

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: P950251

Luminaire Tested: **GALN-SB4D-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950251  
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-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

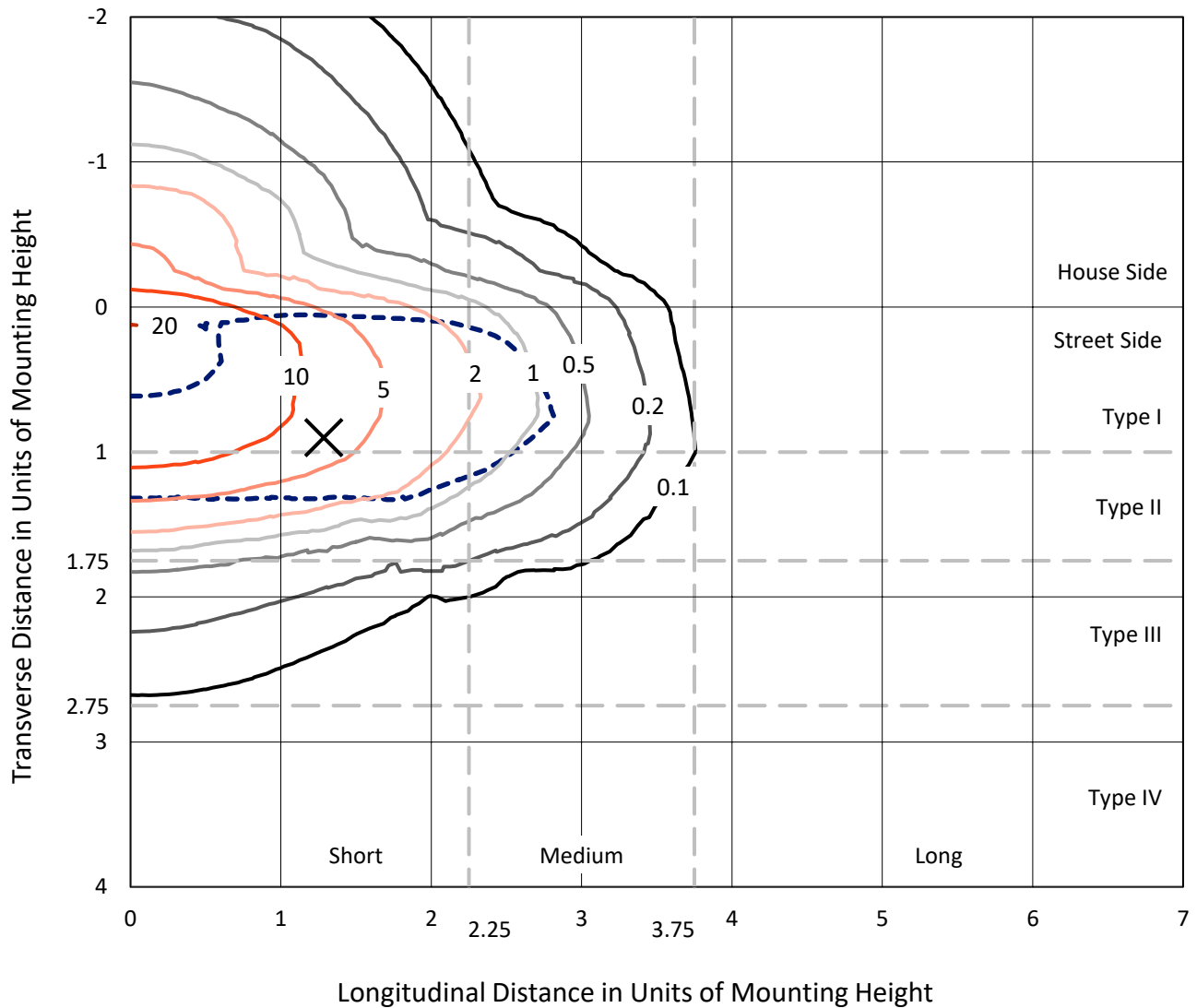
Lumens per Lamp: N/A  
Luminaire Lumens: 41478 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

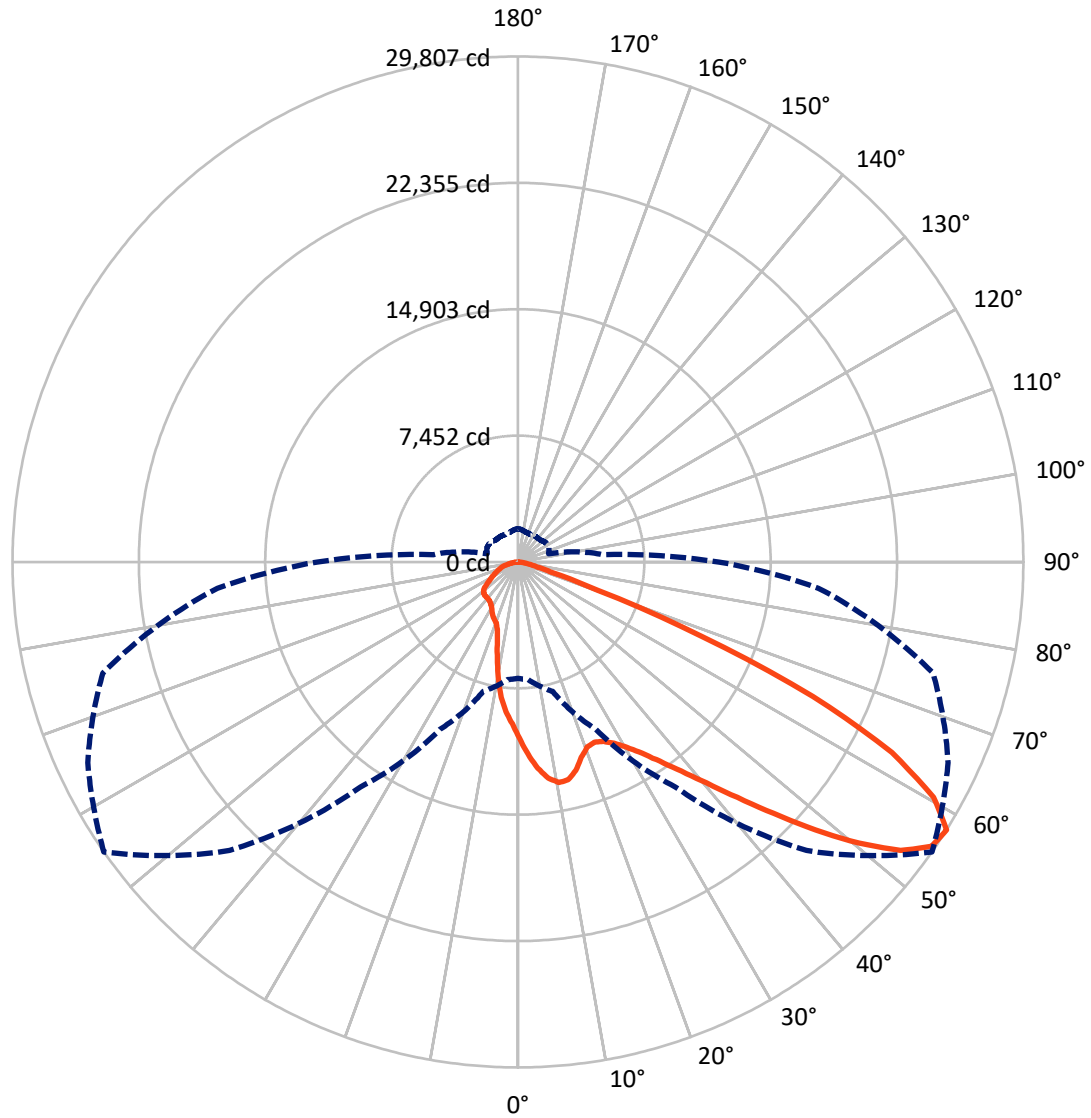
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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
<b>House Side</b>	Lumens	7505.2	0.0	7505.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	33972.8	0.0	33972.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	41478.0	0.0	41478.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	964.4	2.3
10°-20°	2434.2	5.9
20°-30°	3884.3	9.4
30°-40°	6149.8	14.8
40°-50°	9413.0	22.7
50°-60°	10082.2	24.3
60°-70°	6342.7	15.3
70°-80°	1875.7	4.5
80°-90°	331.6	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°	41478.0	100.0
0°-180°	41478.0	100.0

**Coefficient of Utilization**



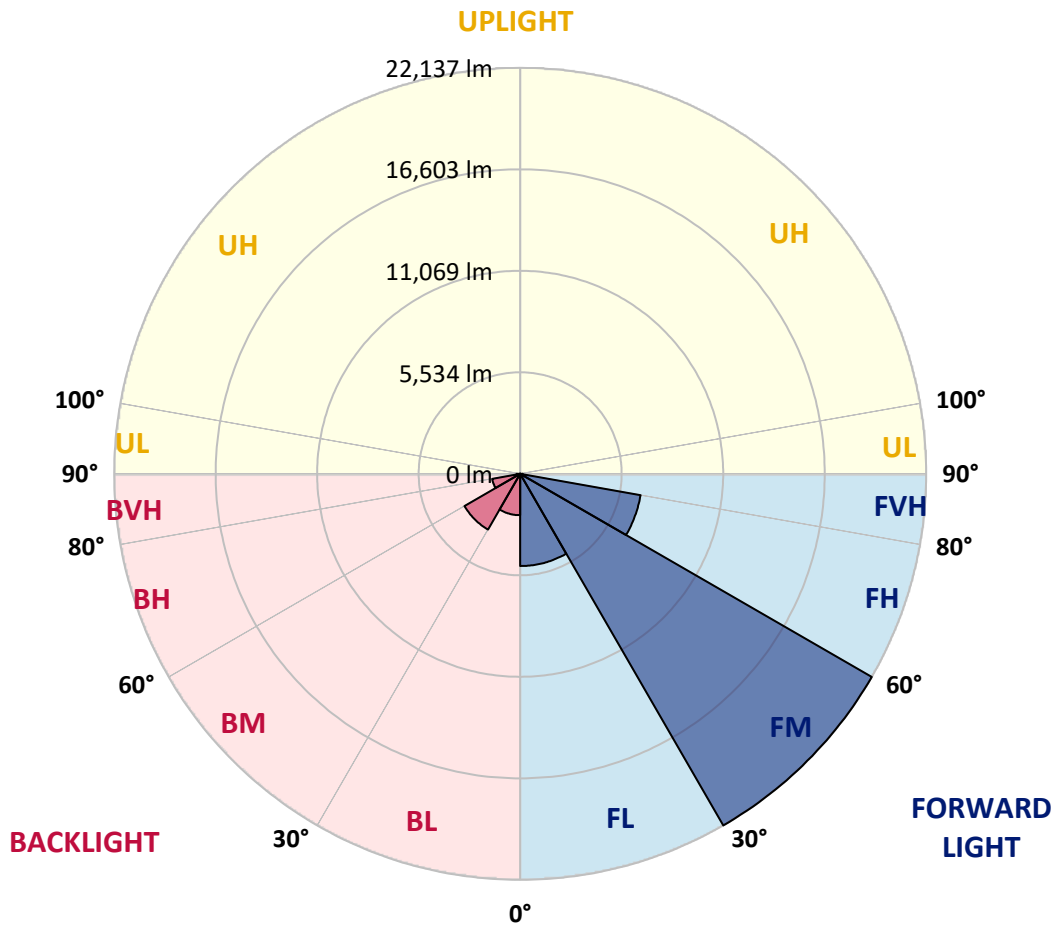
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5027.1	12.1			
FM (30°-60°)	22137.1	53.4			
FH (60°-80°)	6668.4	16.1			G3/7500
FVH (80°-90°)	140.1	0.3			G2/225
BL (0°-30°)	2255.8	5.4	B3/2500		
BM (30°-60°)	3507.9	8.5	B3/5000		
BH (60°-80°)	1550.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	191.5	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°	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0
