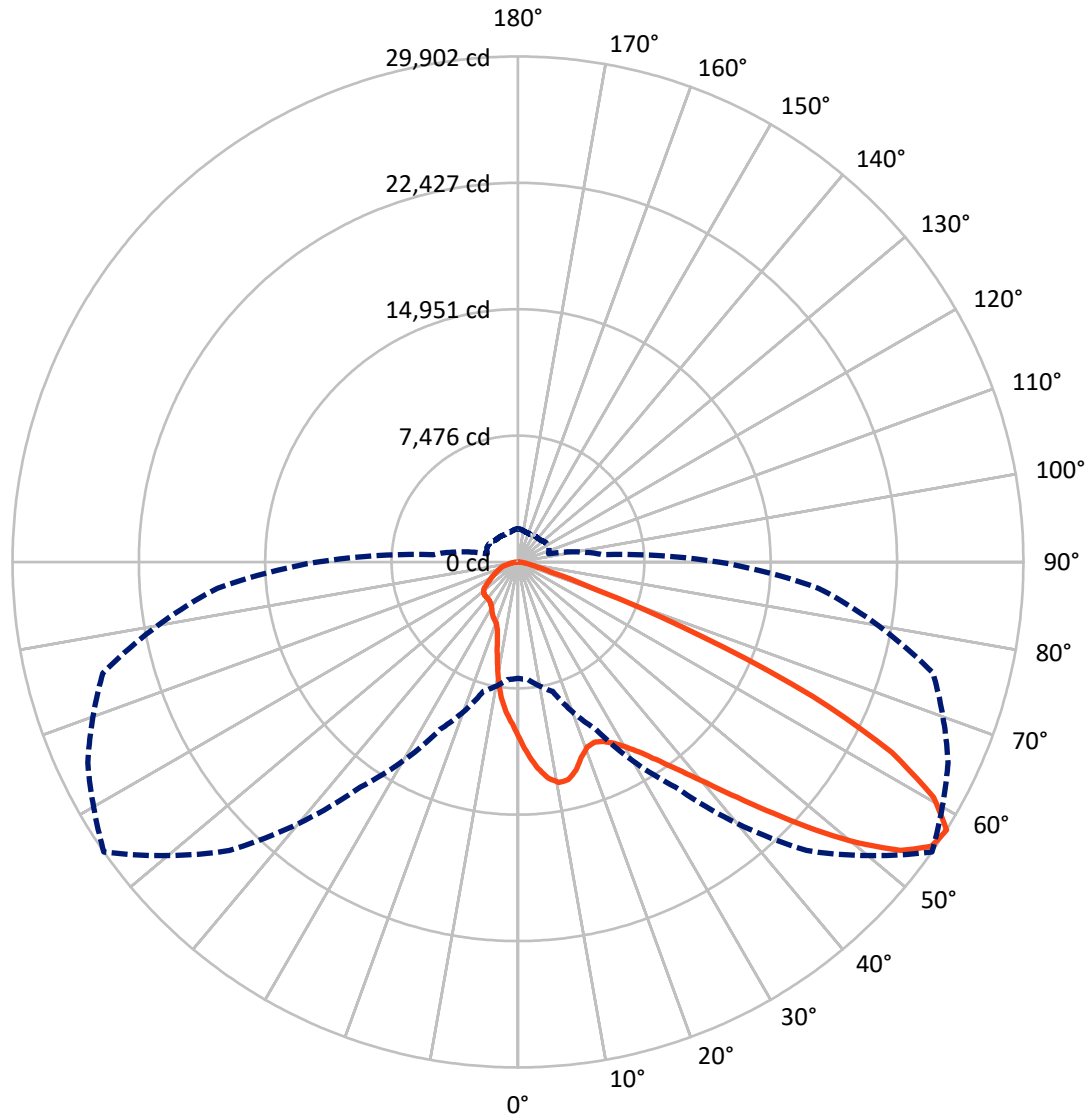
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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	7529.3	0.0	7529.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34081.7	0.0	34081.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	41611.0	0.0	41611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.5	2.3
10°-20°	2442.0	5.9
20°-30°	3896.8	9.4
30°-40°	6169.6	14.8
40°-50°	9443.1	22.7
50°-60°	10114.5	24.3
60°-70°	6363.1	15.3
70°-80°	1881.7	4.5
80°-90°	332.7	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°	41611.0	100.0
0°-180°	41611.0	100.0

Coefficient of Utilization



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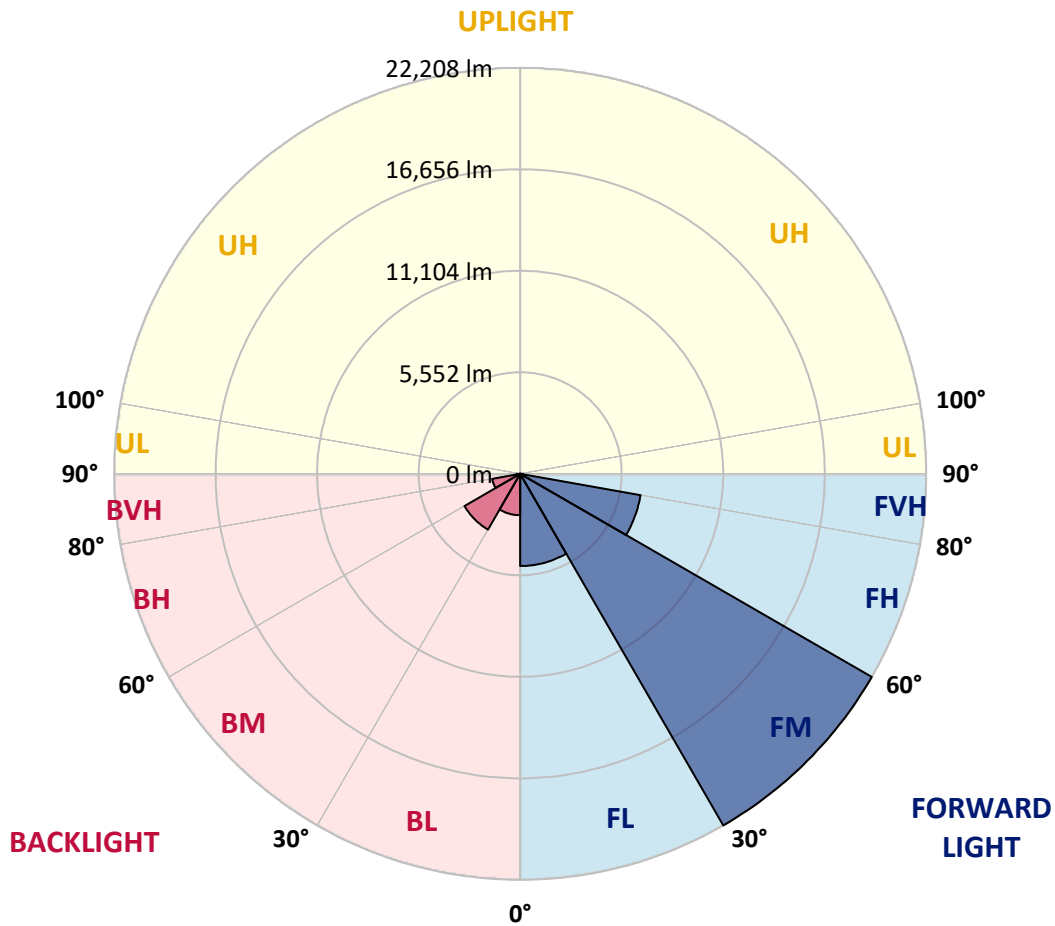
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5043.3	12.1			
FM (30°-60°)	22208.1	53.4			
FH (60°-80°)	6689.8	16.1			G3/7500
FVH (80°-90°)	140.6	0.3			G2/225
BL (0°-30°)	2263.1	5.4	B3/2500		
BM (30°-60°)	3519.1	8.5	B3/5000		
BH (60°-80°)	1555.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	192.1	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°	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4
2.5°	11962.2	11953.6	12001.0	11839.6	11729.9	11581.5	11385.8	11136.2	10867.3	10583.4
5°	13039.9	12964.7	13014.1	12893.7	12773.2	12549.5	12259.1	11852.5	11355.6	10789.9
7.5°	12870.0	12818.4	12945.3	13052.9	13143.2	13115.2	12902.3	12476.4	11835.3	11013.6
10°	11499.8	11441.7	11620.2	11992.4	12538.7	13014.1	13272.3	13007.7	12325.8	11258.8
12.5°	10290.8	10262.9	10381.2	10682.3	11289.0	12201.0	13224.9	13472.3	12835.6	11549.2
15°	9774.6	9740.2	9815.5	9968.2	10355.4	11205.1	12794.7	13790.7	13336.8	11884.8
17.5°	9660.6	9621.9	9654.1	9733.7	9983.2	10630.7	12145.1	13947.7	13859.5	12259.1
