

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: P948927

Luminaire Tested: **GALN-SB3D-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948927
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-SB3D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 23391 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

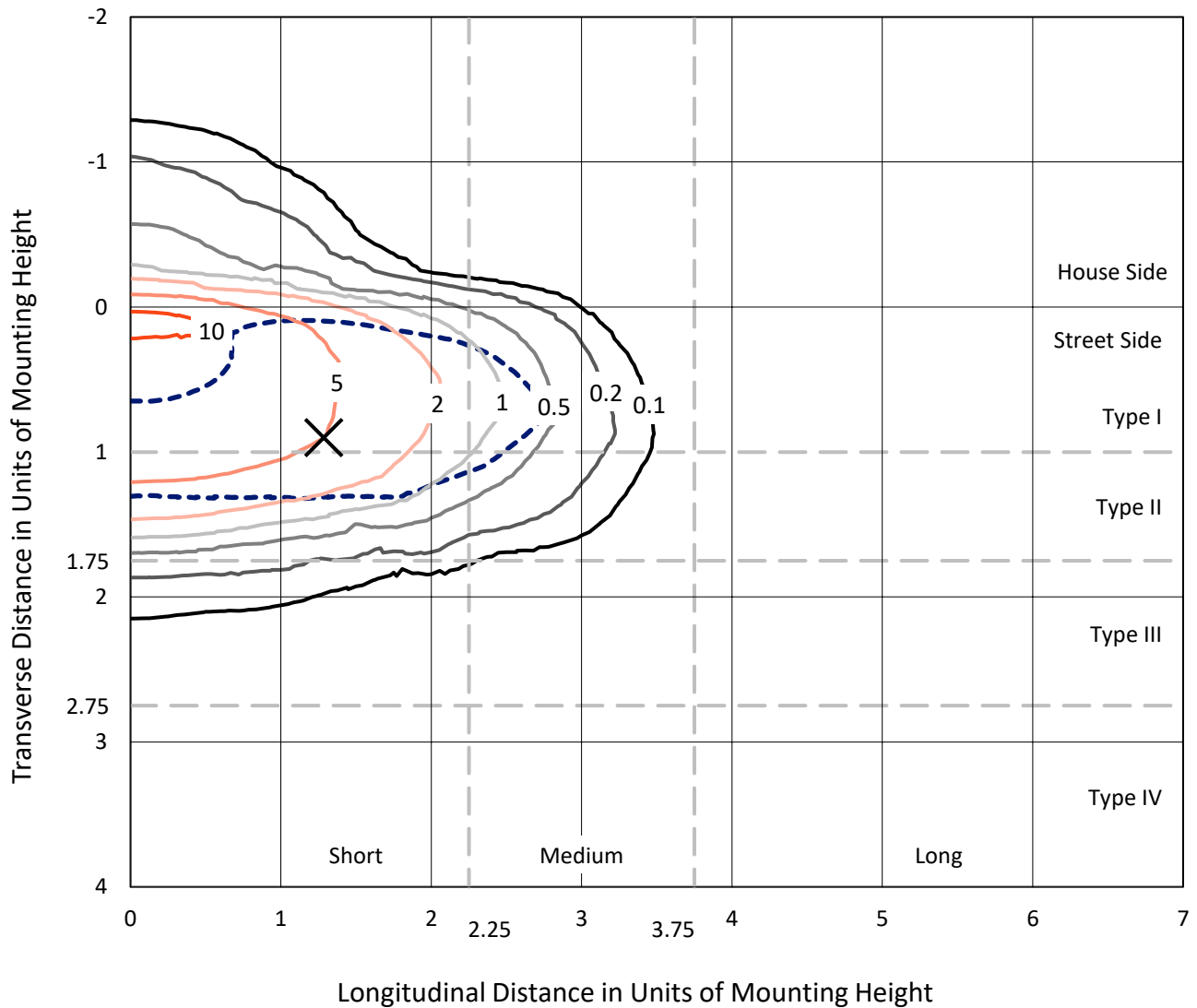
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

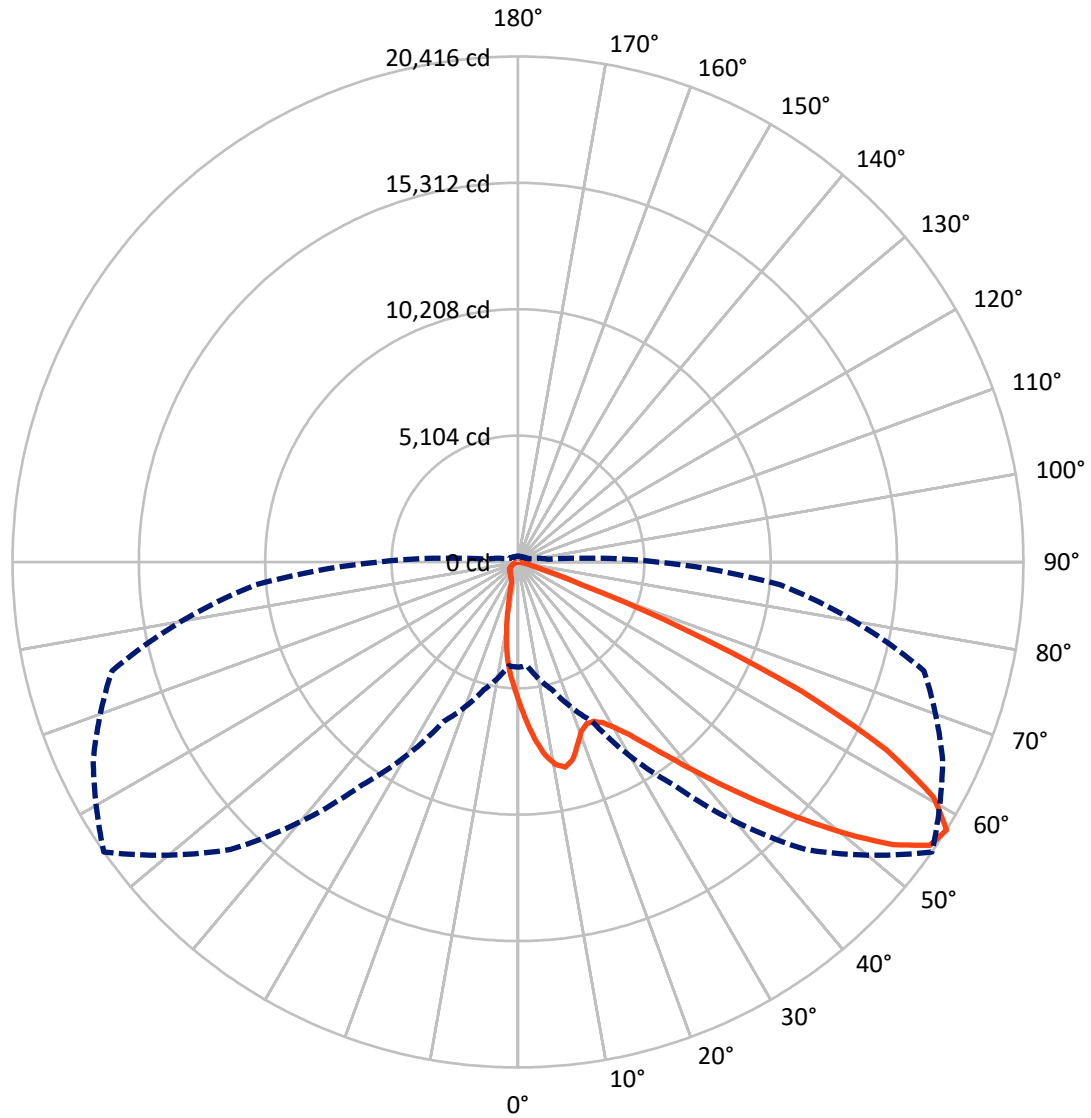
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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
House Side	Lumens	1826.7	0.0	1826.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	21564.3	0.0	21564.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	23391.0	0.0	23391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.5	2.2
10°-20°	1266.8	5.4
20°-30°	2026.9	8.7
30°-40°	3430.7	14.7
40°-50°	5632.5	24.1
50°-60°	6190.5	26.5
60°-70°	3550.9	15.2
70°-80°	725.5	3.1
80°-90°	42.8	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°	23391.0	100.0
0°-180°	23391.0	100.0

Coefficient of Utilization



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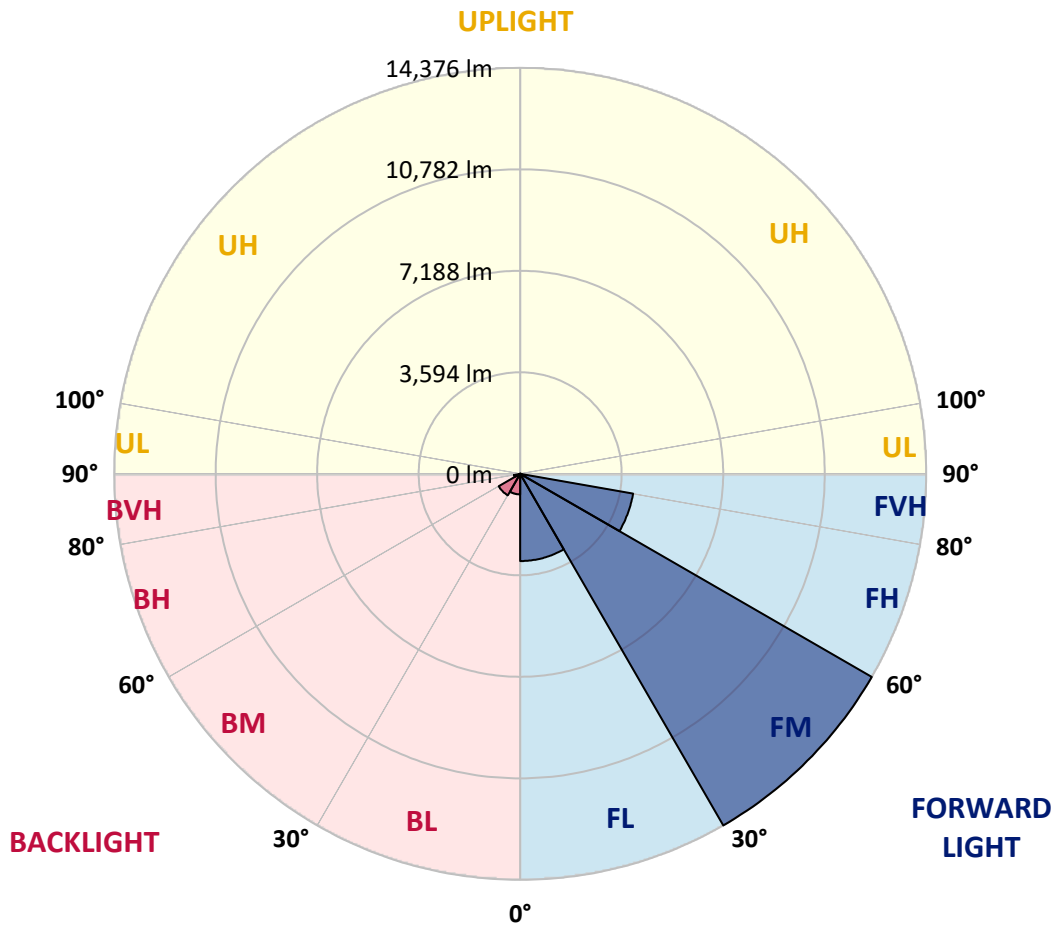
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3088.9	13.2			
FM (30°-60°)	14376.3	61.5			
FH (60°-80°)	4059.1	17.4			G2/5000
FVH (80°-90°)	39.9	0.2			G1/100
BL (0°-30°)	729.3	3.1	B2/1000		
