

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: P950335

Luminaire Tested: **GALN-SB4D-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950335  
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-SB4D-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

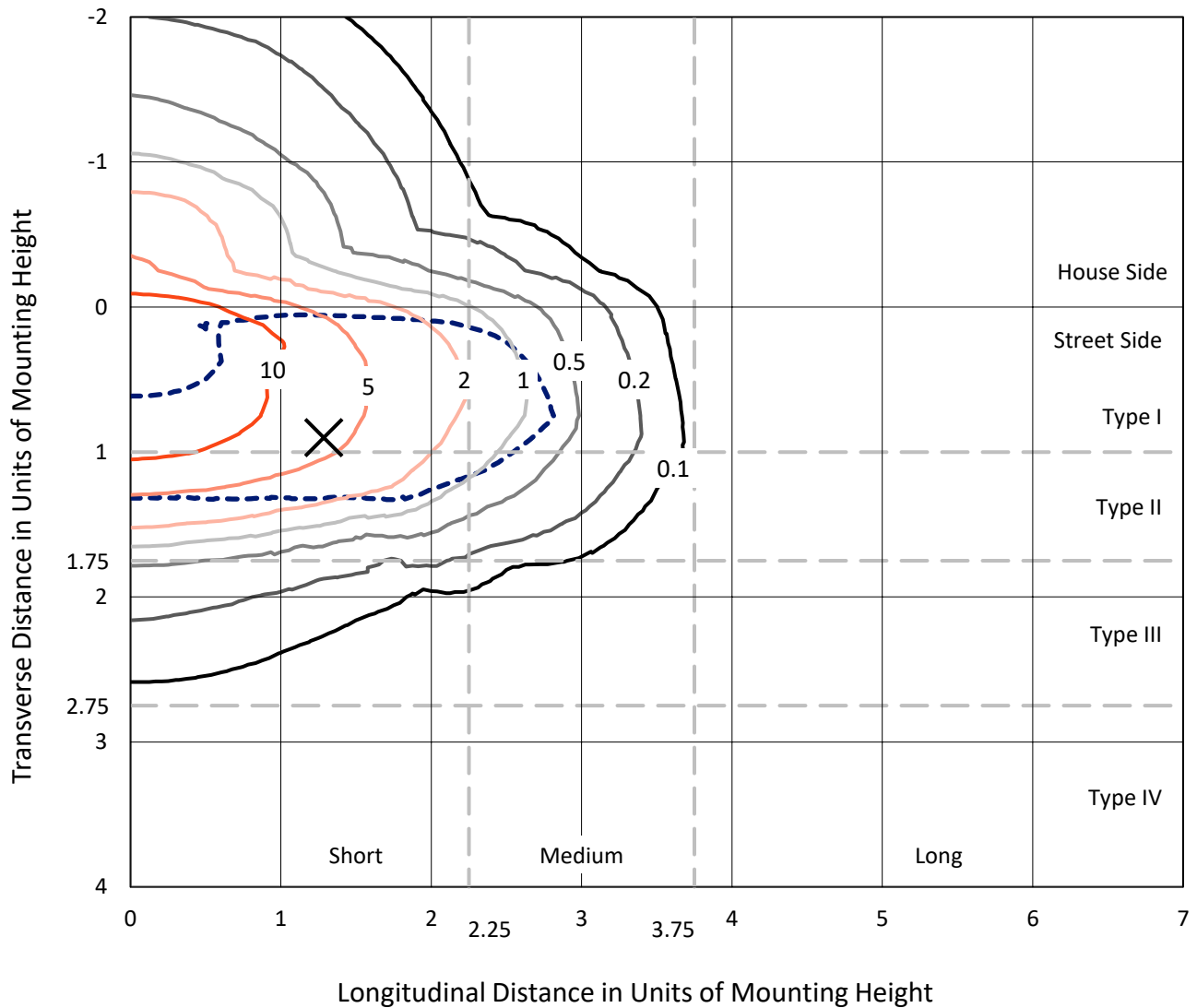
Lumens per Lamp: N/A  
Luminaire Lumens: 36068 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

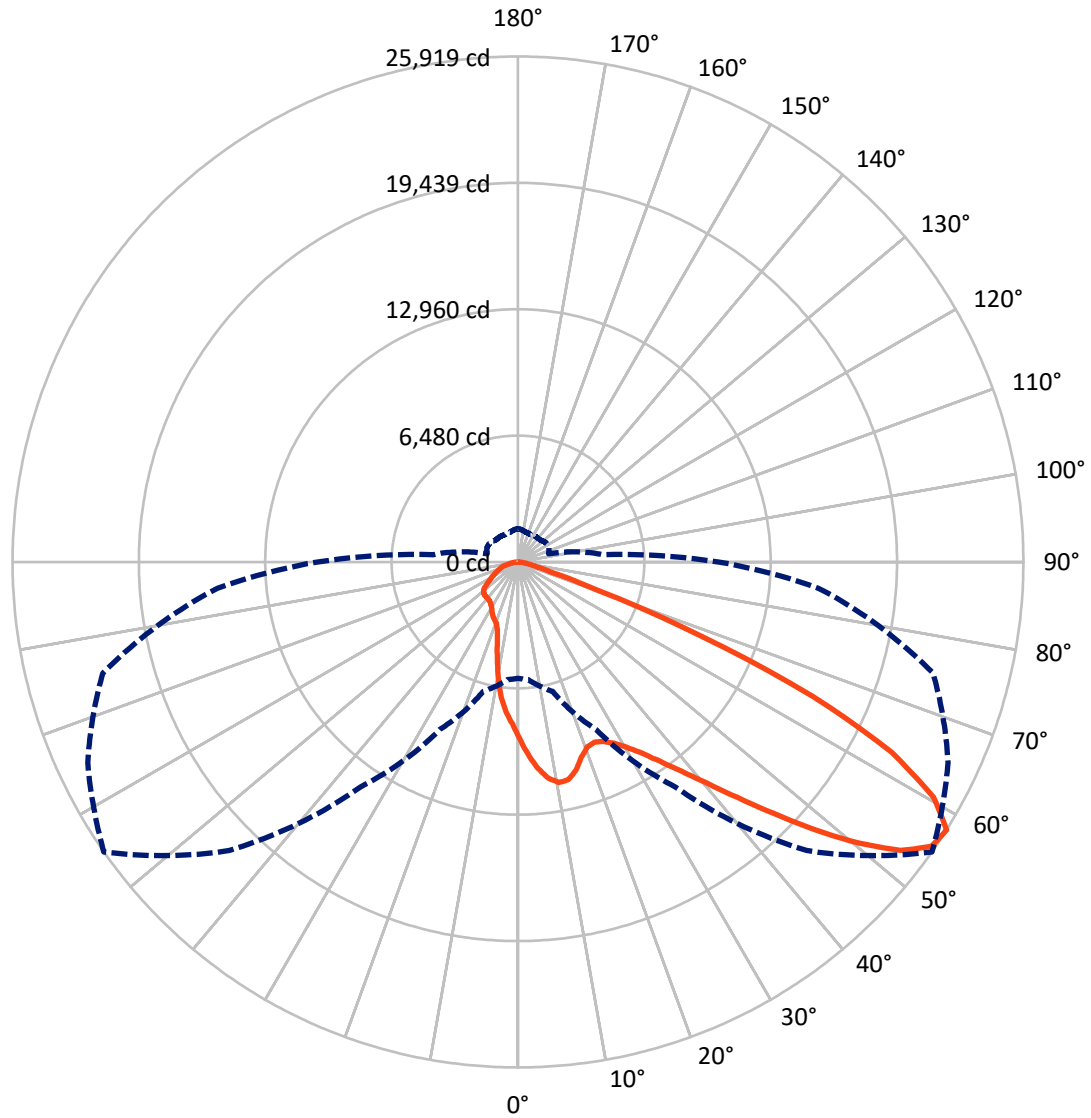
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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
<b>House Side</b>	Lumens	6526.3	0.0	6526.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	29541.7	0.0	29541.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	36068.0	0.0	36068.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.6	2.3
10°-20°	2116.7	5.9
20°-30°	3377.7	9.4
30°-40°	5347.7	14.8
40°-50°	8185.2	22.7
50°-60°	8767.2	24.3
60°-70°	5515.5	15.3
70°-80°	1631.0	4.5
80°-90°	288.4	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°	36068.0	100.0
0°-180°	36068.0	100.0



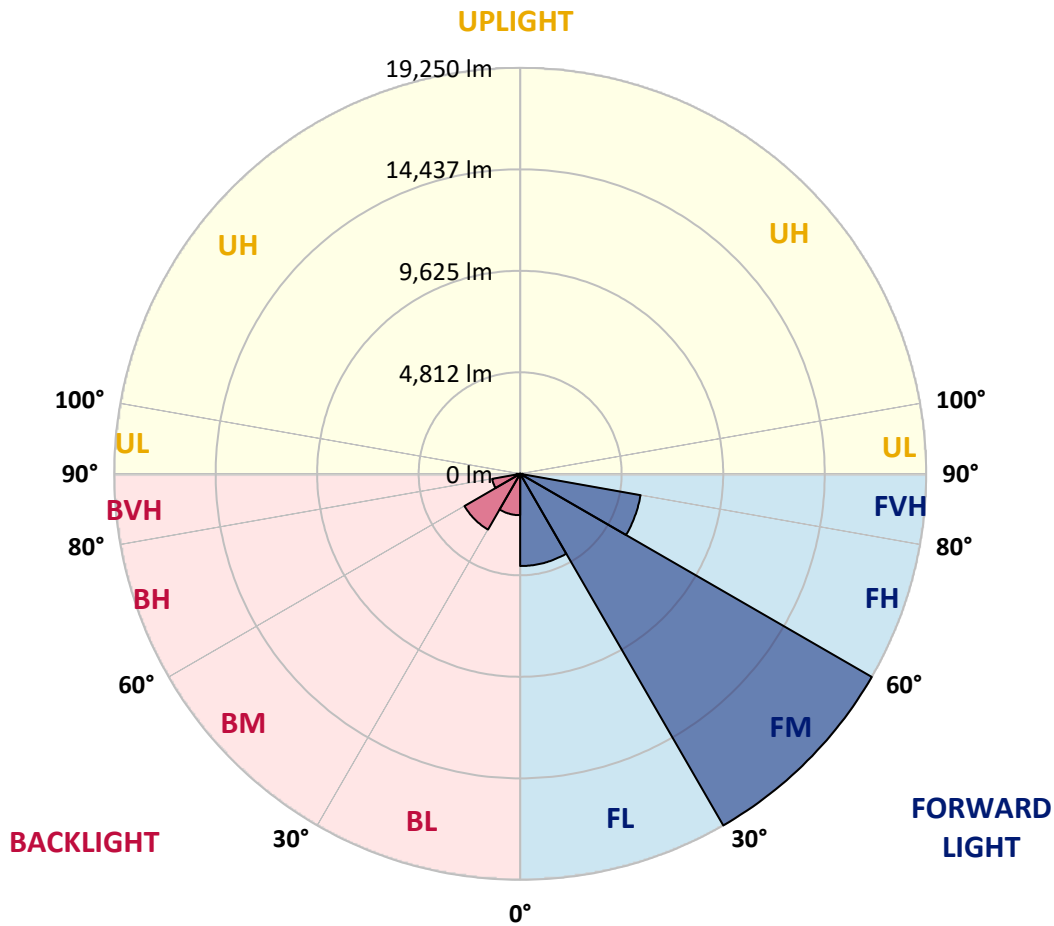
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4371.4	12.1			
FM (30°-60°)	19249.8	53.4			
FH (60°-80°)	5798.6	16.1			G3/7500
FVH (80°-90°)	121.8	0.3			G2/225
BL (0°-30°)	1961.6	5.4	B3/2500		
BM (30°-60°)	3050.3	8.5	B3/5000		
BH (60°-80°)	1347.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	166.5	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°	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5
