

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: P956529

Luminaire Tested: **GALN-SB9A-930-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956529  
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-SB9A-930-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

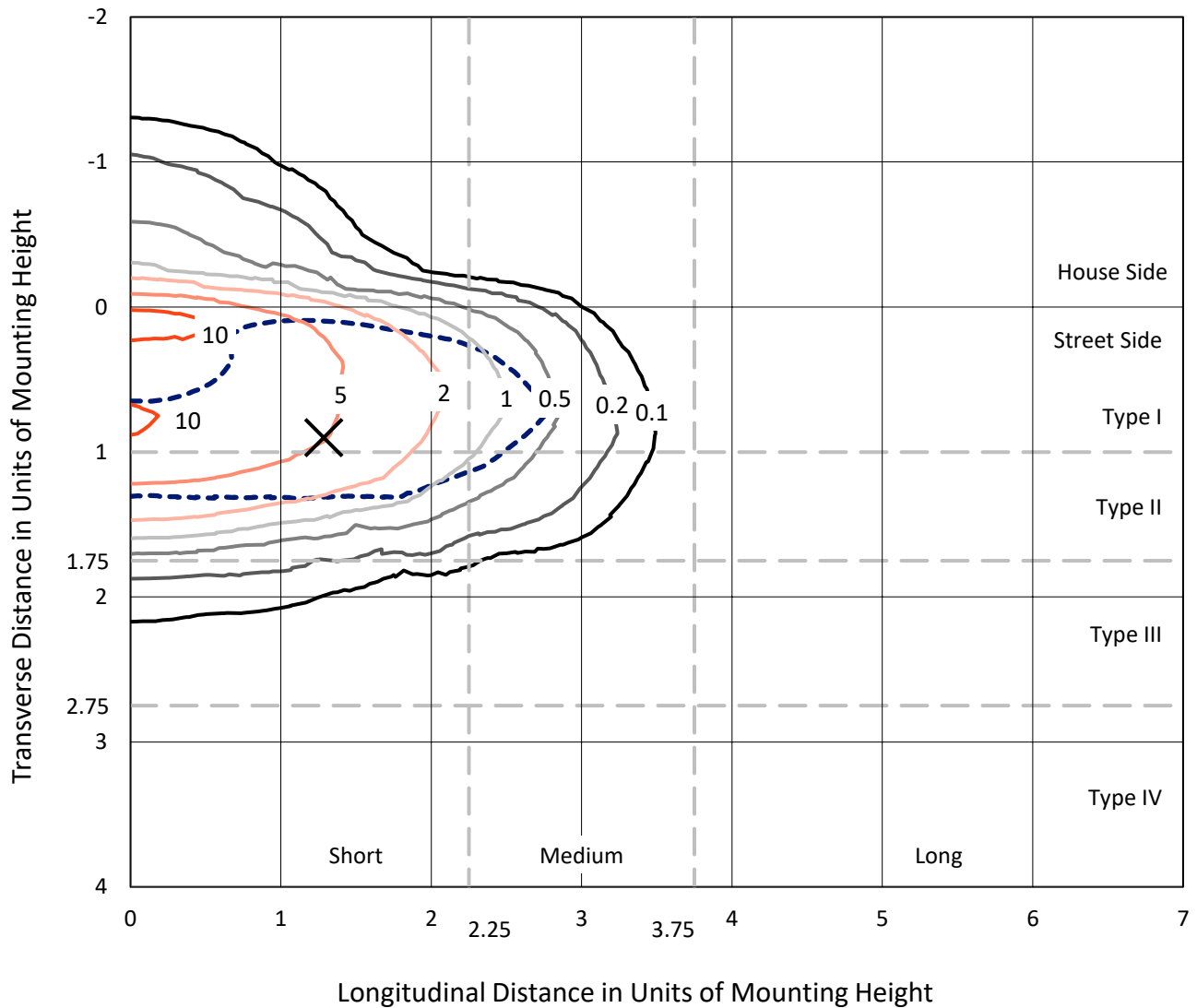
Lumens per Lamp: N/A  
Luminaire Lumens: 24234 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

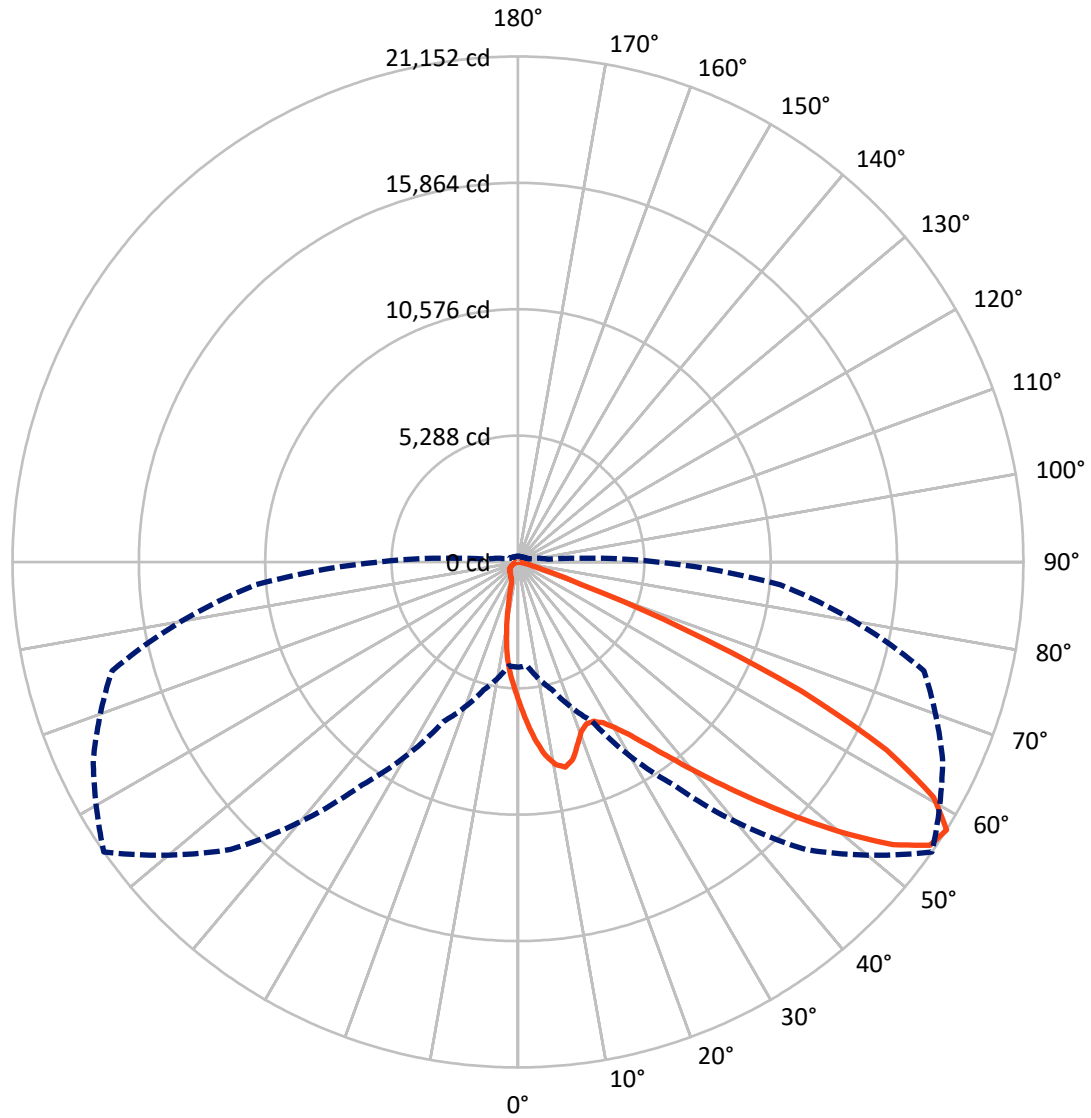
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	1892.6	0.0	1892.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	22341.4	0.0	22341.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	24234.0	0.0	24234.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.4	2.2
10°-20°	1312.5	5.4
20°-30°	2100.0	8.7
30°-40°	3554.3	14.7
40°-50°	5835.4	24.1
50°-60°	6413.6	26.5
60°-70°	3678.8	15.2
70°-80°	751.7	3.1
80°-90°	44.3	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°	24234.0	100.0
0°-180°	24234.0	100.0

**Coefficient of Utilization**



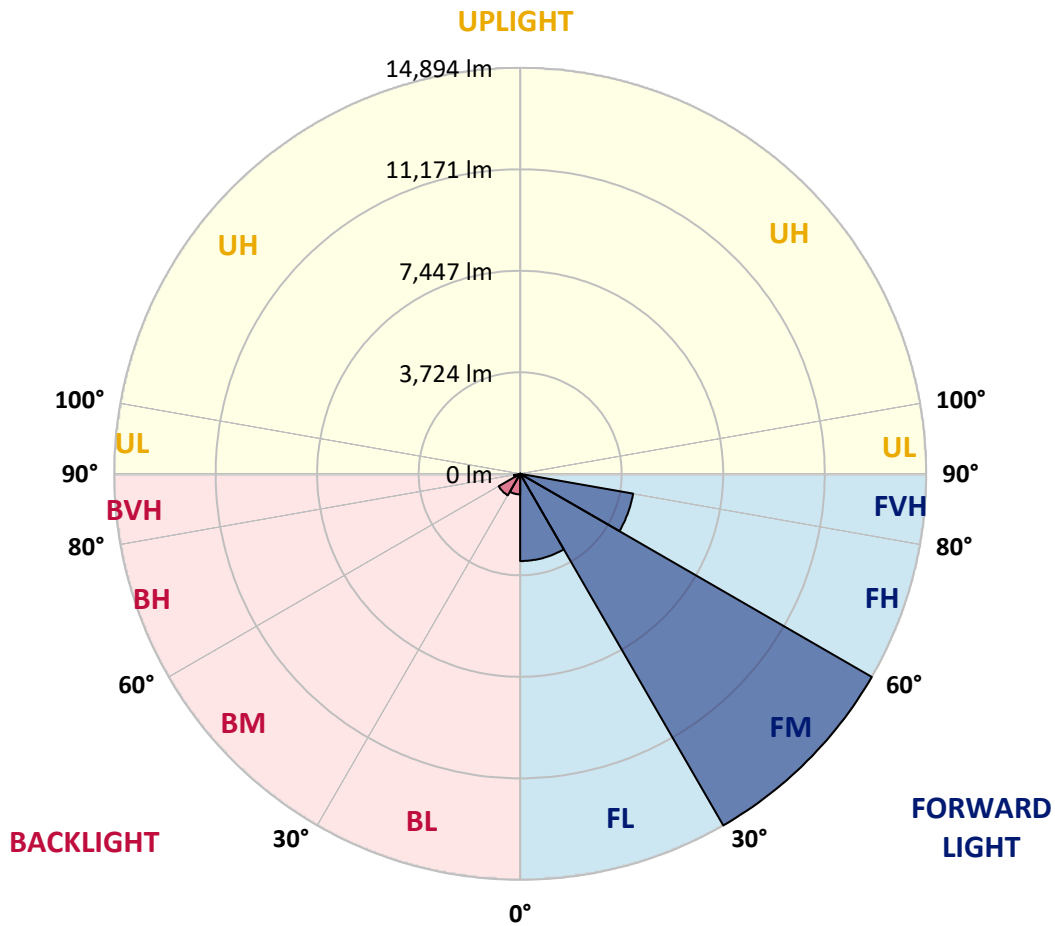
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3200.2	13.2			
FM (30°-60°)	14894.4	61.5			
FH (60°-80°)	4205.4	17.4			G2/5000
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	755.6	3.1	B2/1000		
BM (30°-60°)	908.9	3.8	B1/1000		
BH (60°-80°)	225.1	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8
