

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: P947395

Luminaire Tested: **GALN-SB2D-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947395  
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-SB2D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

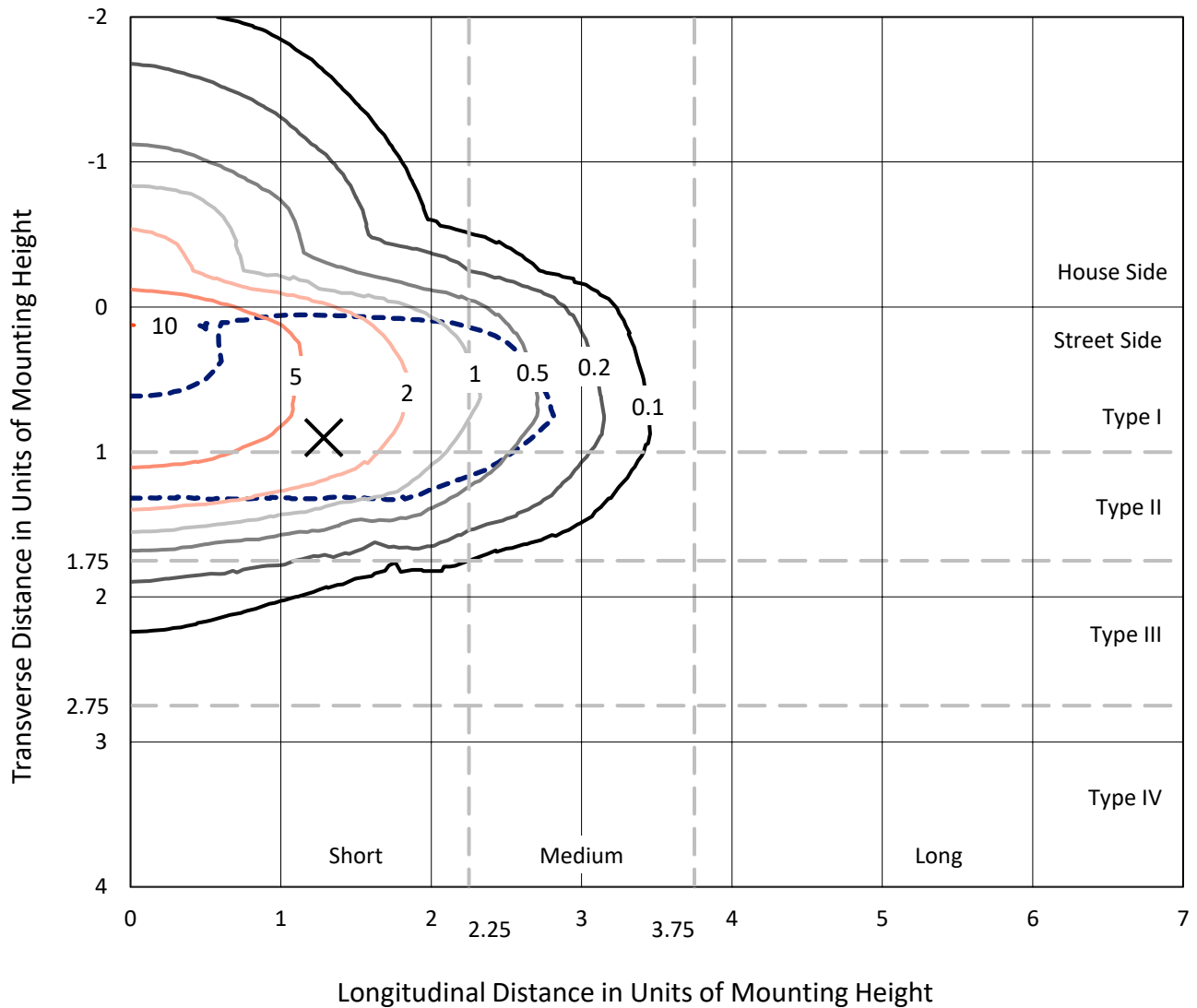
Lumens per Lamp: N/A  
Luminaire Lumens: 20697 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

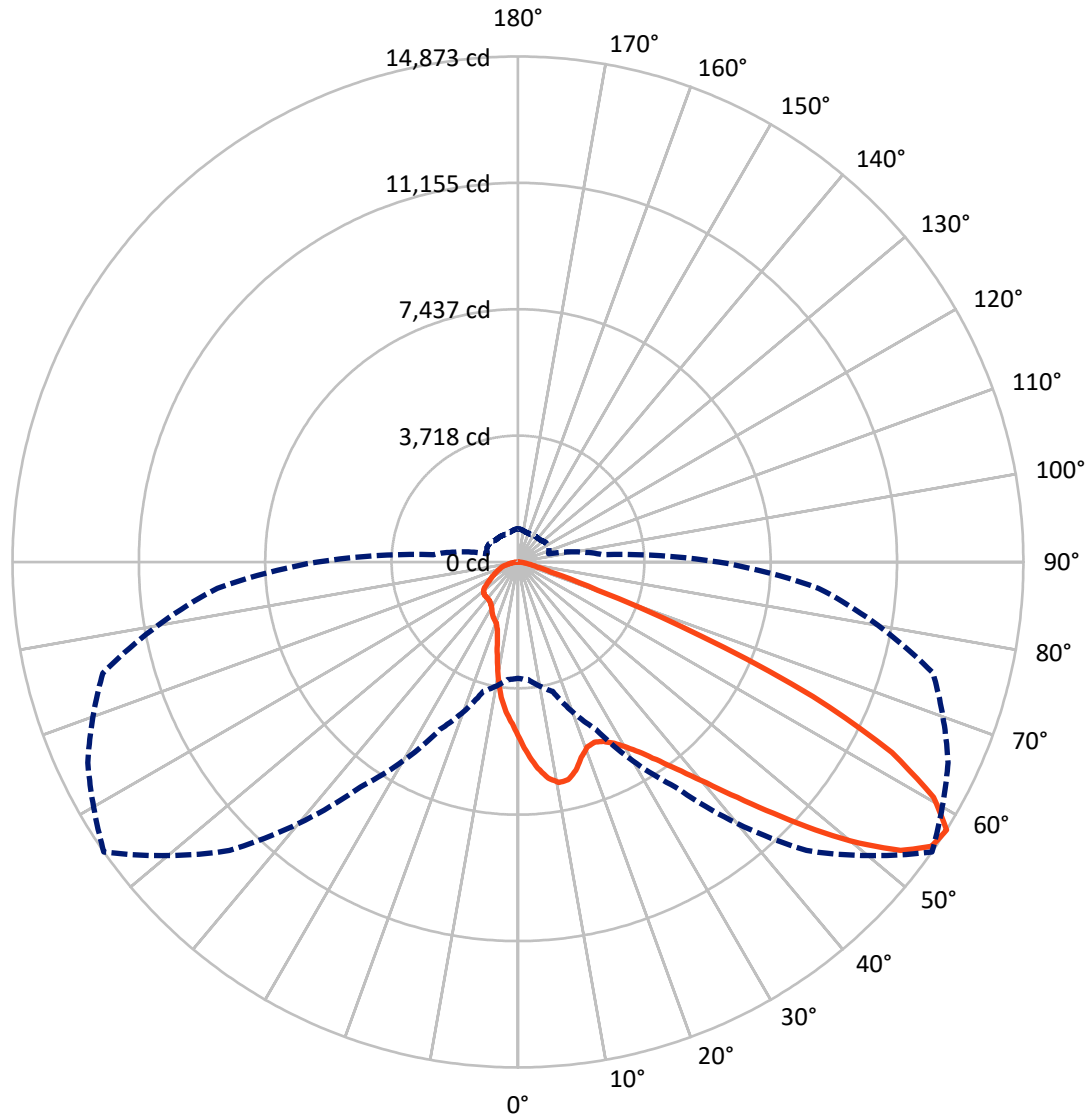
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	3745.0	0.0	3745.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	16952.0	0.0	16952.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	20697.0	0.0	20697.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.2	2.3
10°-20°	1214.6	5.9
20°-30°	1938.2	9.4
30°-40°	3068.7	14.8
40°-50°	4697.0	22.7
50°-60°	5030.9	24.3
60°-70°	3165.0	15.3
70°-80°	935.9	4.5
80°-90°	165.5	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°	20697.0	100.0
0°-180°	20697.0	100.0



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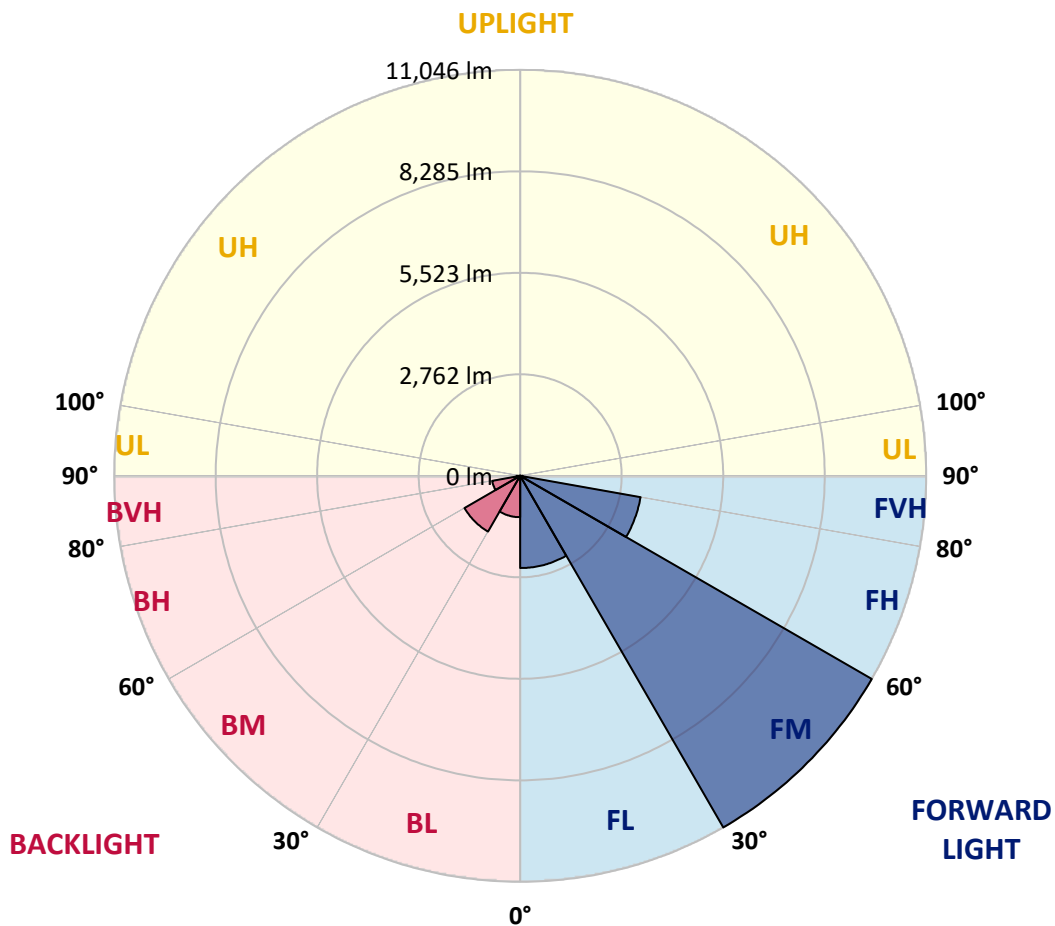
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2508.5	12.1			
FM (30°-60°)	11046.1	53.4			
FH (60°-80°)	3327.5	16.1			G2/5000
FVH (80°-90°)	69.9	0.3			G1/100
BL (0°-30°)	1125.6	5.4	B3/2500		
BM (30°-60°)	1750.4	8.5	B2/2500		
BH (60°-80°)	773.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	95.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0
