

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: P953947

Luminaire Tested: **GALN-SB7B-835-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953947  
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-SB7B-835-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

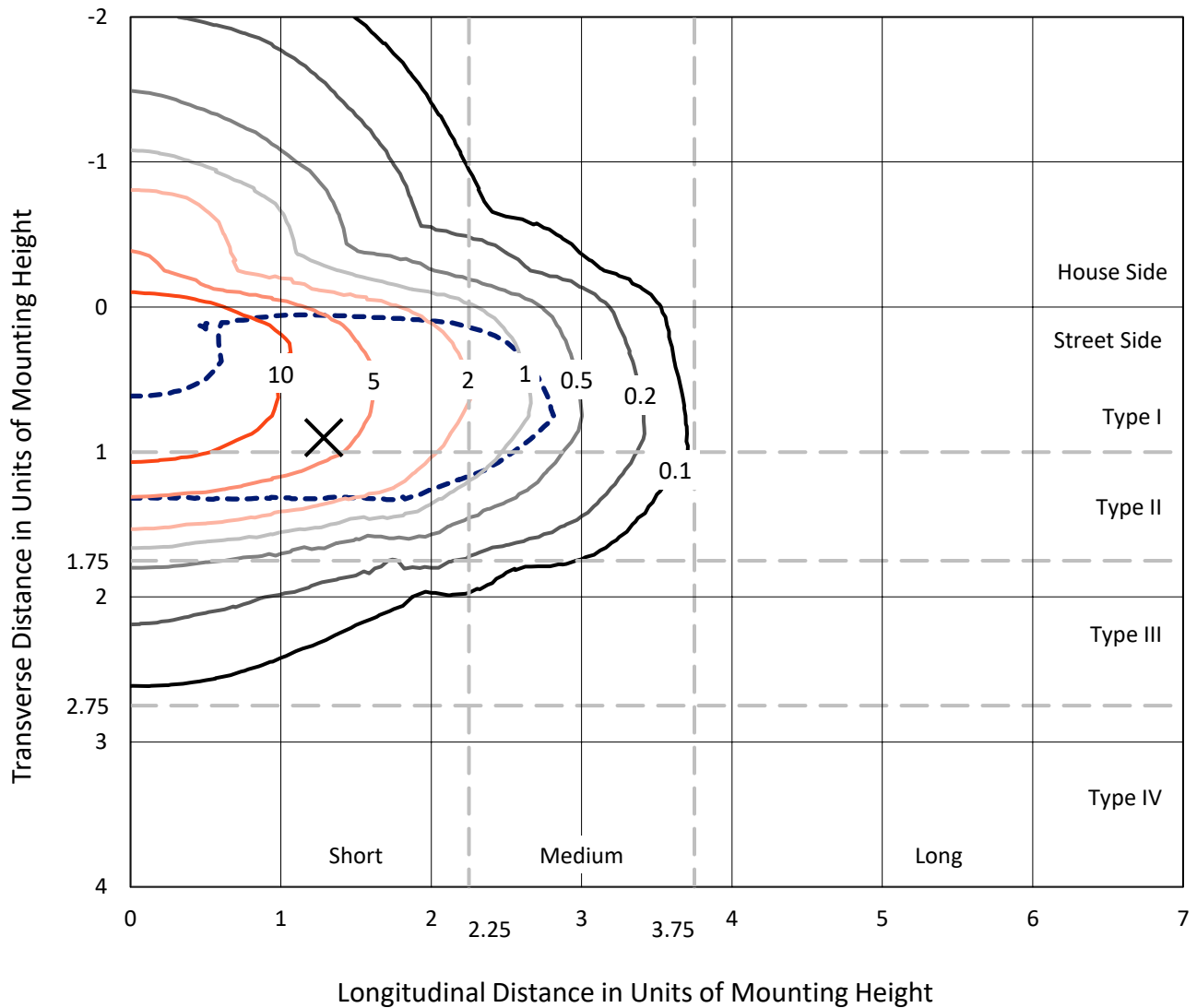
Lumens per Lamp: N/A  
Luminaire Lumens: 37777 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

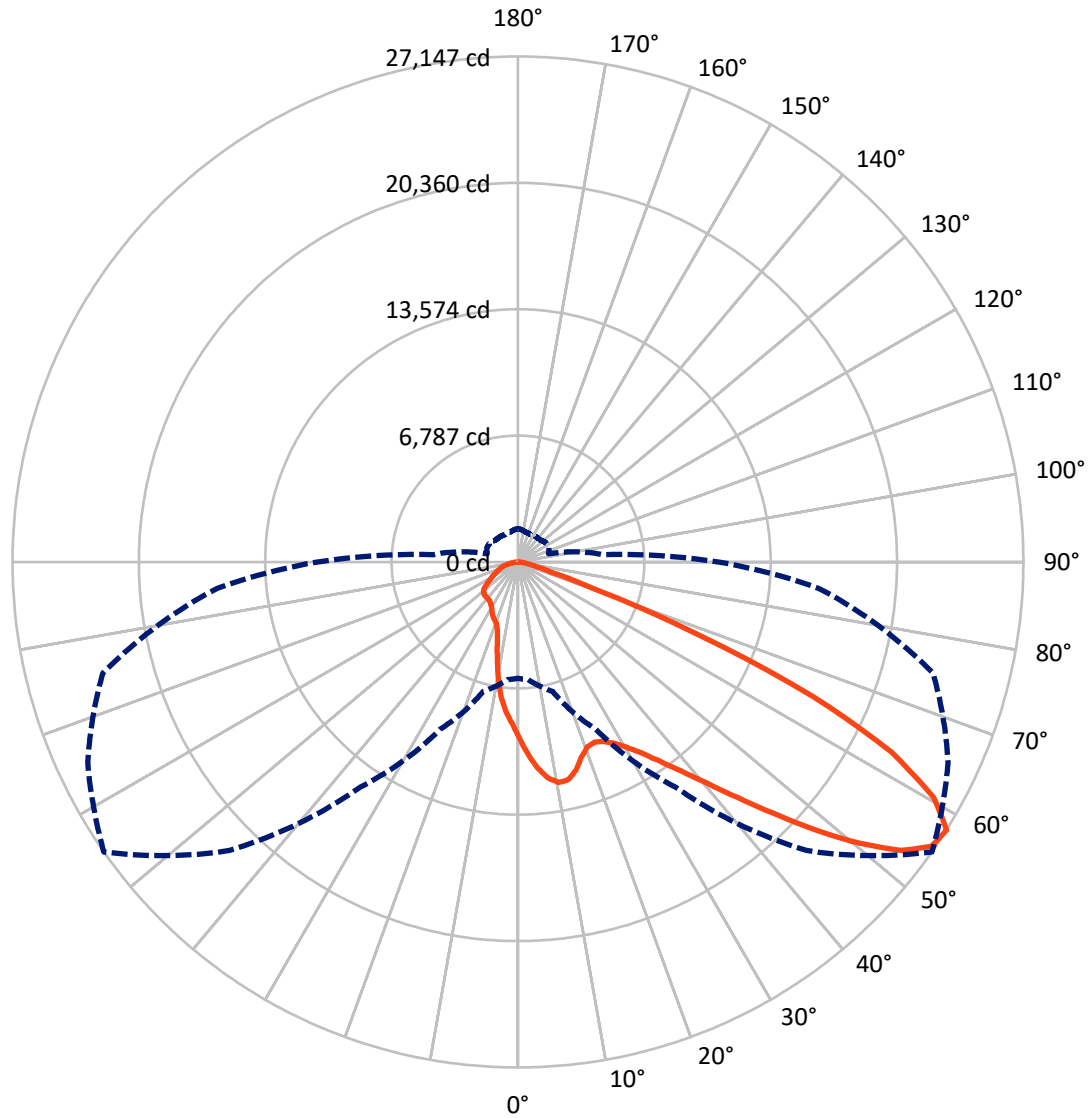
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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	6835.6	0.0	6835.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	30941.4	0.0	30941.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	37777.0	0.0	37777.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	878.4	2.3
10°-20°	2217.0	5.9
20°-30°	3537.7	9.4
30°-40°	5601.1	14.8
40°-50°	8573.1	22.7
50°-60°	9182.6	24.3
60°-70°	5776.8	15.3
70°-80°	1708.3	4.5
80°-90°	302.0	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°	37777.0	100.0
0°-180°	37777.0	100.0

**Coefficient of Utilization**



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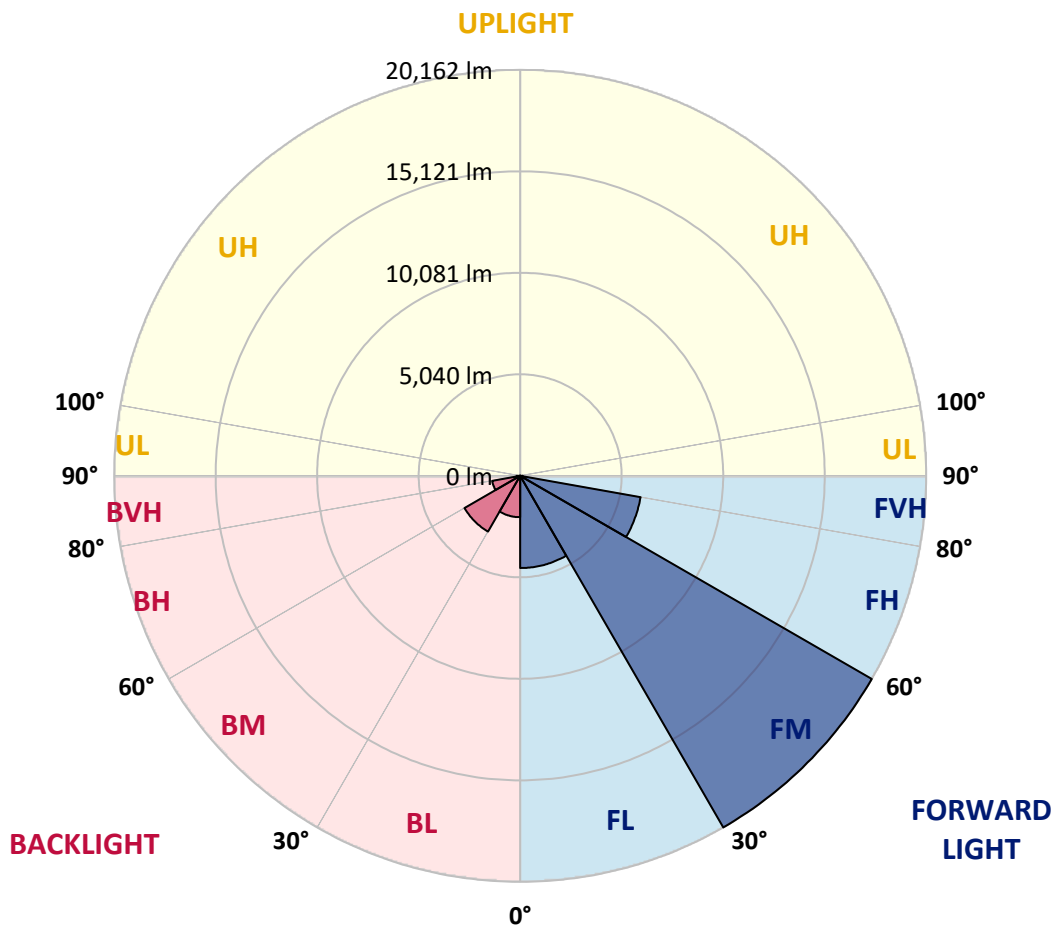
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4578.6	12.1			
FM (30°-60°)	20161.9	53.4			
FH (60°-80°)	6073.4	16.1			G3/7500
FVH (80°-90°)	127.6	0.3			G2/225
BL (0°-30°)	2054.5	5.4	B3/2500		
BM (30°-60°)	3194.9	8.5	B3/5000		
BH (60°-80°)	1411.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	174.4	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7