BM (30°-60°)	877.3	3.8	B1/1000		
BH (60°-80°)	217.3	0.9	B1/500		G1/500
BVH (80°-90°)	2.9	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°	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7
2.5°	6993.9	6905.9	6892.9	6875.6	6708.3	6582.8	6401.1	6202.1	5978.5	5750.6
5°	8080.0	8010.7	7997.8	7917.0	7726.6	7513.1	7190.1	6781.9	6365.0	5874.6
7.5°	8290.6	8277.6	8336.7	8333.8	8307.9	8139.1	7866.5	7380.4	6754.5	6027.5
10°	7351.6	7384.8	7560.7	7715.1	8131.9	8374.2	8315.1	7914.1	7155.4	6202.1
12.5°	6496.3	6457.3	6582.8	6757.4	7242.0	7963.1	8501.1	8359.8	7614.1	6399.7
15°	5959.7	5943.9	6014.5	6095.3	6464.6	7191.5	8284.8	8721.8	8055.5	6633.3
17.5°	5788.1	5775.1	5796.8	5816.9	6056.4	6618.9	7769.9	8943.9	8478.1	6900.1
20°	5928.0	5910.7	5907.8	5891.9	5991.5	6375.1	7304.0	8959.8	8857.4	7142.5
22.5°	6336.2	6316.0	6245.3	6181.9	6190.5	6408.3	7096.3	8801.1	9143.0	7368.9
25°	7076.1	7042.9	6895.8	6682.3	6546.8	6639.1	7128.0	8592.0	9415.6	7546.3
27.5°	8002.1	7958.8	7769.9	7452.6	7142.5	7030.0	7357.4	8447.8	9642.0	7681.9
30°	8909.3	8853.1	8667.0	8420.4	7967.5	7612.7	7771.3	8511.2	9911.7	7823.2
32.5°	9888.7	9835.3	9588.7	9282.9	8907.9	8430.5	8338.2	8821.3	10242.0	8020.8
35°	11127.6	11044.0	10693.5	10276.7	9878.6	9395.4	9105.5	9356.4	10682.0	8322.3
37.5°	12538.2	12425.7	12047.8	11472.4	10953.1	10412.2	10040.1	10092.0	11326.7	8726.1
40°	13868.1	13765.7	13416.6	12874.3	12222.4	11566.1	11169.5	11054.1	12216.6	9218.0
