

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: P954366

Luminaire Tested: **GALN-SB7C-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

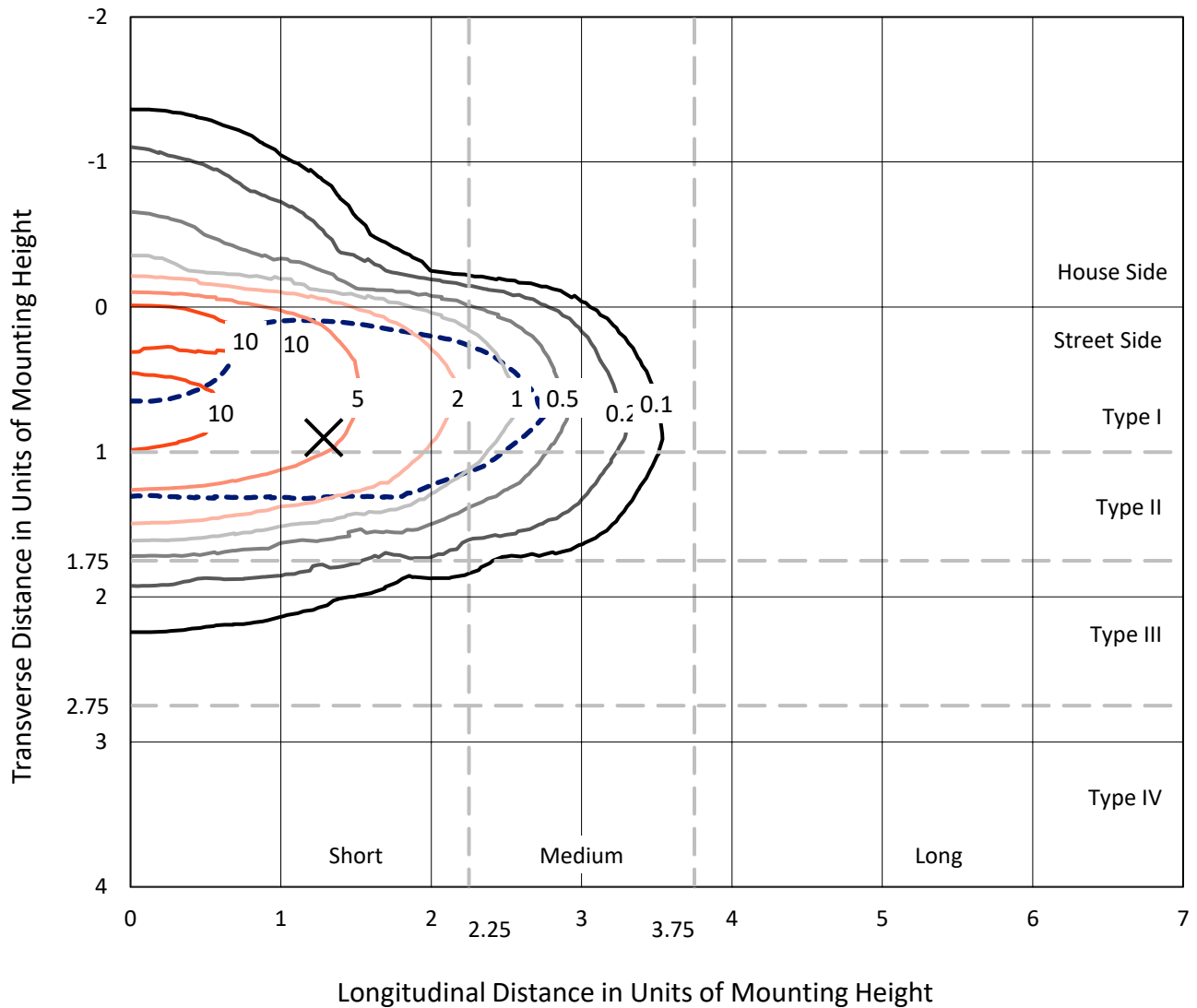
Lumens per Lamp: N/A  
Luminaire Lumens: 27641 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

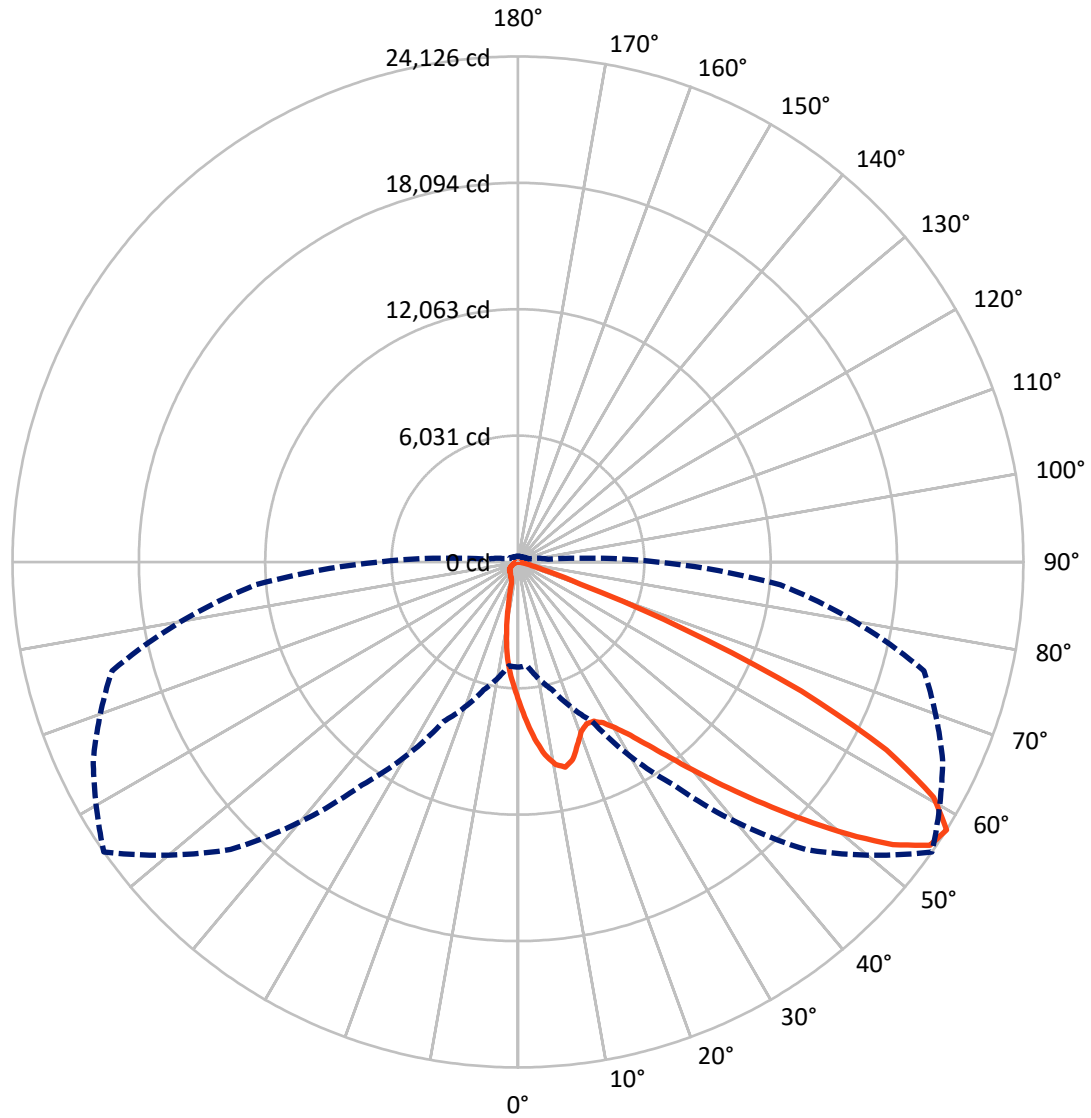
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	2158.6	0.0	2158.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	25482.4	0.0	25482.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	27641.0	0.0	27641.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	619.7	2.2
10°-20°	1497.0	5.4
20°-30°	2395.2	8.7
30°-40°	4054.0	14.7
40°-50°	6655.8	24.1
50°-60°	7315.2	26.5
60°-70°	4196.0	15.2
70°-80°	857.4	3.1
80°-90°	50.6	0.2
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°	27641.0	100.0
0°-180°	27641.0	100.0

**Coefficient of Utilization**



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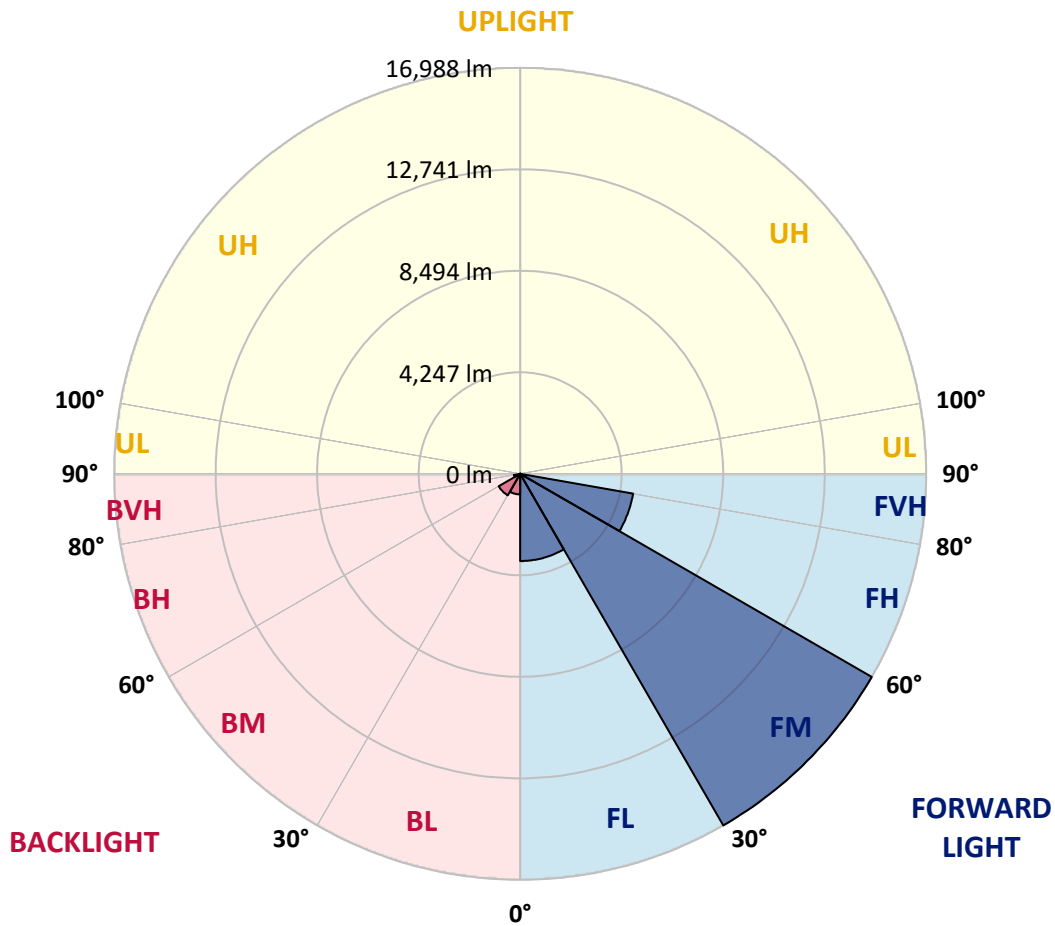
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3650.2	13.2			
FM (30°-60°)	16988.4	61.5			
FH (60°-80°)	4796.7	17.4			G2/5000
FVH (80°-90°)	47.2	0.2			G1/100
BL (0°-30°)	861.8	3.1	B2/1000		
BM (30°-60°)	1036.7	3.8	B2/2500		
BH (60°-80°)	256.7	0.9	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8
