

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: P950692

Luminaire Tested: **GALN-SB5A-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950692  
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-SB5A-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

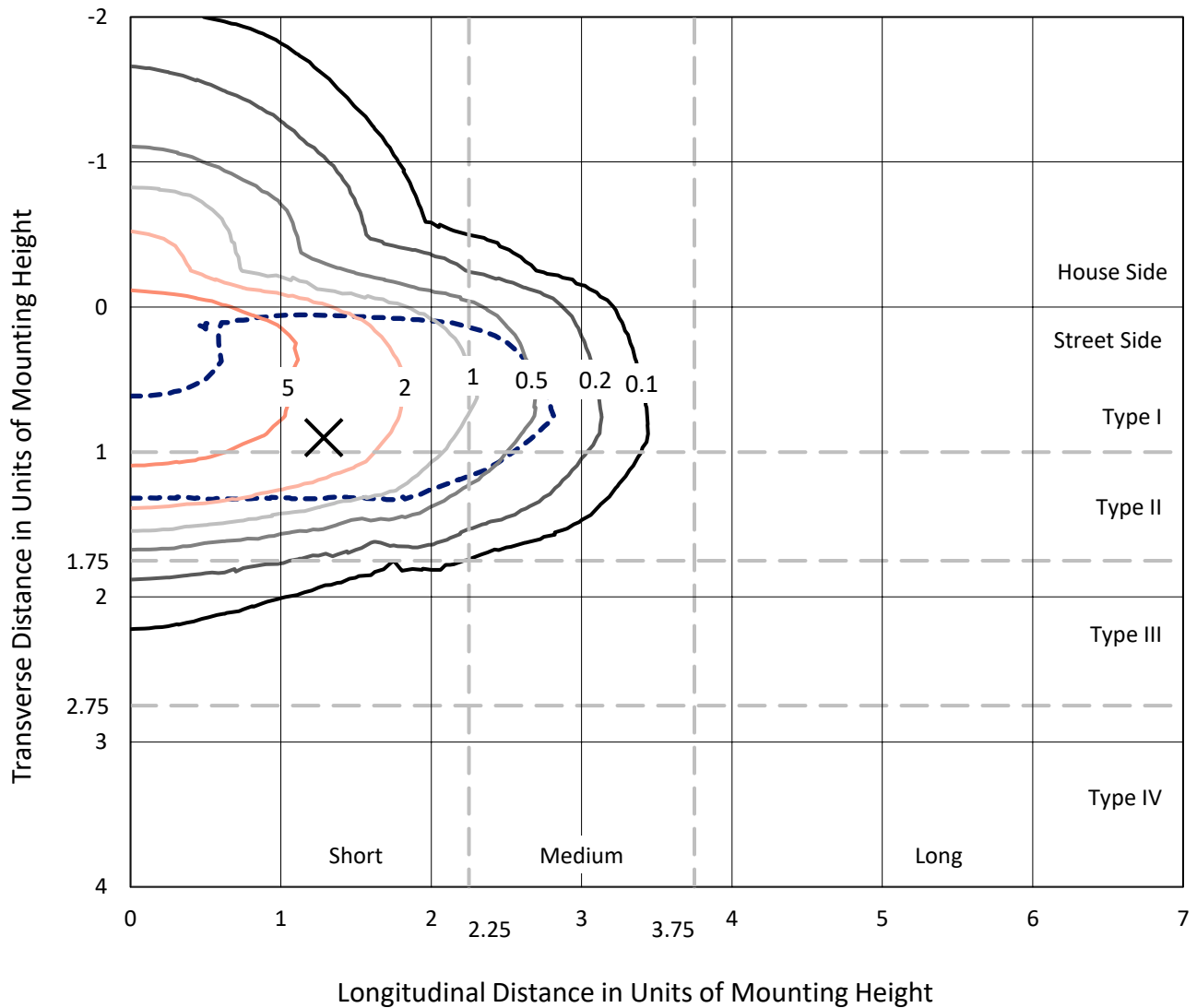
Lumens per Lamp: N/A  
Luminaire Lumens: 20039 lumens  
Efficiency: N/A  
Efficacy: 141.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

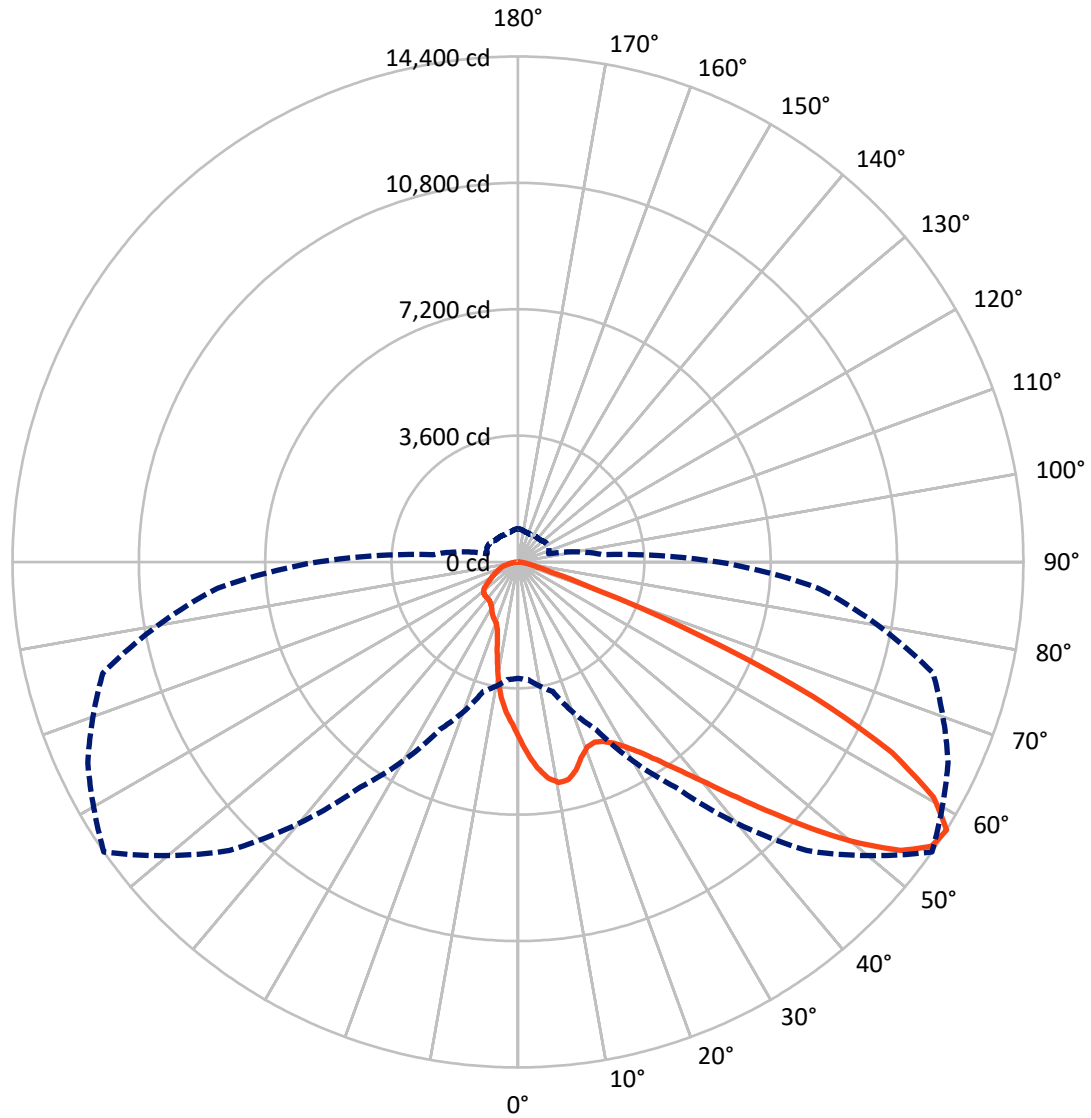
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	3625.9	0.0	3625.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	16413.0	0.0	16413.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	20039.0	0.0	20039.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.9	2.3
10°-20°	1176.0	5.9
20°-30°	1876.6	9.4
30°-40°	2971.1	14.8
40°-50°	4547.6	22.7
50°-60°	4870.9	24.3
60°-70°	3064.3	15.3
70°-80°	906.2	4.5
80°-90°	160.2	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°	20039.0	100.0
0°-180°	20039.0	100.0

**Coefficient of Utilization**



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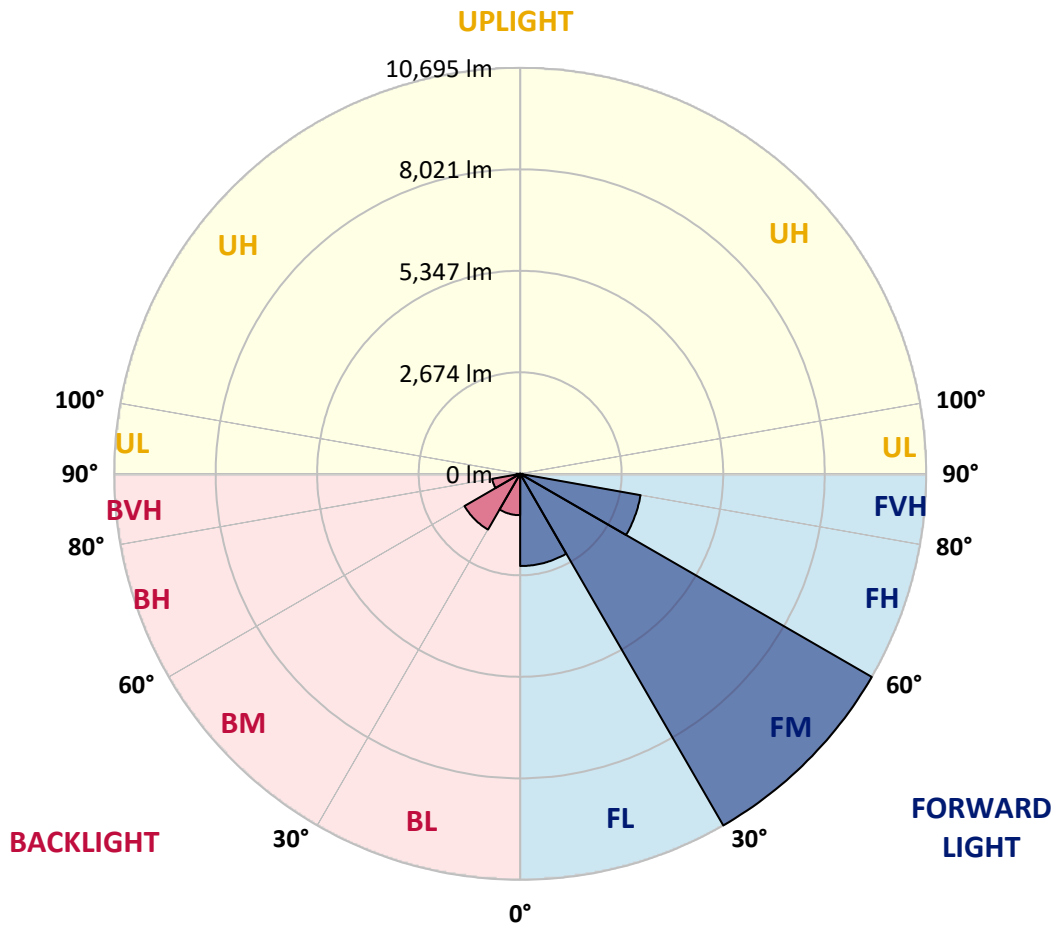
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2428.7	12.1			
FM (30°-60°)	10695.0	53.4			
FH (60°-80°)	3221.7	16.1			G2/5000
FVH (80°-90°)	67.7	0.3			G1/100
BL (0°-30°)	1089.8	5.4	B3/2500		
BM (30°-60°)	1694.7	8.5	B2/2500		