2.5°	10860.1	10852.2	10895.2	10748.7	10649.1	10514.4	10336.7	10110.1	9866.0	9608.3
5°	11838.5	11770.1	11815.0	11705.7	11596.3	11393.2	11129.6	10760.5	10309.3	9795.7
7.5°	11684.2	11637.3	11752.5	11850.2	11932.2	11906.8	11713.5	11326.8	10744.8	9998.8
10°	10440.2	10387.5	10549.5	10887.4	11383.4	11815.0	12049.4	11809.2	11190.1	10221.5
12.5°	9342.7	9317.3	9424.7	9698.1	10248.8	11076.8	12006.4	12231.0	11652.9	10485.1
15°	8874.0	8842.7	8911.1	9049.7	9401.2	10172.6	11615.8	12520.0	12108.0	10789.8
17.5°	8770.5	8735.3	8764.6	8836.9	9063.4	9651.2	11026.1	12662.6	12582.5	11129.6
20°	8961.8	8932.5	8936.5	8932.5	9090.7	9557.5	10615.9	12607.9	12996.5	11442.0
22.5°	9424.7	9375.9	9377.8	9274.3	9360.2	9721.5	10508.5	12461.4	13365.6	11715.4
25°	10178.5	10090.6	10108.2	9844.6	9821.1	10088.7	10676.5	12348.2	13732.8	11934.2
27.5°	11209.6	11110.0	11057.3	10664.8	10477.3	10610.1	11018.2	12387.2	14080.4	12123.6
30°	12498.5	12377.5	12270.0	11713.5	11373.7	11324.8	11549.4	12645.0	14490.5	12322.8
32.5°	14078.4	13937.8	13742.5	13004.3	12525.9	12270.0	12236.9	13103.9	14970.9	12576.7
35°	15959.1	15775.5	15498.2	14543.2	13937.8	13414.4	13143.0	13766.0	15629.0	12959.4
37.5°	17896.3	17689.3	17435.5	16298.9	15554.8	14783.4	14248.3	14664.3	16505.9	13478.9
40°	19683.2	19450.9	19214.5	18202.9	17404.2	16474.6	15601.7	15800.9	17578.0	14099.9
42.5°	20737.8	20566.0	20476.1	19929.3	19312.2	18368.9	17285.1	17148.4	18783.0	14814.7