2.5°	8264.6	8160.7	8145.3	8124.9	7927.2	7778.9	7564.1	7328.9	7064.7	6795.4
5°	9548.1	9466.2	9450.9	9355.5	9130.5	8878.2	8496.4	8014.1	7521.5	6942.0
7.5°	9796.9	9781.6	9851.4	9848.0	9817.4	9617.9	9295.8	8721.4	7981.7	7122.7
10°	8687.3	8726.5	8934.5	9116.8	9609.4	9895.8	9825.9	9352.0	8455.5	7328.9
12.5°	7676.6	7630.6	7778.9	7985.1	8557.8	9410.0	10045.7	9878.7	8997.5	7562.4
15°	7042.6	7023.8	7107.4	7202.8	7639.1	8498.1	9790.1	10306.5	9519.1	7838.5
17.5°	6839.8	6824.4	6850.0	6873.8	7156.8	7821.5	9181.6	10569.0	10018.5	8153.9
20°	7005.1	6984.6	6981.2	6962.5	7080.1	7533.5	8631.1	10587.7	10466.7	8440.2
22.5°	7487.4	7463.6	7380.1	7305.1	7315.3	7572.7	8385.7	10400.3	10804.2	8707.8
25°	8361.8	8322.6	8148.7	7896.5	7736.3	7845.4	8423.2	10153.1	11126.3	8917.4
27.5°	9456.0	9404.9	9181.6	8806.6	8440.2	8307.3	8694.2	9982.7	11393.9	9077.6
30°	10528.1	10461.6	10241.7	9950.3	9415.1	8995.8	9183.3	10057.7	11712.6	9244.7
32.5°	11685.4	11622.3	11330.9	10969.5	10526.4	9962.2	9853.1	10424.1	12103.0	9478.2
35°	13149.5	13050.6	12636.4	12143.9	11673.4	11102.5	10759.9	11056.5	12622.8	9834.4
37.5°	14816.4	14683.4	14236.9	13556.8	12943.2	12304.1	11864.3	11925.7	13384.7	10311.6
40°	16387.8	16266.8	15854.3	15213.5	14443.1	13667.6	13198.9	13062.5	14436.3	10892.8
42.5°	17330.4	17221.3	17047.4	16776.4	16127.0	15336.2	14744.8	14449.9	15680.5	11588.2