BH (60°-80°)	748.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	92.5	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°	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1
2.5°	5760.8	5756.6	5779.4	5701.7	5648.9	5577.4	5483.1	5363.0	5233.5	5096.7
5°	6279.8	6243.5	6267.3	6209.3	6151.3	6043.6	5903.7	5707.9	5468.6	5196.2
7.5°	6197.9	6173.1	6234.2	6286.0	6329.5	6316.0	6213.5	6008.4	5699.7	5303.9
10°	5538.0	5510.1	5596.1	5775.3	6038.4	6267.3	6391.7	6264.2	5935.8	5422.0
12.5°	4955.9	4942.4	4999.4	5144.4	5436.5	5875.8	6368.9	6488.0	6181.4	5561.9
15°	4707.2	4690.7	4726.9	4800.5	4986.9	5396.1	6161.7	6641.3	6422.7	5723.5
17.5°	4652.3	4633.7	4649.2	4687.6	4807.7	5119.5	5848.8	6716.9	6674.5	5903.7
20°	4753.9	4738.3	4740.4	4738.3	4822.2	5069.8	5631.3	6687.9	6894.1	6069.5
22.5°	4999.4	4973.5	4974.5	4919.6	4965.2	5156.8	5574.3	6610.2	7089.9	6214.5
25°	5399.2	5352.6	5361.9	5222.1	5209.7	5351.6	5663.4	6550.1	7284.6	6330.5
27.5°	5946.2	5893.4	5865.4	5657.2	5557.7	5628.2	5844.7	6570.9	7469.0	6431.0
30°	6629.9	6565.7	6508.7	6213.5	6033.2	6007.3	6126.5	6707.6	7686.6	6536.7
32.5°	7468.0	7393.4	7289.8	6898.2	6644.4	6508.7	6491.1	6951.0	7941.4	6671.3
35°	8465.6	8368.2	8221.1	7714.5	7393.4	7115.8	6971.8	7302.2	8290.5	6874.4
37.5°	9493.2	9383.4	9248.7	8645.8	8251.1	7841.9	7558.1	7778.8	8755.6	7149.9
40°	10441.1	10317.8	10192.5	9655.8	9232.2	8739.1	8276.0	8381.7	9324.4	7479.4
42.5°	11000.5	10909.3	10861.7	10571.6	10244.3	9743.9	9169.0	9096.4	9963.5	7858.5
