

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: P950523

Luminaire Tested: **GALN-SB4D-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950523  
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-SB4D-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

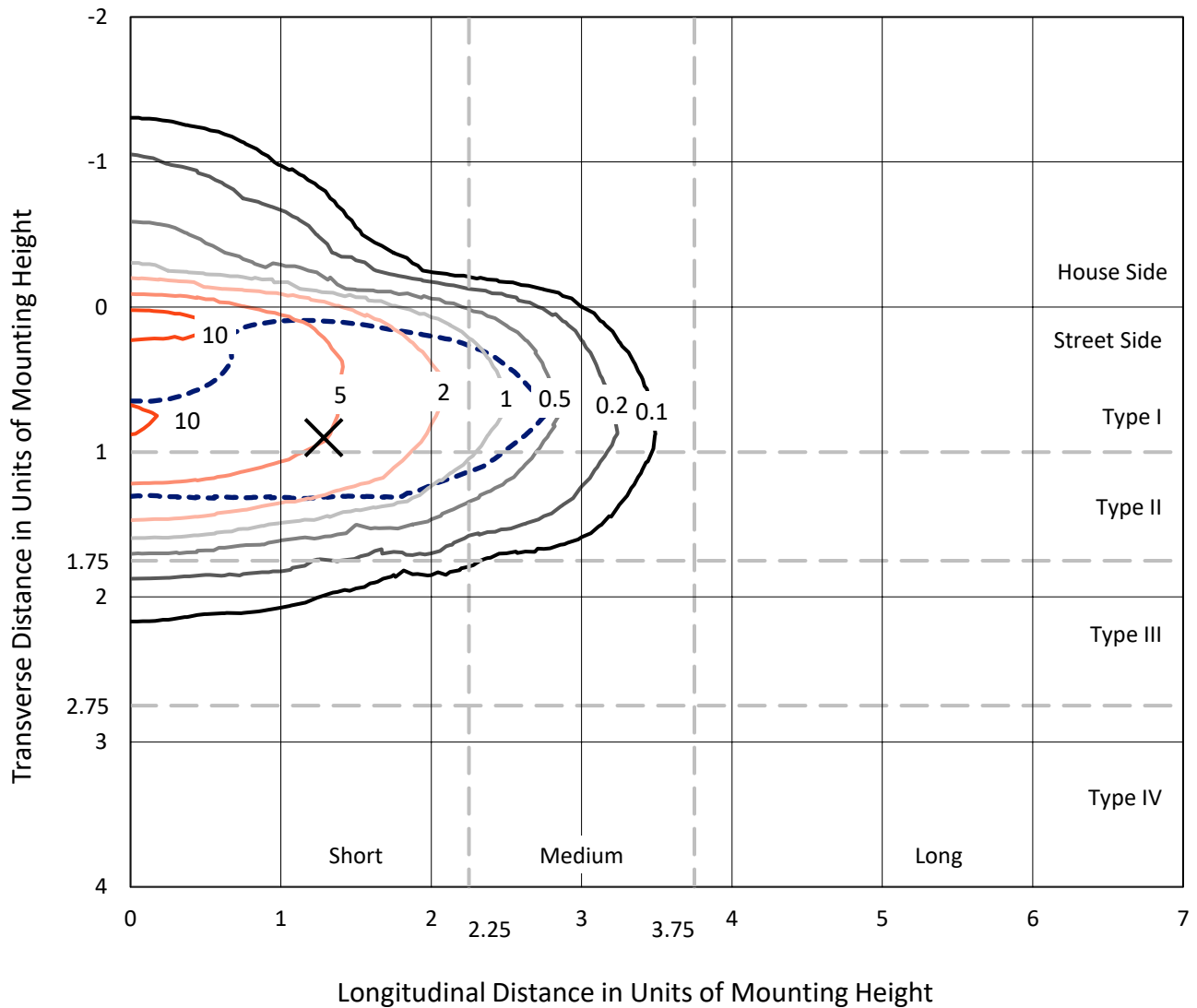
Lumens per Lamp: N/A  
Luminaire Lumens: 24190 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

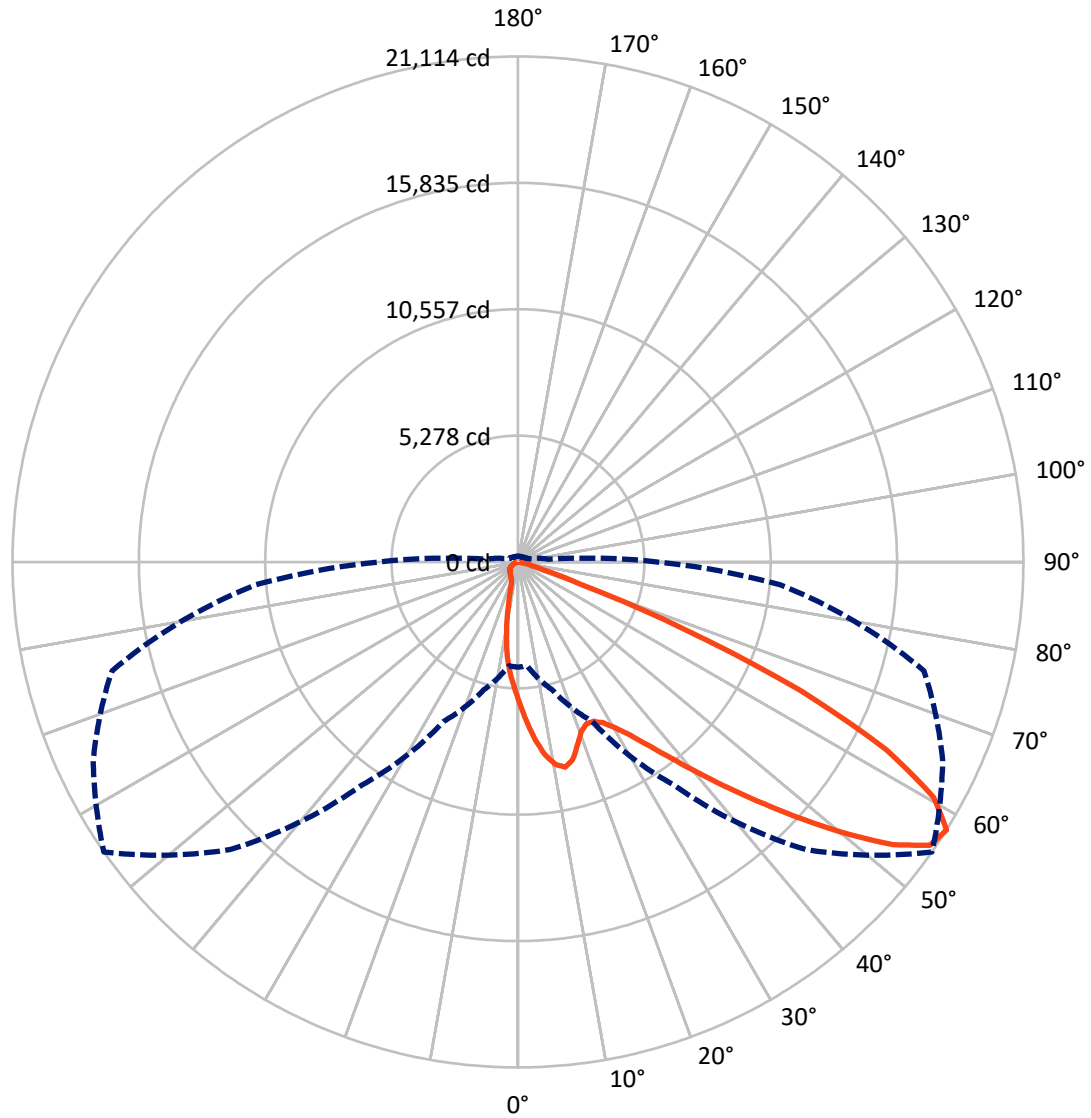
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1889.1	0.0	1889.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	22300.9	0.0	22300.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	24190.0	0.0	24190.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.4	2.2
10°-20°	1310.1	5.4
20°-30°	2096.2	8.7
30°-40°	3547.9	14.7
40°-50°	5824.8	24.1
50°-60°	6401.9	26.5
60°-70°	3672.1	15.2
70°-80°	750.3	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°	24190.0	100.0
0°-180°	24190.0	100.0

**Coefficient of Utilization**



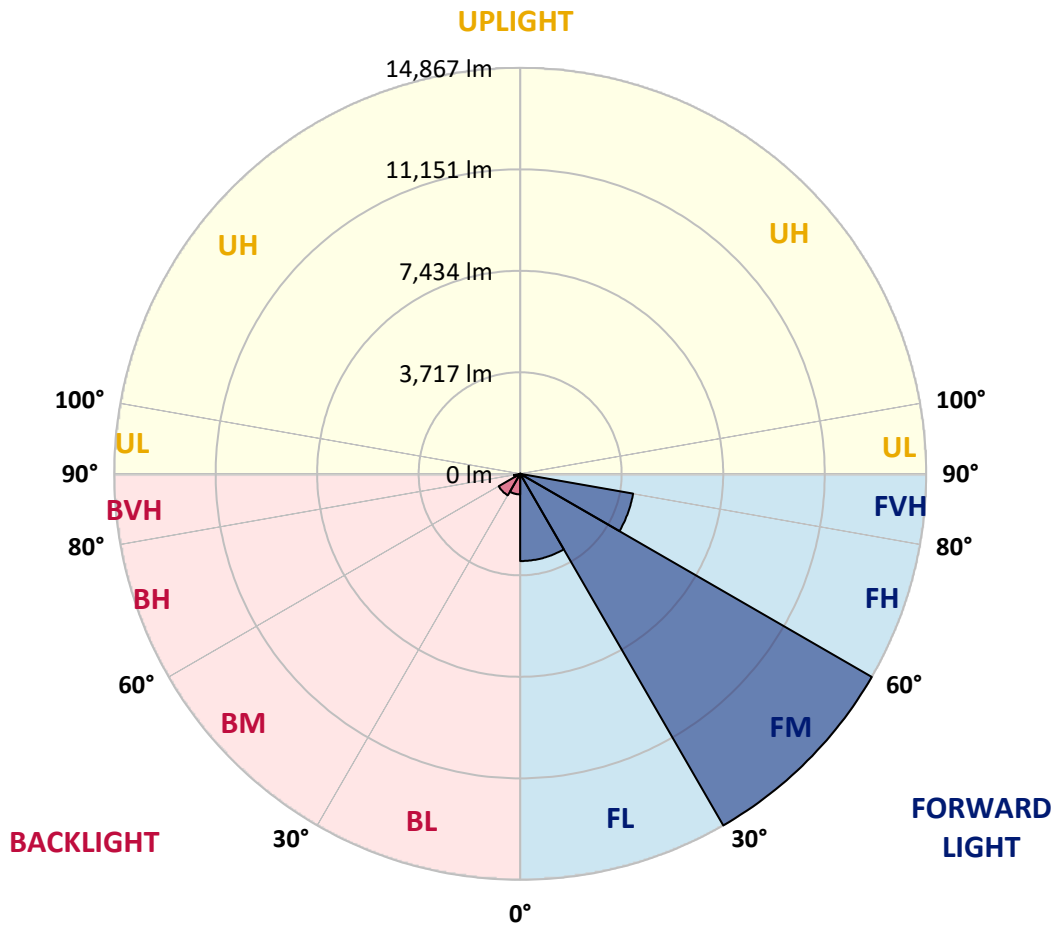
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3194.4	13.2			
FM (30°-60°)	14867.4	61.5			
FH (60°-80°)	4197.8	17.4			G2/5000
FVH (80°-90°)	41.3	0.2			G1/100
BL (0°-30°)	754.2	3.1	B2/1000		
BM (30°-60°)	907.3	3.8	B1/1000		
BH (60°-80°)	224.7	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°	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2