45°	17383.2	17287.7	17521.2	17836.6	17708.7	17182.1	16461.1	15920.8	16929.8	12241.0
47.5°	16537.8	16473.0	17182.1	18283.1	18831.9	19053.5	18388.8	17269.0	17961.0	12709.7
50°	14233.5	14209.6	15668.6	17690.0	19259.7	20693.1	20422.1	18523.4	18760.3	12951.7
52.5°	12341.6	12254.6	13105.1	15791.3	18637.6	21555.6	22409.5	19754.0	19319.4	12997.8
55°	9360.6	9283.9	10350.8	12614.3	16631.5	21248.8	23863.3	21023.8	19719.9	12880.2
57.5°	5021.2	4973.4	6321.6	8395.9	13001.2	19408.0	24125.8	22366.9	20057.4	12568.3
60°	1954.9	1946.4	2450.9	4073.5	7901.6	15789.6	22801.5	23173.0	20268.7	12184.8
62.5°	1182.9	1208.4	1290.2	1828.8	3490.6	9808.8	19748.9	22256.1	20410.2	11833.7
65°	978.3	980.0	990.3	1256.1	1672.0	4104.2	14867.5	19239.3	20060.8	11208.1
67.5°	838.6	853.9	893.1	997.1	1179.4	1799.8	8559.5	14903.3	17935.4	9752.6
70°	661.3	681.8	731.2	819.8	910.2	1126.6	3163.4	9916.2	13701.7	7351.1
72.5°	557.3	555.6	581.2	666.4	722.7	792.5	1216.9	5556.3	7963.0	3509.4
75°	431.2	448.3	480.6	557.3	591.4	574.4	659.6	2029.9	2853.2	1063.5
77.5°	337.5	351.1	380.1	455.1	489.2	407.4	380.1	726.1	917.0	381.8
80°	151.7	163.6	259.1	335.8	398.8	281.2	206.2	371.6	407.4	173.8
82.5°	27.3	46.0	151.7	177.3	204.5	182.4	107.4	192.6	199.4	69.9
85°	1.7	3.4	52.8	64.8	81.8	59.7	32.4	76.7	66.5	23.9
87.5°	0.0	0.0	0.0	1.7	1.7	8.5	10.2	13.6	10.2	8.5
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°