2.5°	11924.0	11915.4	11962.6	11801.8	11692.4	11544.5	11349.4	11100.6	10832.6	10549.6
5°	12998.3	12923.2	12972.5	12852.5	12732.4	12509.4	12219.9	11814.7	11319.3	10755.4
7.5°	12828.9	12777.4	12903.9	13011.1	13101.2	13073.3	12861.0	12436.5	11797.5	10978.4
10°	11463.0	11405.1	11583.1	11954.0	12498.7	12972.5	13229.8	12966.1	12286.4	11222.9
12.5°	10258.0	10230.1	10348.0	10648.2	11252.9	12162.0	13182.7	13429.3	12794.6	11512.3
15°	9743.3	9709.0	9784.1	9936.3	10322.3	11169.2	12753.8	13746.6	13294.2	11846.8
17.5°	9629.7	9591.1	9623.3	9702.6	9951.3	10596.7	12106.3	13903.1	13815.2	12219.9
20°	9839.8	9807.7	9812.0	9807.7	9981.3	10493.8	11656.0	13843.1	14269.8	12563.0
22.5°	10348.0	10294.4	10296.6	10182.9	10277.3	10673.9	11538.1	13682.3	14675.1	12863.2
25°	11175.7	11079.2	11098.5	10809.0	10783.3	11077.0	11722.5	13557.9	15078.2	13103.3
27.5°	12307.8	12198.5	12140.6	11709.6	11503.7	11649.6	12097.7	13600.8	15459.8	13311.3
30°	13723.0	13590.1	13472.1	12861.0	12487.9	12434.3	12680.9	13883.8	15910.1	13530.0
32.5°	15457.7	15303.3	15088.9	14278.4	13753.0	13472.1	13435.7	14387.7	16437.6	13808.8
35°	17522.6	17321.0	17016.5	15968.0	15303.3	14728.7	14430.6	15114.6	17160.2	14229.1
37.5°	19649.6	19422.4	19143.6	17895.7	17078.7	16231.8	15644.2	16101.0	18123.0	14799.4
40°	21611.6	21356.4	21097.0	19986.3	19109.3	18088.7	17130.2	17348.9	19300.1	15481.3
42.5°	22769.5	22580.8	22482.2	21881.8	21204.2	20168.5	18978.5	18828.4	20623.1	16266.1