20°	9871.4	9839.1	9843.4	9839.1	10013.4	10527.5	11693.4	13887.5	14315.5	12603.3
22.5°	10381.2	10327.4	10329.6	10215.6	10310.2	10708.2	11575.1	13726.1	14722.1	12904.4
25°	11211.5	11114.7	11134.1	10843.7	10817.9	11112.6	11760.0	13601.4	15126.5	13145.4
27.5°	12347.3	12237.6	12179.5	11747.1	11540.6	11686.9	12136.5	13644.4	15509.4	13354.0
30°	13767.0	13633.7	13515.3	12902.3	12528.0	12474.2	12721.6	13928.4	15961.1	13573.4
32.5°	15507.3	15352.4	15137.3	14324.2	13797.1	13515.3	13478.8	14433.9	16490.3	13853.1
35°	17578.8	17376.6	17071.1	16019.2	15352.4	14775.9	14476.9	15163.1	17215.2	14274.7
37.5°	19712.7	19484.6	19205.0	17953.1	17133.5	16283.8	15694.4	16152.6	18181.1	14846.9
40°	21680.9	21424.9	21164.6	20050.4	19170.6	18146.7	17185.1	17404.5	19362.0	15530.9
42.5°	22842.5	22653.2	22554.2	21951.9	21272.2	20233.2	19039.4	18888.8	20689.2	16318.2
45°	22790.9	22713.4	23018.9	23268.4	23107.1	22530.6	21212.0	20530.1	22020.8	17000.1
47.5°	21573.3	21625.0	22306.9	23709.4	24326.8	24627.9	23685.7	22141.2	23178.1	17509.9
50°	18260.7	18303.7	19882.6	22907.0	24640.8	26338.0	26140.1	23713.7	24075.1	17821.8
52.5°	15638.5	15666.4	16344.0	20527.9	23604.0	27198.5	28351.5	25195.8	24731.2	17907.9
55°	11779.4	11876.2	12635.5	16105.3	20906.5	26516.6	29698.0	26723.1	25146.3	17916.5
57.5°	6881.4	6986.8	7924.6	10931.9	16249.4	24139.6	29902.4	28078.3	25428.1	17847.6
60°	3370.8	3415.9	3824.7	5745.6	10019.8	19559.9	28259.0	28734.4	25585.1	17811.1
62.5°	2271.6	2265.1	2282.3	2835.1	4936.8	12566.7	24834.4	27585.7	25501.3	17671.3
65°	1953.2	1929.5	1865.0	1989.8	2557.7	5747.7	19187.8	24156.8	24862.4	17320.6
67.5°	1688.6	1690.8	1692.9	1654.2	1826.3	2652.3	11725.6	19028.6	22569.3	15660.0
70°	1398.2	1417.6	1426.2	1426.2	1488.6	1740.2	5005.6	13042.1	17802.5	12278.5