2.5°	7232.8	7141.8	7128.4	7110.5	6937.5	6807.7	6619.7	6413.9	6182.7	5947.0
5°	8356.0	8284.4	8271.0	8187.4	7990.5	7769.8	7435.7	7013.5	6582.5	6075.3
7.5°	8573.7	8560.3	8621.5	8618.5	8591.6	8417.1	8135.2	7632.5	6985.2	6233.4
10°	7602.7	7637.0	7819.0	7978.6	8409.7	8660.3	8599.1	8184.4	7399.9	6413.9
12.5°	6718.2	6677.9	6807.7	6988.2	7489.4	8235.2	8791.5	8645.3	7874.2	6618.3
15°	6163.3	6146.9	6220.0	6303.5	6685.4	7437.1	8567.8	9019.7	8330.6	6859.9
17.5°	5985.8	5972.4	5994.8	6015.6	6263.3	6845.0	8035.3	9249.4	8767.7	7135.8
20°	6130.5	6112.6	6109.6	6093.2	6196.1	6592.9	7553.5	9265.9	9159.9	7386.4
22.5°	6552.6	6531.7	6458.7	6393.0	6402.0	6627.2	7338.7	9101.8	9455.3	7620.6
25°	7317.8	7283.5	7131.4	6910.6	6770.4	6865.9	7371.5	8885.5	9737.2	7804.1
27.5°	8275.4	8230.7	8035.3	7707.1	7386.4	7270.1	7608.7	8736.3	9971.4	7944.3
30°	9213.6	9155.5	8963.1	8708.0	8239.6	7872.7	8036.8	8802.0	10250.3	8090.5
32.5°	10226.4	10171.3	9916.2	9600.0	9212.2	8718.4	8623.0	9122.7	10591.9	8294.8
35°	11507.7	11421.2	11058.8	10627.7	10216.0	9716.3	9416.5	9676.0	11046.8	8606.6
37.5°	12966.5	12850.2	12459.4	11864.2	11327.3	10767.9	10383.1	10436.8	11713.6	9024.2
40°	14341.8	14235.9	13874.9	13314.1	12639.9	11961.2	11551.0	11431.7	12633.9	9532.8