45°	22718.0	22640.8	22945.3	23194.0	23033.2	22458.6	21144.2	20464.4	21950.4	16945.8
47.5°	21504.4	21555.9	22235.6	23633.6	24249.0	24549.2	23610.0	22070.5	23104.0	17454.0
50°	18202.3	18245.2	19819.0	22833.8	24562.1	26253.8	26056.6	23637.9	23998.1	17764.9
52.5°	15588.5	15616.4	16291.8	20462.3	23528.5	27111.5	28260.8	25115.3	24652.1	17850.6
55°	11741.8	11838.2	12595.2	16053.8	20839.7	26431.8	29603.1	26637.7	25065.9	17859.2
57.5°	6859.4	6964.4	7899.3	10896.9	16197.4	24062.5	29806.8	27988.5	25346.8	17790.6
60°	3360.0	3405.0	3812.4	5727.2	9987.8	19497.4	28168.6	28642.5	25503.4	17754.2
62.5°	2264.3	2257.9	2275.0	2826.1	4921.0	12526.5	24755.0	27497.5	25419.7	17614.8
65°	1947.0	1923.4	1859.0	1983.4	2549.5	5729.4	19126.5	24079.6	24782.9	17265.3
67.5°	1683.2	1685.4	1687.5	1648.9	1820.4	2643.8	11688.2	18967.8	22497.2	15609.9
70°	1393.7	1413.0	1421.6	1421.6	1483.8	1734.7	4989.6	13000.4	17745.6	12239.2
72.5°	1269.4	1228.6	1232.9	1211.5	1211.5	1320.8	2009.1	7369.7	11180.0	6885.1
75°	1035.7	1061.4	1065.7	1050.7	1001.4	1007.8	1192.2	3092.0	4783.8	2856.1
77.5°	894.1	894.1	902.7	892.0	853.4	754.8	795.5	1198.6	1627.5	1170.7
80°	718.3	716.2	752.6	774.1	714.0	557.5	508.2	662.6	722.6	514.6
82.5°	349.5	371.0	516.8	589.7	542.5	403.1	310.9	411.7	386.0	227.3
85°	203.7	193.0	231.6	328.1	310.9	223.0	150.1	214.4	201.6	115.8
87.5°	64.3	60.0	47.2	111.5	90.1	62.2	40.7	62.2	55.7	25.7
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°
10393.0	0°	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0	10393.0