2.5°	7246.0	7154.8	7141.3	7123.4	6950.1	6820.1	6631.8	6425.6	6194.0	5957.8
5°	8371.2	8299.4	8286.0	8202.3	8005.1	7783.9	7449.2	7026.3	6594.4	6086.4
7.5°	8589.3	8575.9	8637.2	8634.2	8607.3	8432.4	8150.0	7646.4	6997.9	6244.8
10°	7616.5	7650.9	7833.2	7993.1	8425.0	8676.0	8614.7	8199.3	7413.3	6425.6
12.5°	6730.4	6690.1	6820.1	7000.9	7503.0	8250.1	8807.5	8661.1	7888.5	6630.3
15°	6174.5	6158.1	6231.3	6315.0	6697.5	7450.7	8583.4	9036.1	8345.8	6872.4
17.5°	5996.7	5983.3	6005.7	6026.6	6274.6	6857.4	8049.9	9266.3	8783.6	7148.8
20°	6141.6	6123.7	6120.7	6104.3	6207.4	6604.9	7567.2	9282.7	9176.6	7399.9
22.5°	6564.5	6543.6	6470.4	6404.6	6413.6	6639.3	7352.0	9118.3	9472.5	7634.5
25°	7331.1	7296.8	7144.3	6923.2	6782.7	6878.3	7384.9	8901.7	9754.9	7818.3
27.5°	8290.5	8245.6	8049.9	7721.1	7399.9	7283.3	7622.5	8752.2	9989.5	7958.7
30°	9230.4	9172.1	8979.4	8723.8	8254.6	7887.0	8051.4	8818.0	10269.0	8105.2
32.5°	10245.0	10189.8	9934.2	9617.4	9228.9	8734.3	8638.7	9139.3	10611.2	8309.9
35°	11528.7	11442.0	11078.9	10647.0	10234.6	9734.0	9433.6	9693.6	11066.9	8622.2
37.5°	12990.1	12873.6	12482.0	11885.8	11347.9	10787.5	10402.0	10455.7	11734.9	9040.6
40°	14367.9	14261.8	13900.2	13338.3	12662.9	11982.9	11572.0	11452.5	12656.9	9550.2
42.5°	15194.2	15098.6	14946.2	14708.6	14139.2	13445.9	12927.3	12668.8	13747.7	10159.9