42.5°	15166.6	15071.2	14919.0	14681.9	14113.6	13421.5	12903.9	12645.8	13722.8	10141.4
45°	15212.9	15129.4	15333.7	15609.7	15497.8	15036.9	14405.9	13933.1	14816.1	10712.7
47.5°	14473.0	14416.4	15036.9	16000.5	16480.7	16674.7	16092.9	15112.9	15718.5	11122.9
50°	12456.4	12435.5	13712.3	15481.4	16855.1	18109.6	17872.4	16210.8	16418.1	11334.7
52.5°	10800.7	10724.6	11469.0	13819.7	16310.7	18864.3	19611.6	17287.7	16907.3	11375.0
55°	8191.9	8124.8	9058.5	11039.4	14555.1	18595.8	20884.0	18399.0	17257.9	11272.1
57.5°	4394.3	4352.5	5532.4	7347.6	11378.0	16984.9	21113.7	19574.3	17553.2	10999.1
60°	1710.9	1703.4	2144.9	3564.9	6915.1	13818.2	19954.7	20279.9	17738.2	10663.5
62.5°	1035.2	1057.5	1129.1	1600.5	3054.8	8584.2	17283.2	19477.4	17862.0	10356.2
65°	856.2	857.7	866.6	1099.3	1463.3	3591.8	13011.3	16837.2	17556.2	9808.8
67.5°	733.9	747.3	781.6	872.6	1032.2	1575.1	7490.8	13042.6	15696.2	8535.0
70°	578.7	596.6	639.9	717.5	796.5	986.0	2768.4	8678.2	11991.0	6433.3
72.5°	487.8	486.3	508.6	583.2	632.4	693.6	1065.0	4862.6	6968.8	3071.2
75°	377.4	392.3	420.6	487.8	517.6	502.7	577.3	1776.5	2496.9	930.8
77.5°	295.3	307.3	332.6	398.3	428.1	356.5	332.6	635.4	802.5	334.1
80°	132.8	143.2	226.7	293.8	349.0	246.1	180.5	325.2	356.5	152.1
82.5°	23.9	40.3	132.8	155.1	179.0	159.6	94.0	168.6	174.5	61.2
85°	1.5	3.0	46.2	56.7	71.6	52.2	28.3	67.1	58.2	20.9