45°	10975.6	10938.3	11085.4	11205.6	11127.9	10850.3	10215.2	9886.9	10604.8	8186.9
47.5°	10389.3	10414.1	10742.5	11418.0	11715.3	11860.3	11406.6	10662.8	11162.1	8432.4
50°	8794.0	8814.7	9575.0	11031.6	11866.5	12683.9	12588.5	11420.0	11594.1	8582.6
52.5°	7531.2	7544.6	7870.9	9885.8	11367.2	13098.2	13653.5	12133.8	11910.0	8624.1
55°	5672.7	5719.3	6085.0	7756.0	10068.1	12769.8	14302.0	12869.3	12109.9	8628.2
57.5°	3313.9	3364.7	3816.3	5264.6	7825.4	11625.1	14400.4	13521.9	12245.7	8595.1
60°	1623.3	1645.0	1841.9	2767.0	4825.3	9419.7	13608.9	13837.9	12321.3	8577.4
62.5°	1093.9	1090.8	1099.1	1365.3	2377.4	6051.9	11959.7	13284.7	12280.9	8510.1
65°	940.6	929.2	898.1	958.2	1231.7	2768.0	9240.4	11633.4	11973.2	8341.3
67.5°	813.2	814.2	815.3	796.6	879.5	1277.3	5646.8	9163.8	10868.9	7541.5
70°	673.4	682.7	686.8	686.8	716.9	838.1	2410.6	6280.8	8573.3	5913.1
72.5°	613.3	593.6	595.7	585.3	585.3	638.1	970.7	3560.5	5401.3	3326.4
75°	500.4	512.8	514.9	507.6	483.8	486.9	576.0	1493.8	2311.1	1379.9
77.5°	432.0	432.0	436.1	430.9	412.3	364.6	384.3	579.1	786.3	565.6
80°	347.0	346.0	363.6	374.0	345.0	269.3	245.5	320.1	349.1	248.6
82.5°	168.9	179.2	249.7	284.9	262.1	194.8	150.2	198.9	186.5	109.8
85°	98.4	93.2	111.9	158.5	150.2	107.7	72.5	103.6	97.4	55.9
87.5°	31.1	29.0	22.8	53.9	43.5	30.0	19.7	30.0	26.9	12.4
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°
5021.1	0°	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1	5021.1