42.5°	14665.7	14573.4	14426.3	14196.9	13647.4	12978.2	12477.7	12228.1	13269.5	9806.5
45°	14710.4	14629.6	14827.2	15094.1	14985.9	14540.2	13930.1	13472.9	14326.7	10358.9
47.5°	13995.0	13940.2	14540.2	15472.0	15936.4	16123.9	15561.4	14613.8	15199.4	10755.5
50°	12045.0	12024.8	13259.4	14970.0	16298.4	17511.4	17282.1	15675.3	15875.8	10960.3
52.5°	10444.0	10370.4	11090.1	13363.3	15772.0	18241.2	18963.9	16716.7	16348.9	10999.3
55°	7921.3	7856.4	8759.3	10674.7	14074.3	17981.6	20194.2	17791.2	16687.8	10899.7
57.5°	4249.1	4208.7	5349.6	7105.0	11002.1	16423.9	20416.3	18927.8	16973.4	10635.8
60°	1654.4	1647.1	2074.1	3447.2	6686.7	13361.8	19295.6	19610.0	17152.3	10311.3
62.5°	1001.0	1022.6	1091.8	1547.6	2953.9	8300.7	16712.4	18834.0	17272.0	10014.1
65°	827.9	829.3	838.0	1063.0	1414.9	3473.1	12581.5	16281.1	16976.3	9484.8
67.5°	709.6	722.6	755.8	843.8	998.1	1523.1	7243.4	12611.8	15177.7	8253.1
70°	559.6	576.9	618.8	693.8	770.2	953.4	2677.0	8391.5	11595.0	6220.8
72.5°	471.6	470.2	491.8	564.0	611.6	670.7	1029.8	4702.0	6738.6	2969.8
75°	364.9	379.3	406.7	471.6	500.5	486.1	558.2	1717.8	2414.5	900.0
77.5°	285.6	297.1	321.6	385.1	414.0	344.7	321.6	614.4	776.0	323.1
80°	128.4	138.5	219.2	284.1	337.5	238.0	174.5	314.4	344.7	147.1
82.5°	23.1	38.9	128.4	150.0	173.1	154.3	90.9	163.0	168.8	59.1
85°	1.4	2.9	44.7	54.8	69.2	50.5	27.4	64.9	56.3	20.2