45°	15240.6	15156.9	15361.6	15638.0	15526.0	15064.2	14432.1	13958.4	14843.1	10732.2
47.5°	14499.4	14442.6	15064.2	16029.6	16510.7	16705.0	16122.2	15140.4	15747.1	11143.1
50°	12479.1	12458.1	13737.3	15509.5	16885.8	18142.5	17904.9	16240.3	16448.0	11355.3
52.5°	10820.4	10744.2	11489.8	13844.9	16340.4	18898.6	19647.3	17319.2	16938.1	11395.7
55°	8206.8	8139.6	9075.0	11059.5	14581.6	18629.7	20922.0	18432.4	17289.3	11292.6
57.5°	4402.3	4360.4	5542.4	7361.0	11398.7	17015.8	21152.1	19609.9	17585.1	11019.1
60°	1714.0	1706.5	2148.8	3571.4	6927.7	13843.4	19991.0	20316.8	17770.4	10682.9
62.5°	1037.1	1059.5	1131.2	1603.4	3060.4	8599.8	17314.7	19512.8	17894.5	10375.1
65°	857.7	859.2	868.2	1101.3	1465.9	3598.3	13034.9	16867.9	17588.1	9826.6
67.5°	735.2	748.7	783.0	874.2	1034.1	1578.0	7504.5	13066.3	15724.7	8550.5
70°	579.8	597.7	641.1	718.8	798.0	987.7	2773.5	8693.9	12012.8	6445.0
72.5°	488.6	487.1	509.6	584.3	633.6	694.9	1066.9	4871.5	6981.5	3076.8
75°	378.1	393.0	421.4	488.6	518.5	503.6	578.3	1779.7	2501.5	932.5
77.5°	295.9	307.8	333.2	399.0	428.9	357.1	333.2	636.6	803.9	334.7
80°	133.0	143.5	227.1	294.4	349.7	246.6	180.8	325.8	357.1	152.4
82.5°	23.9	40.3	133.0	155.4	179.3	159.9	94.1	168.9	174.8	61.3
85°	1.5	3.0	46.3	56.8	71.7	52.3	28.4	67.2	58.3	20.9
87.5°	0.0	0.0	0.0	1.5	1.5	7.5	9.0	12.0	9.0	7.5