6660.8	0°	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8	6660.8
6676.1	2.5°	6553.4	6311.4	6076.2	5883.6	5771.1	5580.2	5454.1	5433.6	5380.8	5426.8
6693.2	5°	6427.3	5994.4	5556.3	5164.3	4842.2	4426.3	4116.1	3984.9	3870.7	3909.9
6737.5	7.5°	6367.6	5684.2	5002.4	4332.6	3644.0	2979.3	2485.0	2278.8	2122.0	2144.1
6786.9	10°	6287.5	5362.0	4293.4	3270.7	2348.7	1692.5	1351.6	1225.5	1155.6	1157.3
6860.2	12.5°	6226.2	4976.9	3470.2	2217.4	1430.0	1080.6	974.9	944.2	923.8	925.5
6971.0	15°	6195.5	4523.5	2657.2	1477.7	1022.6	915.3	889.7	876.1	862.4	860.7
7093.7	17.5°	6144.4	4019.0	1944.7	1078.9	894.8	857.3	835.2	819.8	802.8	799.4
7199.4	20°	6067.7	3446.3	1421.5	911.9	838.6	809.6	778.9	758.5	738.0	734.6
7265.9	22.5°	5926.2	2841.2	1092.5	843.7	797.7	765.3	727.8	703.9	683.5	680.1
7233.5	25°	5663.7	2273.7	920.4	801.1	761.9	722.7	681.8	649.4	630.6	627.2
7163.6	27.5°	5331.4	1786.2	835.2	761.9	715.8	680.1	634.0	603.4	586.3	582.9
7071.6	30°	4939.4	1375.5	785.7	717.6	661.3	630.6	589.7	564.2	553.9	553.9
7006.8	32.5°	4516.7	1099.3	765.3	673.2	613.6	579.5	547.1	536.9	533.5	531.8
7042.6	35°	4119.5	954.5	755.0	637.4	571.0	538.6	525.0	526.7	533.5	533.5
7153.4	37.5°	3766.7	908.4	749.9	611.9	533.5	504.5	513.0	528.4	521.5	521.5
7347.7	40°	3448.0	913.6	746.5	593.1	502.8	485.8	502.8	490.9	473.8	472.1