2.5°	10368.8	10361.3	10402.3	10262.5	10167.4	10038.7	9869.1	9652.8	9419.7	9173.6
5°	11302.9	11237.6	11280.5	11176.1	11071.7	10877.8	10626.1	10273.7	9843.0	9352.6
7.5°	11155.6	11110.8	11220.9	11314.1	11392.4	11368.2	11183.6	10814.4	10258.7	9546.5
10°	9967.9	9917.5	10072.3	10394.9	10868.5	11280.5	11504.3	11274.9	10683.9	9759.1
12.5°	8920.0	8895.8	8998.3	9259.4	9785.2	10575.7	11463.2	11677.7	11125.8	10010.8
15°	8472.5	8442.7	8507.9	8640.3	8975.9	9712.4	11090.3	11953.6	11560.2	10301.6
17.5°	8373.7	8340.1	8368.1	8437.1	8653.4	9214.6	10527.2	12089.7	12013.3	10626.1
20°	8556.4	8528.4	8532.2	8528.4	8679.5	9125.1	10135.7	12037.5	12408.6	10924.4
22.5°	8998.3	8951.7	8953.6	8854.7	8936.8	9281.7	10033.1	11897.7	12761.0	11185.4
25°	9718.0	9634.1	9650.9	9399.2	9376.8	9632.3	10193.5	11789.5	13111.5	11394.3
27.5°	10702.5	10607.4	10557.1	10182.3	10003.3	10130.1	10519.8	11826.8	13443.4	11575.1
30°	11933.1	11817.5	11715.0	11183.6	10859.1	10812.5	11026.9	12073.0	13835.0	11765.3
32.5°	13441.5	13307.3	13120.8	12416.0	11959.2	11715.0	11683.3	12511.1	14293.6	12007.7
35°	15237.1	15061.8	14797.1	13885.3	13307.3	12807.6	12548.4	13143.2	14922.0	12373.1
37.5°	17086.7	16889.1	16646.7	15561.5	14851.1	14114.6	13603.8	14000.9	15759.2	12869.1
40°	18792.8	18570.9	18345.3	17379.5	16616.9	15729.3	14895.9	15086.1	16782.8	13462.0
42.5°	19799.6	19635.6	19549.8	19027.7	18438.5	17537.9	16503.1	16372.6	17933.2	14144.5