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°
5839.8	0°	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8	5839.8
5853.2	2.5°	5745.7	5533.5	5327.2	5158.4	5059.8	4892.4	4781.8	4763.9	4717.6	4757.9
5868.2	5°	5635.1	5255.5	4871.5	4527.8	4245.4	3880.7	3608.8	3493.7	3393.6	3428.0
5907.0	7.5°	5582.8	4983.6	4385.8	3798.6	3194.9	2612.1	2178.7	1997.9	1860.4	1879.9
5950.4	10°	5512.5	4701.1	3764.2	2867.6	2059.2	1483.9	1185.0	1074.4	1013.1	1014.6
6014.6	12.5°	5458.7	4363.4	3042.4	1944.1	1253.7	947.4	854.8	827.9	809.9	811.4
6111.8	15°	5431.8	3965.9	2329.6	1295.6	896.6	802.4	780.0	768.1	756.1	754.6
6219.4	17.5°	5387.0	3523.6	1705.0	945.9	784.5	751.6	732.2	718.8	703.8	700.8
6312.0	20°	5319.8	3021.5	1246.3	799.5	735.2	709.8	682.9	665.0	647.0	644.1
6370.3	22.5°	5195.7	2491.0	957.9	739.7	699.3	670.9	638.1	617.2	599.2	596.2
6341.9	25°	4965.6	1993.4	806.9	702.3	668.0	633.6	597.7	569.3	552.9	549.9
6280.6	27.5°	4674.2	1566.0	732.2	668.0	627.6	596.2	555.9	529.0	514.0	511.1
6199.9	30°	4330.5	1205.9	688.9	629.1	579.8	552.9	517.0	494.6	485.7	485.7
6143.1	32.5°	3959.9	963.8	670.9	590.3	538.0	508.1	479.7	470.7	467.7	466.2
6174.5	35°	3611.8	836.8	662.0	558.9	500.6	472.2	460.3	461.7	467.7	467.7
6271.7	37.5°	3302.4	796.5	657.5	536.5	467.7	442.3	449.8	463.2	457.3	457.3
6442.0	40°	3023.0	801.0	654.5	520.0	440.8	425.9	440.8	430.4	415.4	413.9