2.5°	5949.9	5945.7	5969.2	5888.9	5834.4	5760.6	5663.2	5539.1	5405.3	5264.1
5°	6486.0	6448.5	6473.1	6413.2	6353.3	6242.0	6097.6	5895.4	5648.2	5366.8
7.5°	6401.4	6375.8	6438.9	6492.4	6537.3	6523.4	6417.5	6205.6	5886.8	5478.1
10°	5719.9	5691.0	5779.8	5964.9	6236.7	6473.1	6601.5	6469.9	6130.8	5600.1
12.5°	5118.6	5104.7	5163.5	5313.3	5615.0	6068.7	6578.0	6701.0	6384.3	5744.5
15°	4861.8	4844.7	4882.1	4958.1	5150.7	5573.3	6364.0	6859.4	6633.6	5911.4
17.5°	4805.1	4785.8	4801.9	4841.5	4965.6	5287.6	6040.9	6937.5	6893.6	6097.6
20°	4910.0	4893.9	4896.0	4893.9	4980.6	5236.3	5816.2	6907.5	7120.4	6268.8
22.5°	5163.5	5136.8	5137.8	5081.1	5128.2	5326.2	5757.3	6827.3	7322.7	6418.6
25°	5576.5	5528.4	5538.0	5393.6	5380.7	5527.3	5849.4	6765.2	7523.8	6538.4
27.5°	6141.5	6086.9	6058.0	5842.9	5740.2	5813.0	6036.6	6786.6	7714.3	6642.2
30°	6847.6	6781.3	6722.4	6417.5	6231.3	6204.6	6327.6	6927.9	7939.0	6751.3
32.5°	7713.2	7636.2	7529.2	7124.7	6862.6	6722.4	6704.2	7179.3	8202.2	6890.4
35°	8743.5	8643.0	8491.0	7967.8	7636.2	7349.4	7200.7	7542.0	8562.7	7100.1
37.5°	9804.9	9691.5	9552.4	8929.7	8522.1	8099.4	7806.3	8034.2	9043.1	7384.7
40°	10783.9	10656.6	10527.1	9972.9	9535.3	9026.0	8547.7	8656.9	9630.5	7725.0
42.5°	11361.7	11267.5	11218.3	10918.7	10580.6	10063.9	9470.0	9395.1	10290.7	8116.6
45°	11336.0	11297.5	11449.4	11573.5	11493.3	11206.5	10550.7	10211.5	10953.0	8455.7