7584.6	42.5°	3204.3	956.2	739.7	577.8	484.0	472.1	465.3	446.6	444.8	448.3
7830.0	45°	3027.0	993.7	738.0	571.0	463.6	441.4	432.9	414.2	448.3	456.8
7930.6	47.5°	2817.4	993.7	738.0	547.1	429.5	421.0	407.4	386.9	421.0	429.5
7835.1	50°	2546.4	930.6	709.0	519.8	402.2	397.1	373.3	347.7	340.9	346.0
7611.9	52.5°	2203.8	816.4	635.7	482.3	375.0	364.7	335.8	317.0	311.9	311.9
7211.3	55°	1813.5	683.5	536.9	427.8	346.0	327.2	306.8	298.3	293.2	289.7
6650.6	57.5°	1474.3	560.7	431.2	380.1	318.7	294.9	288.0	277.8	269.3	264.2
6181.9	60°	1210.1	441.4	356.2	337.5	291.5	269.3	267.6	254.0	231.8	228.4
5795.0	62.5°	934.0	323.8	300.0	293.2	264.2	245.4	242.0	214.8	180.7	173.8
5246.1	65°	659.6	252.3	242.0	257.4	235.2	218.2	209.6	168.7	132.9	127.8
4390.5	67.5°	463.6	211.3	190.9	225.0	204.5	182.4	177.3	143.2	110.8	107.4
3320.2	70°	330.7	172.1	156.8	192.6	163.6	160.2	150.0	119.3	90.3	86.9
1643.0	72.5°	233.5	131.2	121.0	167.0	112.5	138.1	122.7	92.0	68.2	64.8
559.0	75°	172.1	93.7	85.2	97.2	81.8	104.0	86.9	61.4	42.6	40.9
252.3	77.5°	126.1	59.7	51.1	47.7	47.7	64.8	47.7	25.6	18.7	17.0
127.8	80°	88.6	27.3	23.9	20.5	18.7	15.3	6.8	3.4	1.7	1.7
44.3	82.5°	52.8	11.9	11.9	8.5	5.1	0.0	0.0	0.0	0.0	0.0
17.0	85°	11.9	5.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.8	87.5°	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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