5037.7	2.5°	4964.1	4841.9	4720.7	4609.9	4542.5	4499.0	4455.5	4406.8	4388.2	4360.2
5051.2	5°	4914.4	4678.2	4467.9	4286.7	4121.9	3992.5	3861.9	3756.3	3708.6	3740.7
5093.6	7.5°	4885.4	4543.6	4219.3	3886.8	3566.7	3310.8	3088.1	2931.7	2861.2	2878.8
5135.1	10°	4859.5	4391.3	3897.1	3371.9	2912.0	2595.0	2367.1	2248.0	2203.4	2212.7
5191.0	12.5°	4835.7	4220.4	3508.7	2817.7	2328.8	2119.5	2054.2	2055.3	2063.6	2069.8
5280.1	15°	4831.5	4014.2	3074.6	2332.9	2013.8	2000.4	2070.8	2115.4	2139.2	2146.4
5354.7	17.5°	4825.3	3767.7	2632.3	2002.4	1937.2	2028.3	2093.6	2122.6	2141.3	2142.3
5427.2	20°	4800.5	3454.8	2224.1	1845.0	1920.6	1999.3	2039.7	2062.5	2078.1	2083.2
5482.1	22.5°	4723.8	3106.7	1906.1	1774.5	1854.3	1917.5	1965.1	1991.0	2000.4	2006.6
5492.5	25°	4586.0	2717.2	1686.5	1707.2	1762.1	1841.9	1880.2	1885.4	1882.3	1891.6
5466.6	27.5°	4405.8	2299.8	1549.7	1616.0	1686.5	1754.9	1775.6	1772.5	1766.3	1776.6
5422.0	30°	4188.2	1924.7	1462.7	1513.5	1609.8	1672.0	1690.6	1683.4	1670.9	1682.3
5399.2	32.5°	3958.3	1618.1	1391.2	1442.0	1546.6	1607.8	1626.4	1619.1	1609.8	1619.1
5425.1	35°	3743.8	1403.7	1324.9	1394.4	1496.9	1557.0	1580.8	1581.9	1581.9	1593.3
5493.5	37.5°	3547.0	1278.3	1270.0	1364.3	1462.7	1516.6	1550.8	1552.8	1508.3	1511.4
5609.5	40°	3364.7	1225.5	1245.2	1344.6	1429.6	1481.4	1483.4	1367.4	1285.6	1283.5
5742.1	42.5°	3215.5	1215.1	1252.4	1342.6	1405.7	1407.8	1261.8	1171.6	1148.8	1149.9