47.5°	10730.4	10756.1	11095.3	11792.9	12099.9	12249.7	11781.1	11012.9	11528.6	8709.3
50°	9082.7	9104.1	9889.5	11393.8	12256.2	13100.3	13001.9	11795.0	11974.8	8864.4
52.5°	7778.5	7792.4	8129.4	10210.4	11740.4	13528.3	14101.8	12532.2	12301.1	8907.2
55°	5859.0	5907.1	6284.8	8010.6	10398.7	13189.1	14771.6	13291.9	12507.6	8911.5
57.5°	3422.7	3475.2	3941.7	5437.4	8082.3	12006.9	14873.2	13965.9	12647.8	8877.3
60°	1676.6	1699.1	1902.4	2857.8	4983.8	9729.0	14055.8	14292.3	12725.9	8859.1
62.5°	1129.9	1126.6	1135.2	1410.2	2455.5	6250.6	12352.5	13720.9	12684.1	8789.6
65°	971.5	959.7	927.6	989.7	1272.2	2858.9	9543.9	12015.4	12366.4	8615.2
67.5°	839.9	841.0	842.0	822.8	908.4	1319.2	5832.2	9464.7	11225.8	7789.2
70°	695.5	705.1	709.4	709.4	740.4	865.6	2489.7	6487.0	8854.8	6107.2
72.5°	633.4	613.1	615.2	604.5	604.5	659.1	1002.5	3677.4	5578.7	3435.6
75°	516.8	529.6	531.8	524.3	499.7	502.9	594.9	1542.9	2387.0	1425.2
77.5°	446.2	446.2	450.4	445.1	425.8	376.6	396.9	598.1	812.1	584.2
80°	358.4	357.4	375.5	386.2	356.3	278.2	253.6	330.6	360.6	256.8
82.5°	174.4	185.1	257.9	294.2	270.7	201.1	155.1	205.4	192.6	113.4
85°	101.6	96.3	115.6	163.7	155.1	111.3	74.9	107.0	100.6	57.8
87.5°	32.1	30.0	23.5	55.6	44.9	31.0	20.3	31.0	27.8	12.8
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°
5186.0	0°	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0	5186.0