87.5°	0.0	0.0	0.0	1.4	1.4	7.2	8.7	11.5	8.7	7.2
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°
5636.7	0°	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7	5636.7
5649.6	2.5°	5545.8	5341.0	5141.9	4978.9	4883.8	4722.2	4615.5	4598.2	4553.5	4592.4
5664.1	5°	5439.1	5072.7	4702.0	4370.3	4097.7	3745.8	3483.2	3372.2	3275.5	3308.7
5701.6	7.5°	5388.6	4810.2	4233.3	3666.4	3083.7	2521.2	2102.9	1928.4	1795.7	1814.5
5743.4	10°	5320.8	4537.6	3633.2	2767.8	1987.5	1432.2	1143.8	1037.0	977.9	979.3
5805.4	12.5°	5268.9	4211.6	2936.6	1876.5	1210.1	914.4	825.0	799.1	781.7	783.2
5899.2	15°	5242.9	3828.0	2248.6	1250.5	865.4	774.5	752.9	741.4	729.8	728.4
6003.0	17.5°	5199.6	3401.0	1645.7	913.0	757.2	725.5	706.7	693.8	679.3	676.5
6092.4	20°	5134.7	2916.4	1202.9	771.7	709.6	685.1	659.1	641.8	624.5	621.6
6148.7	22.5°	5015.0	2404.4	924.5	714.0	675.0	647.6	615.9	595.7	578.4	575.5
6121.3	25°	4792.9	1924.1	778.9	677.9	644.7	611.6	576.9	549.5	533.7	530.8
6062.1	27.5°	4511.6	1511.6	706.7	644.7	605.8	575.5	536.5	510.6	496.2	493.3
5984.3	30°	4179.9	1164.0	664.9	607.2	559.6	533.7	499.0	477.4	468.8	468.8
5929.4	32.5°	3822.2	930.3	647.6	569.7	519.2	490.4	463.0	454.3	451.5	450.0
5959.7	35°	3486.1	807.7	639.0	539.4	483.2	455.8	444.2	445.7	451.5	451.5
6053.5	37.5°	3187.6	768.8	634.6	517.8	451.5	426.9	434.1	447.1	441.4	441.4
6217.9	40°	2917.8	773.1	631.7	501.9	425.5	411.1	425.5	415.4	401.0	399.5