87.5°	0.0	0.0	0.0	1.5	1.5	7.5	8.9	11.9	8.9	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°
5829.2	0°	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2	5829.2
5842.6	2.5°	5735.2	5523.4	5317.6	5149.0	5050.6	4883.5	4773.1	4755.2	4709.0	4749.3
5857.5	5°	5624.8	5246.0	4862.6	4519.6	4237.7	3873.7	3602.2	3487.4	3387.4	3421.7
5896.3	7.5°	5572.6	4974.5	4377.9	3791.7	3189.1	2607.3	2174.8	1994.3	1857.0	1876.4
5939.6	10°	5502.5	4692.6	3757.4	2862.4	2055.4	1481.2	1182.8	1072.5	1011.3	1012.8
6003.7	12.5°	5448.8	4355.5	3036.9	1940.6	1251.5	945.7	853.2	826.3	808.5	809.9
6100.7	15°	5422.0	3958.7	2325.4	1293.2	895.0	801.0	778.6	766.7	754.8	753.3
6208.1	17.5°	5377.2	3517.2	1701.9	944.2	783.1	750.3	730.9	717.5	702.5	699.6
6300.5	20°	5310.1	3016.0	1244.0	798.0	733.9	708.5	681.7	663.8	645.9	642.9
6358.7	22.5°	5186.3	2486.5	956.1	738.3	698.1	669.7	636.9	616.0	598.1	595.2
6330.4	25°	4956.6	1989.8	805.5	701.1	666.7	632.4	596.6	568.3	551.9	548.9
6269.2	27.5°	4665.7	1563.2	730.9	666.7	626.5	595.2	554.9	528.0	513.1	510.1
6188.7	30°	4322.7	1203.7	687.6	628.0	578.7	551.9	516.1	493.7	484.8	484.8
6132.0	32.5°	3952.8	962.1	669.7	589.2	537.0	507.1	478.8	469.9	466.9	465.4
6163.3	35°	3605.2	835.3	660.8	557.9	499.7	471.3	459.4	460.9	466.9	466.9
6260.3	37.5°	3296.4	795.0	656.3	535.5	466.9	441.5	449.0	462.4	456.4	456.4
6430.3	40°	3017.5	799.5	653.3	519.1	440.0	425.1	440.0	429.6	414.7	413.2