45°	19754.9	19687.8	19952.5	20168.8	20029.0	19529.3	18386.3	17795.3	19087.4	14735.5
47.5°	18699.6	18744.3	19335.4	20551.1	21086.2	21347.2	20530.6	19191.8	20090.5	15177.4
50°	15828.2	15865.4	17234.0	19855.6	21358.4	22829.5	22658.0	20554.8	20868.0	15447.8
52.5°	13555.3	13579.5	14166.8	17793.4	20459.7	23575.4	24574.8	21839.5	21436.7	15522.4
55°	10210.3	10294.2	10952.4	13959.9	18121.6	22984.3	25742.0	23163.3	21796.6	15529.8
57.5°	5964.7	6056.1	6869.0	9475.6	14084.8	20924.0	25919.1	24338.0	22040.8	15470.2
60°	2921.7	2960.9	3315.2	4980.2	8685.1	16954.3	24494.6	24906.6	22176.9	15438.5
62.5°	1969.0	1963.4	1978.3	2457.5	4279.1	10892.7	21526.2	23911.0	22104.2	15317.3
65°	1693.0	1672.5	1616.6	1724.7	2216.9	4982.1	16631.8	20938.9	21550.5	15013.4
67.5°	1463.7	1465.5	1467.4	1433.8	1583.0	2299.0	10163.7	16493.8	19562.9	13573.9
70°	1212.0	1228.7	1236.2	1236.2	1290.3	1508.4	4338.8	11304.8	15431.0	10642.8
72.5°	1103.8	1068.4	1072.1	1053.5	1053.5	1148.6	1747.1	6408.5	9721.8	5987.1
75°	900.6	923.0	926.7	913.6	870.7	876.3	1036.7	2688.7	4159.8	2483.6
77.5°	777.5	777.5	785.0	775.7	742.1	656.3	691.7	1042.3	1415.2	1018.0
80°	624.6	622.8	654.5	673.1	620.9	484.8	441.9	576.1	628.4	447.5
82.5°	303.9	322.6	449.4	512.8	471.7	350.5	270.4	358.0	335.6	197.6
85°	177.1	167.8	201.4	285.3	270.4	193.9	130.5	186.5	175.3	100.7
87.5°	55.9	52.2	41.0	97.0	78.3	54.1	35.4	54.1	48.5	22.4
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°
9037.5	0°	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5	9037.5