72.5°	1273.4	1232.6	1236.9	1215.4	1215.4	1325.1	2015.6	7393.3	11215.8	6907.2
75°	1039.0	1064.8	1069.1	1054.0	1004.6	1011.0	1196.0	3101.9	4799.1	2865.3
77.5°	897.0	897.0	905.6	894.9	856.1	757.2	798.1	1202.5	1632.7	1174.5
80°	720.6	718.5	755.0	776.5	716.3	559.3	509.8	664.7	724.9	516.3
82.5°	350.6	372.1	518.4	591.6	544.2	404.4	311.9	413.0	387.2	228.0
85°	204.4	193.6	232.3	329.1	311.9	223.7	150.6	215.1	202.2	116.2
87.5°	64.5	60.2	47.3	111.9	90.3	62.4	40.9	62.4	55.9	25.8
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°
10426.4	0°	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4	10426.4
10460.8	2.5°	10308.1	10054.2	9802.5	9572.4	9432.6	9342.2	9251.9	9150.8	9112.0	9054.0
10488.7	5°	10204.8	9714.4	9277.7	8901.2	8559.2	8290.3	8019.3	7799.9	7700.9	7767.6
10576.9	7.5°	10144.6	9434.7	8761.4	8070.9	7406.2	6874.9	6412.4	6087.6	5941.3	5977.9
10663.0	10°	10090.8	9118.5	8092.4	7001.8	6046.7	5388.5	4915.3	4667.9	4575.4	4594.7
10779.1	12.5°	10041.3	8763.6	7285.8	5851.0	4835.7	4401.1	4265.6	4267.8	4285.0	4297.9
10964.1	15°	10032.7	8335.5	6384.5	4844.3	4181.7	4153.8	4300.0	4392.5	4442.0	4457.1
11119.0	17.5°	10019.8	7823.5	5465.9	4158.1	4022.6	4211.8	4347.4	4407.6	4446.3	4448.5
11269.6	20°	9968.2	7173.9	4618.4	3831.1	3988.1	4151.6	4235.5	4282.8	4315.1	4325.9
11383.6	22.5°	9809.0	6451.1	3958.0	3684.8	3850.5	3981.7	4080.6	4134.4	4153.8	4166.7
11405.1	25°	9522.9	5642.3	3502.0	3545.0	3659.0	3824.7	3904.2	3915.0	3908.5	3927.9
11351.3	27.5°	9148.6	4775.4	3218.0	3355.7	3502.0	3644.0	3687.0	3680.5	3667.6	3689.1
11258.8	30°	8696.9	3996.7	3037.3	3142.8	3342.8	3471.9	3510.6	3495.5	3469.7	3493.4
11211.5	32.5°	8219.3	3360.0	2888.9	2994.3	3211.6	3338.5	3377.2	3362.2	3342.8	3362.2
11265.3	35°	7774.1	2914.7	2751.3	2895.4	3108.3	3233.1	3282.6	3284.7	3284.7	3308.4