6649.7	42.5°	2809.3	838.3	648.5	506.6	424.4	413.9	407.9	391.5	390.0	393.0
6864.9	45°	2653.9	871.2	647.0	500.6	406.5	387.0	379.6	363.1	393.0	400.5
6953.1	47.5°	2470.1	871.2	647.0	479.7	376.6	369.1	357.1	339.2	369.1	376.6
6869.4	50°	2232.5	815.9	621.6	455.8	352.7	348.2	327.3	304.8	298.9	303.3
6673.6	52.5°	1932.2	715.8	557.4	422.9	328.8	319.8	294.4	277.9	273.5	273.5
6322.5	55°	1590.0	599.2	470.7	375.1	303.3	286.9	269.0	261.5	257.0	254.0
5830.8	57.5°	1292.6	491.6	378.1	333.2	279.4	258.5	252.5	243.6	236.1	231.6
5419.9	60°	1061.0	387.0	312.3	295.9	255.5	236.1	234.6	222.7	203.2	200.2
5080.7	62.5°	818.9	283.9	263.0	257.0	231.6	215.2	212.2	188.3	158.4	152.4
4599.5	65°	578.3	221.2	212.2	225.6	206.2	191.3	183.8	147.9	116.6	112.1
3849.4	67.5°	406.5	185.3	167.4	197.3	179.3	159.9	155.4	125.5	97.1	94.1
2910.9	70°	289.9	150.9	137.5	168.9	143.5	140.5	131.5	104.6	79.2	76.2
1440.5	72.5°	204.7	115.1	106.1	146.4	98.6	121.0	107.6	80.7	59.8	56.8
490.1	75°	150.9	82.2	74.7	85.2	71.7	91.2	76.2	53.8	37.4	35.9
221.2	77.5°	110.6	52.3	44.8	41.8	41.8	56.8	41.8	22.4	16.4	14.9
112.1	80°	77.7	23.9	20.9	17.9	16.4	13.4	6.0	3.0	1.5	1.5
38.9	82.5°	46.3	10.5	10.5	7.5	4.5	0.0	0.0	0.0	0.0	0.0
14.9	85°	10.5	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	1.5	1.5	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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