5203.1	2.5°	5127.1	5000.9	4875.7	4761.2	4691.7	4646.7	4601.8	4551.5	4532.3	4503.4
5217.0	5°	5075.8	4831.8	4614.6	4427.4	4257.3	4123.5	3988.7	3879.6	3830.4	3863.6
5260.9	7.5°	5045.8	4692.8	4357.9	4014.4	3683.8	3419.5	3189.5	3027.9	2955.2	2973.4
5303.7	10°	5019.1	4535.5	4025.1	3482.7	3007.6	2680.2	2444.8	2321.8	2275.8	2285.4
5361.5	12.5°	4994.5	4358.9	3623.9	2910.2	2405.2	2189.1	2121.7	2122.8	2131.3	2137.7
5453.5	15°	4990.2	4146.0	3175.6	2409.5	2080.0	2066.1	2138.8	2184.8	2209.4	2216.9
5530.5	17.5°	4983.8	3891.4	2718.7	2068.2	2000.8	2094.9	2162.3	2192.3	2211.6	2212.6
5605.4	20°	4958.1	3568.2	2297.2	1905.6	1983.7	2065.0	2106.7	2130.2	2146.3	2151.6
5662.1	22.5°	4878.9	3208.7	1968.7	1832.8	1915.2	1980.5	2029.7	2056.4	2066.1	2072.5
5672.8	25°	4736.6	2806.5	1741.9	1763.3	1820.0	1902.4	1941.9	1947.3	1944.1	1953.7
5646.1	27.5°	4550.5	2375.3	1600.6	1669.1	1741.9	1812.5	1833.9	1830.7	1824.2	1834.9
5600.1	30°	4325.8	1987.9	1510.8	1563.2	1662.7	1726.9	1746.1	1738.7	1725.8	1737.6
5576.5	32.5°	4088.2	1671.2	1436.9	1489.4	1597.4	1660.5	1679.8	1672.3	1662.7	1672.3
5603.3	35°	3866.8	1449.8	1368.5	1440.1	1546.1	1608.1	1632.7	1633.8	1633.8	1645.6
5673.9	37.5°	3663.5	1320.3	1311.7	1409.1	1510.8	1566.4	1601.7	1603.8	1557.8	1561.0
5793.7	40°	3475.2	1265.7	1286.1	1388.8	1476.5	1530.0	1532.2	1412.3	1327.8	1325.7
5930.7	42.5°	3321.1	1255.0	1293.6	1386.6	1451.9	1454.0	1303.2	1210.1	1186.6	1187.6