10427.3	2.5°	10275.1	10022.1	9771.2	9541.8	9402.4	9312.4	9222.3	9121.5	9082.9	9025.0
10455.2	5°	10172.2	9683.3	9248.0	8872.8	8531.9	8263.8	7993.7	7774.9	7676.3	7742.8
10543.1	7.5°	10112.1	9404.6	8733.4	8045.1	7382.6	6852.9	6391.9	6068.1	5922.3	5958.8
10628.9	10°	10058.5	9089.4	8066.6	6979.4	6027.4	5371.3	4899.5	4653.0	4560.8	4580.1
10744.7	12.5°	10009.2	8735.6	7262.5	5832.3	4820.2	4387.1	4252.0	4254.1	4271.3	4284.2
10929.1	15°	10000.6	8308.9	6364.0	4828.8	4168.4	4140.5	4286.3	4378.5	4427.8	4442.8
11083.5	17.5°	9987.8	7798.5	5448.5	4144.8	4009.7	4198.4	4333.5	4393.5	4432.1	4434.2
11233.6	20°	9936.3	7151.0	4603.6	3818.9	3975.4	4138.3	4222.0	4269.1	4301.3	4312.0
11347.2	22.5°	9777.6	6430.5	3945.4	3673.1	3838.2	3969.0	4067.6	4121.2	4140.5	4153.4
11368.7	25°	9492.5	5624.3	3490.8	3533.7	3647.3	3812.4	3891.8	3902.5	3896.1	3915.3
11315.1	27.5°	9119.4	4760.2	3207.8	3345.0	3490.8	3632.3	3675.2	3668.8	3655.9	3677.3
11222.9	30°	8669.1	3984.0	3027.6	3132.7	3332.1	3460.8	3499.4	3484.4	3458.6	3482.2
11175.7	32.5°	8193.1	3349.3	2879.7	2984.8	3201.3	3327.8	3366.4	3351.4	3332.1	3351.4
11229.3	35°	7749.2	2905.4	2742.5	2886.1	3098.4	3222.8	3272.1	3274.2	3274.2	3297.8
11370.8	37.5°	7341.8	2646.0	2628.8	2823.9	3027.6	3139.1	3209.9	3214.2	3122.0	3128.4
11611.0	40°	6964.4	2536.6	2577.4	2783.2	2959.0	3066.2	3070.5	2830.4	2661.0	2656.7
11885.4	42.5°	6655.7	2515.2	2592.4	2778.9	2909.7	2914.0	2611.7	2425.1	2377.9	2380.1
12138.4	45°	6366.2	2508.7	2626.7	2778.9	2836.8	2517.3	2313.6	2264.3	2268.6	2285.7