6637.6	42.5°	2804.2	836.8	647.4	505.7	423.6	413.2	407.2	390.8	389.3	392.3
6852.4	45°	2649.1	869.6	645.9	499.7	405.7	386.3	378.9	362.5	392.3	399.8
6940.4	47.5°	2465.6	869.6	645.9	478.8	375.9	368.4	356.5	338.6	368.4	375.9
6856.9	50°	2228.5	814.4	620.5	454.9	352.0	347.5	326.7	304.3	298.3	302.8
6661.5	52.5°	1928.6	714.5	556.4	422.1	328.2	319.2	293.8	277.4	273.0	273.0
6311.0	55°	1587.1	598.1	469.9	374.4	302.8	286.4	268.5	261.0	256.6	253.6
5820.2	57.5°	1290.2	490.7	377.4	332.6	278.9	258.0	252.1	243.1	235.7	231.2
5410.1	60°	1059.0	386.3	311.7	295.3	255.1	235.7	234.2	222.2	202.9	199.9
5071.5	62.5°	817.4	283.4	262.5	256.6	231.2	214.8	211.8	187.9	158.1	152.1
4591.2	65°	577.3	220.8	211.8	225.2	205.8	190.9	183.5	147.7	116.3	111.9
3842.4	67.5°	405.7	185.0	167.1	196.9	179.0	159.6	155.1	125.3	97.0	94.0
2905.6	70°	289.4	150.7	137.2	168.6	143.2	140.2	131.3	104.4	79.1	76.1
1437.9	72.5°	204.3	114.9	105.9	146.2	98.4	120.8	107.4	80.5	59.7	56.7
489.2	75°	150.7	82.0	74.6	85.0	71.6	91.0	76.1	53.7	37.3	35.8
220.8	77.5°	110.4	52.2	44.7	41.8	41.8	56.7	41.8	22.4	16.4	14.9
111.9	80°	77.6	23.9	20.9	17.9	16.4	13.4	6.0	3.0	1.5	1.5
38.8	82.5°	46.2	10.4	10.4	7.5	4.5	0.0	0.0	0.0	0.0	0.0
14.9	85°	10.4	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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