9067.3	2.5°	8934.9	8714.9	8496.8	8297.2	8176.0	8097.7	8019.4	7931.8	7898.2	7847.9
9091.5	5°	8845.4	8420.3	8041.8	7715.5	7419.0	7186.0	6951.0	6760.9	6675.1	6732.9
9168.0	7.5°	8793.2	8177.9	7594.3	6995.8	6419.6	5959.1	5558.2	5276.7	5149.9	5181.6
9242.6	10°	8746.6	7903.8	7014.4	6069.1	5241.2	4670.7	4260.5	4046.1	3965.9	3982.7
9343.3	12.5°	8703.7	7596.2	6315.2	5071.6	4191.5	3814.9	3697.4	3699.3	3714.2	3725.4
9503.6	15°	8696.3	7225.1	5534.0	4199.0	3624.7	3600.4	3727.2	3807.4	3850.3	3863.3
9637.9	17.5°	8685.1	6781.4	4737.8	3604.2	3486.7	3650.8	3768.3	3820.5	3854.0	3855.9
9768.4	20°	8640.3	6218.3	4003.2	3320.8	3456.9	3598.6	3671.3	3712.3	3740.3	3749.6
9867.2	22.5°	8502.3	5591.8	3430.8	3194.0	3337.5	3451.3	3537.0	3583.7	3600.4	3611.6
9885.8	25°	8254.4	4890.7	3035.5	3072.8	3171.6	3315.2	3384.2	3393.5	3387.9	3404.7
9839.2	27.5°	7929.9	4139.3	2789.4	2908.7	3035.5	3158.5	3195.8	3190.2	3179.1	3197.7
9759.1	30°	7538.4	3464.3	2632.7	2724.1	2897.5	3009.4	3042.9	3029.9	3007.5	3028.0
9718.0	32.5°	7124.4	2912.4	2504.1	2595.5	2783.8	2893.8	2927.3	2914.3	2897.5	2914.3
9764.6	35°	6738.5	2526.5	2384.8	2509.7	2694.3	2802.4	2845.3	2847.2	2847.2	2867.7
9887.7	37.5°	6384.2	2300.9	2285.9	2455.6	2632.7	2729.7	2791.2	2795.0	2714.8	2720.4
10096.5	40°	6056.1	2205.8	2241.2	2420.2	2573.1	2666.3	2670.0	2461.2	2313.9	2310.2
10335.2	42.5°	5787.6	2187.1	2254.2	2416.5	2530.2	2533.9	2271.0	2108.8	2067.8	2069.6
10555.2	45°	5535.8	2181.5	2284.1	2416.5	2466.8	2189.0	2011.8	1969.0	1972.7	1987.6