5864.4	45°	3075.7	1212.0	1269.0	1342.6	1370.5	1216.2	1117.8	1093.9	1096.0	1104.3
5919.3	47.5°	2919.2	1199.6	1272.1	1323.9	1269.0	1081.5	1052.5	1042.1	1038.0	1040.1
5906.8	50°	2748.3	1155.1	1232.7	1286.6	1095.0	1023.5	987.2	984.1	989.3	992.4
5837.4	52.5°	2568.1	1082.5	1165.4	1219.3	1015.2	972.7	932.3	939.6	962.4	969.6
5764.9	55°	2450.0	997.6	1076.3	1084.6	959.3	925.1	890.9	907.5	949.9	963.4
5721.4	57.5°	2418.9	907.5	974.8	965.5	887.8	883.6	862.9	877.4	931.3	951.0
5719.3	60°	2409.6	826.7	875.4	868.1	818.4	838.1	832.9	840.1	858.8	865.0
5698.6	62.5°	2337.0	762.4	786.3	775.9	756.2	790.4	802.8	787.3	801.8	809.1
5556.7	65°	2152.6	710.6	699.2	692.0	700.3	731.4	756.2	725.1	738.6	759.3
5009.7	67.5°	1848.1	640.2	609.1	617.4	643.3	659.9	692.0	656.8	668.2	703.4
4034.9	70°	1494.8	551.1	523.1	547.0	571.8	606.0	611.2	587.4	614.3	653.7
2462.4	72.5°	1057.7	461.0	441.3	490.0	498.3	542.8	531.4	520.0	557.3	570.8
1217.2	75°	733.4	371.9	360.5	397.8	427.8	466.2	457.9	471.3	550.1	556.3
608.1	77.5°	464.1	289.0	281.8	305.6	347.0	389.5	403.0	556.3	939.6	976.9
316.0	80°	269.3	215.5	207.2	225.8	262.1	301.5	388.5	682.7	619.5	612.2
141.9	82.5°	150.2	148.1	137.8	143.0	175.1	217.5	549.0	480.7	390.5	403.0
57.0	85°	70.4	87.0	74.6	71.5	98.4	254.8	366.7	274.5	182.3	178.2
12.4	87.5°	18.6	16.6	16.6	18.6	41.4	219.6	146.1	117.1	69.4	67.3
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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