45°	20690.9	20620.6	20897.9	21124.5	20978.0	20454.6	19257.5	18638.4	19991.8	15433.7
47.5°	19585.6	19632.5	20251.5	21524.8	22085.3	22358.7	21503.3	20101.2	21042.5	15896.6
50°	16578.1	16617.2	18050.6	20796.4	22370.4	23911.3	23731.6	21528.7	21856.8	16179.7
52.5°	14197.6	14222.9	14838.1	18636.5	21429.1	24692.4	25739.2	22874.3	22452.5	16257.9
55°	10694.1	10781.9	11471.3	14621.3	18980.2	24073.4	26961.7	24260.8	22829.4	16265.7
57.5°	6247.3	6343.0	7194.5	9924.6	14752.2	21915.4	27147.2	25491.2	23085.2	16203.2
60°	3060.2	3101.2	3472.3	5216.2	9096.6	17757.7	25655.2	26086.8	23227.8	16170.0
62.5°	2062.3	2056.4	2072.0	2573.9	4481.9	11408.8	22546.2	25043.9	23151.6	16043.0
65°	1773.2	1751.7	1693.2	1806.4	2322.0	5218.1	17419.8	21931.0	22571.6	15724.7
67.5°	1533.0	1535.0	1536.9	1501.8	1658.0	2407.9	10645.2	17275.3	20489.8	14217.1
70°	1269.4	1287.0	1294.8	1294.8	1351.4	1579.9	4544.4	11840.4	16162.2	11147.1
72.5°	1156.1	1119.0	1122.9	1103.4	1103.4	1203.0	1829.9	6712.1	10182.4	6270.8
75°	943.2	966.7	970.6	956.9	912.0	917.9	1085.8	2816.1	4356.9	2601.3
77.5°	814.4	814.4	822.2	812.4	777.3	687.4	724.5	1091.7	1482.2	1066.3
80°	654.2	652.3	685.5	705.0	650.3	507.8	462.8	603.4	658.1	468.7
82.5°	318.3	337.9	470.6	537.0	494.1	367.1	283.2	375.0	351.5	207.0
85°	185.5	175.8	210.9	298.8	283.2	203.1	136.7	195.3	183.6	105.5
87.5°	58.6	54.7	43.0	101.6	82.0	56.6	37.1	56.6	50.8	23.4
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°
9465.7	0°	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7	9465.7