10654.0	47.5°	5254.3	2159.1	2289.7	2382.9	2284.1	1946.6	1894.4	1875.7	1868.3	1872.0
10631.7	50°	4946.6	2079.0	2218.8	2315.8	1970.8	1842.2	1776.9	1771.3	1780.6	1786.2
10506.7	52.5°	4622.2	1948.5	2097.6	2194.6	1827.3	1750.8	1678.1	1691.1	1732.2	1745.2
10376.2	55°	4409.7	1795.6	1937.3	1952.2	1726.6	1665.0	1603.5	1633.3	1709.8	1734.0
10297.9	57.5°	4353.7	1633.3	1754.5	1737.8	1597.9	1590.5	1553.2	1579.3	1676.2	1711.7
10294.2	60°	4336.9	1487.9	1575.5	1562.5	1473.0	1508.4	1499.1	1512.1	1545.7	1556.9
10256.9	62.5°	4206.4	1372.3	1415.2	1396.5	1361.1	1422.7	1445.0	1417.1	1443.2	1456.2
10001.4	65°	3874.5	1279.1	1258.6	1245.5	1260.4	1316.4	1361.1	1305.2	1329.4	1366.7
9017.0	67.5°	3326.4	1152.3	1096.4	1111.3	1157.9	1187.7	1245.5	1182.1	1202.6	1266.0
7262.4	70°	2690.5	991.9	941.6	984.5	1029.2	1090.8	1100.1	1057.2	1105.7	1176.5
4432.0	72.5°	1903.7	829.7	794.3	881.9	896.8	977.0	956.5	936.0	1003.1	1027.4
2190.8	75°	1320.1	669.4	648.9	716.0	770.1	839.0	824.1	848.4	990.1	1001.3
1094.5	77.5°	835.3	520.2	507.2	550.0	624.6	701.1	725.3	1001.3	1691.1	1758.3
568.7	80°	484.8	387.8	372.9	406.5	471.7	542.6	699.2	1228.7	1115.0	1101.9
255.4	82.5°	270.4	266.6	248.0	257.3	315.1	391.6	988.2	865.2	702.9	725.3
102.6	85°	126.8	156.6	134.2	128.7	177.1	458.7	660.1	494.1	328.2	320.7
22.4	87.5°	33.6	29.8	29.8	33.6	74.6	395.3	262.9	210.7	124.9	121.2
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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