6418.4	42.5°	2711.6	809.2	626.0	489.0	409.6	399.5	393.8	377.9	376.5	379.3
6626.1	45°	2561.6	840.9	624.5	483.2	392.3	373.6	366.4	350.5	379.3	386.5
6711.2	47.5°	2384.2	840.9	624.5	463.0	363.5	356.3	344.7	327.4	356.3	363.5
6630.4	50°	2154.9	787.5	600.0	439.9	340.4	336.1	315.9	294.2	288.5	292.8
6441.5	52.5°	1864.9	690.9	538.0	408.2	317.3	308.7	284.1	268.3	263.9	263.9
6102.5	55°	1534.6	578.4	454.3	362.0	292.8	276.9	259.6	252.4	248.1	245.2
5628.0	57.5°	1247.6	474.5	364.9	321.6	269.7	249.5	243.8	235.1	227.9	223.6
5231.4	60°	1024.1	373.6	301.4	285.6	246.6	227.9	226.4	214.9	196.2	193.3
4903.9	62.5°	790.4	274.0	253.9	248.1	223.6	207.7	204.8	181.7	152.9	147.1
4439.5	65°	558.2	213.5	204.8	217.8	199.0	184.6	177.4	142.8	112.5	108.2
3715.5	67.5°	392.3	178.8	161.5	190.4	173.1	154.3	150.0	121.2	93.8	90.9
2809.7	70°	279.8	145.7	132.7	163.0	138.5	135.6	126.9	101.0	76.4	73.6
1390.4	72.5°	197.6	111.1	102.4	141.3	95.2	116.8	103.8	77.9	57.7	54.8
473.1	75°	145.7	79.3	72.1	82.2	69.2	88.0	73.6	51.9	36.1	34.6
213.5	77.5°	106.7	50.5	43.3	40.4	40.4	54.8	40.4	21.6	15.9	14.4
108.2	80°	75.0	23.1	20.2	17.3	15.9	13.0	5.8	2.9	1.4	1.4
37.5	82.5°	44.7	10.1	10.1	7.2	4.3	0.0	0.0	0.0	0.0	0.0
14.4	85°	10.1	4.3	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	1.4	1.4	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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