9496.9	2.5°	9358.3	9127.8	8899.3	8690.4	8563.5	8481.4	8399.4	8307.6	8272.5	8219.7
9522.3	5°	9264.5	8819.3	8422.8	8081.1	7770.6	7526.5	7280.4	7081.2	6991.4	7051.9
9602.4	7.5°	9209.9	8565.4	7954.1	7327.3	6723.8	6241.5	5821.6	5526.7	5393.9	5427.1
9680.5	10°	9161.0	8278.3	7346.8	6356.7	5489.6	4892.0	4462.4	4237.8	4153.8	4171.4
9786.0	12.5°	9116.1	7956.1	6614.5	5311.9	4390.1	3995.6	3872.6	3874.5	3890.2	3901.9
9953.9	15°	9108.3	7567.5	5796.2	4397.9	3796.4	3771.0	3903.8	3987.8	4032.7	4046.4
10094.5	17.5°	9096.6	7102.7	4962.3	3774.9	3651.9	3823.8	3946.8	4001.5	4036.6	4038.6
10231.2	20°	9049.7	6512.9	4192.9	3478.1	3620.7	3769.1	3845.3	3888.2	3917.5	3927.3
10334.7	22.5°	8905.2	5856.7	3593.3	3345.3	3495.7	3614.8	3704.6	3753.5	3771.0	3782.8
10354.3	25°	8645.5	5122.4	3179.3	3218.4	3321.9	3472.3	3544.5	3554.3	3548.4	3566.0
10305.4	27.5°	8305.7	4335.4	2921.5	3046.5	3179.3	3308.2	3347.3	3341.4	3329.7	3349.2
10221.5	30°	7895.6	3628.5	2757.5	2853.2	3034.8	3152.0	3187.1	3173.5	3150.0	3171.5
10178.5	32.5°	7462.0	3050.4	2622.7	2718.4	2915.7	3030.9	3066.0	3052.4	3034.8	3052.4
10227.3	35°	7057.8	2646.2	2497.8	2628.6	2821.9	2935.2	2980.1	2982.1	2982.1	3003.6
10356.2	37.5°	6686.7	2409.9	2394.3	2572.0	2757.5	2859.0	2923.5	2927.4	2843.4	2849.3
10574.9	40°	6343.0	2310.3	2347.4	2534.9	2695.0	2792.6	2796.5	2577.8	2423.5	2419.6
10824.9	42.5°	6061.8	2290.7	2361.1	2531.0	2650.1	2654.0	2378.6	2208.7	2165.8	2167.7
11055.3	45°	5798.2	2284.9	2392.3	2531.0	2583.7	2292.7	2107.2	2062.3	2066.2	2081.8