12252.1	47.5°	6042.4	2483.0	2633.1	2740.3	2626.7	2238.6	2178.5	2157.1	2148.5	2152.8
12226.3	50°	5688.6	2390.8	2551.6	2663.1	2266.4	2118.5	2043.4	2037.0	2047.7	2054.2
12082.7	52.5°	5315.5	2240.7	2412.2	2523.7	2101.3	2013.4	1929.8	1944.8	1992.0	2007.0
11932.6	55°	5071.1	2064.9	2227.8	2245.0	1985.5	1914.8	1844.0	1878.3	1966.3	1994.1
11842.5	57.5°	5006.8	1878.3	2017.7	1998.4	1837.6	1829.0	1786.1	1816.2	1927.7	1968.4
11838.2	60°	4987.5	1711.1	1811.9	1796.9	1693.9	1734.7	1724.0	1739.0	1777.6	1790.4
11795.4	62.5°	4837.4	1578.1	1627.5	1606.0	1565.3	1636.0	1661.8	1629.6	1659.6	1674.6
11501.6	65°	4455.7	1470.9	1447.3	1432.3	1449.5	1513.8	1565.3	1501.0	1528.8	1571.7
10369.5	67.5°	3825.3	1325.1	1260.8	1278.0	1331.6	1365.9	1432.3	1359.4	1383.0	1455.9
8351.7	70°	3094.1	1140.7	1082.8	1132.1	1183.6	1254.4	1265.1	1215.8	1271.5	1353.0
5096.8	72.5°	2189.2	954.2	913.4	1014.2	1031.4	1123.6	1100.0	1076.4	1153.6	1181.5
2519.5	75°	1518.1	769.8	746.2	823.4	885.6	964.9	947.7	975.6	1138.6	1151.4
1258.7	77.5°	960.6	598.2	583.2	632.5	718.3	806.2	834.1	1151.4	1944.8	2022.0
654.0	80°	557.5	446.0	428.8	467.4	542.5	624.0	804.1	1413.0	1282.2	1267.2
293.8	82.5°	310.9	306.6	285.2	295.9	362.4	450.3	1136.4	994.9	808.4	834.1
117.9	85°	145.8	180.1	154.4	148.0	203.7	527.5	759.1	568.2	377.4	368.8
25.7	87.5°	38.6	34.3	34.3	38.6	85.8	454.6	302.3	242.3	143.7	139.4
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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