6056.9	45°	3176.7	1251.8	1310.7	1386.6	1415.5	1256.1	1154.5	1129.9	1132.0	1140.6
6113.6	47.5°	3015.1	1239.0	1313.9	1367.4	1310.7	1117.0	1087.1	1076.4	1072.1	1074.2
6100.8	50°	2838.5	1193.0	1273.2	1328.9	1130.9	1057.1	1019.7	1016.4	1021.8	1025.0
6029.1	52.5°	2652.4	1118.1	1203.7	1259.3	1048.5	1004.7	962.9	970.4	994.0	1001.5
5954.2	55°	2530.4	1030.4	1111.7	1120.2	990.8	955.5	920.1	937.3	981.1	995.0
5909.3	57.5°	2498.3	937.3	1006.8	997.2	916.9	912.7	891.3	906.2	961.9	982.2
5907.1	60°	2488.7	853.8	904.1	896.6	845.3	865.6	860.2	867.7	887.0	893.4
5885.7	62.5°	2413.8	787.5	812.1	801.4	781.1	816.4	829.2	813.2	828.1	835.6
5739.2	65°	2223.3	734.0	722.2	714.7	723.3	755.4	781.1	749.0	762.9	784.3
5174.2	67.5°	1908.8	661.2	629.1	637.7	664.4	681.6	714.7	678.3	690.1	726.5
4167.4	70°	1543.9	569.2	540.3	564.9	590.6	625.9	631.3	606.7	634.5	675.1
2543.2	72.5°	1092.4	476.1	455.8	506.1	514.6	560.6	548.9	537.1	575.6	589.5
1257.2	75°	757.5	384.1	372.3	410.9	441.9	481.5	472.9	486.8	568.1	574.6
628.1	77.5°	479.3	298.5	291.0	315.6	358.4	402.3	416.2	574.6	970.4	1009.0
326.3	80°	278.2	222.5	214.0	233.2	270.7	311.4	401.2	705.1	639.8	632.3
146.6	82.5°	155.1	153.0	142.3	147.7	180.8	224.7	567.1	496.5	403.4	416.2
58.8	85°	72.8	89.9	77.0	73.8	101.6	263.2	378.8	283.5	188.3	184.0
12.8	87.5°	19.3	17.1	17.1	19.3	42.8	226.8	150.9	120.9	71.7	69.5
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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