11158.9	47.5°	5503.3	2261.5	2398.2	2495.8	2392.3	2038.8	1984.1	1964.6	1956.8	1960.7
11135.4	50°	5181.0	2177.5	2323.9	2425.5	2064.2	1929.5	1861.1	1855.3	1865.0	1870.9
11004.6	52.5°	4841.2	2040.8	2197.0	2298.6	1913.8	1833.8	1757.6	1771.3	1814.2	1827.9
10867.9	55°	4618.6	1880.6	2029.1	2044.7	1808.4	1743.9	1679.5	1710.7	1790.8	1816.2
10785.8	57.5°	4560.0	1710.7	1837.7	1820.1	1673.6	1665.8	1626.8	1654.1	1755.7	1792.8
10781.9	60°	4542.4	1558.4	1650.2	1636.5	1542.8	1579.9	1570.1	1583.8	1619.0	1630.7
10742.9	62.5°	4405.7	1437.3	1482.2	1462.7	1425.6	1490.1	1513.5	1484.2	1511.5	1525.2
10475.3	65°	4058.1	1339.7	1318.2	1304.5	1320.2	1378.7	1425.6	1367.0	1392.4	1431.5
9444.2	67.5°	3484.0	1206.9	1148.3	1163.9	1212.7	1244.0	1304.5	1238.1	1259.6	1326.0
7606.5	70°	2818.0	1038.9	986.2	1031.1	1078.0	1142.4	1152.2	1107.3	1158.1	1232.3
4642.0	72.5°	1993.9	869.0	831.9	923.7	939.3	1023.3	1001.8	980.4	1050.7	1076.0
2294.7	75°	1382.7	701.1	679.6	749.9	806.5	878.8	863.2	888.6	1037.0	1048.7
1146.4	77.5°	874.9	544.9	531.2	576.1	654.2	734.3	759.7	1048.7	1771.3	1841.6
595.6	80°	507.8	406.2	390.6	425.7	494.1	568.3	732.3	1287.0	1167.8	1154.2
267.5	82.5°	283.2	279.3	259.7	269.5	330.0	410.1	1035.0	906.1	736.2	759.7
107.4	85°	132.8	164.0	140.6	134.7	185.5	480.4	691.3	517.5	343.7	335.9
23.4	87.5°	35.2	31.2	31.2	35.2	78.1	414.0	275.4	220.7	130.8	126.9
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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