11407.3	37.5°	7365.4	2654.5	2637.2	2833.0	3037.3	3149.2	3220.2	3224.5	3132.0	3138.5
11648.2	40°	6986.8	2544.7	2585.6	2792.1	2968.5	3076.1	3080.4	2839.4	2669.5	2665.2
11923.5	42.5°	6677.0	2523.2	2600.7	2787.8	2919.0	2923.3	2620.0	2432.9	2385.6	2387.7
12177.4	45°	6386.6	2516.8	2635.1	2787.8	2845.9	2525.4	2321.0	2271.6	2275.9	2293.1
12291.4	47.5°	6061.8	2491.0	2641.5	2749.1	2635.1	2245.7	2185.5	2164.0	2155.4	2159.7
12265.6	50°	5706.9	2398.5	2559.8	2671.7	2273.7	2125.3	2050.0	2043.5	2054.3	2060.8
12121.4	52.5°	5332.6	2247.9	2420.0	2531.8	2108.1	2019.9	1936.0	1951.0	1998.4	2013.4
11970.9	55°	5087.3	2071.5	2235.0	2252.2	1991.9	1920.9	1849.9	1884.4	1972.6	2000.5
11880.5	57.5°	5022.8	1884.4	2024.2	2004.8	1843.5	1834.9	1791.9	1822.0	1933.8	1974.7
11876.2	60°	5003.5	1716.6	1817.7	1802.6	1699.4	1740.2	1729.5	1744.5	1783.3	1796.2
11833.2	62.5°	4852.9	1583.2	1632.7	1611.2	1570.3	1641.3	1667.1	1634.8	1664.9	1680.0
11538.5	65°	4470.0	1475.7	1452.0	1436.9	1454.1	1518.7	1570.3	1505.8	1533.7	1576.8
10402.7	67.5°	3837.6	1329.4	1264.8	1282.1	1335.8	1370.2	1436.9	1363.8	1387.5	1460.6
8378.5	70°	3104.0	1144.4	1086.3	1135.8	1187.4	1258.4	1269.1	1219.7	1275.6	1357.3
5113.2	72.5°	2196.3	957.2	916.4	1017.5	1034.7	1127.2	1103.5	1079.9	1157.3	1185.3
2527.5	75°	1523.0	772.2	748.6	826.0	888.4	968.0	950.8	978.7	1142.2	1155.1
1262.7	77.5°	963.7	600.2	585.1	634.6	720.6	808.8	836.8	1155.1	1951.0	2028.5
656.1	80°	559.3	447.4	430.2	468.9	544.2	626.0	806.7	1417.6	1286.4	1271.3
294.7	82.5°	311.9	307.6	286.1	296.9	363.5	451.7	1140.1	998.1	811.0	836.8
118.3	85°	146.3	180.7	154.9	148.4	204.4	529.2	761.5	570.0	378.6	370.0
25.8	87.5°	38.7	34.4	34.4	38.7	86.0	456.0	303.3	243.1	144.1	139.8
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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