

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: P954975

Luminaire Tested: **GALN-SB8A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954975
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-SB8A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 26893 lumens
Efficiency: N/A
Efficacy: 118.4 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

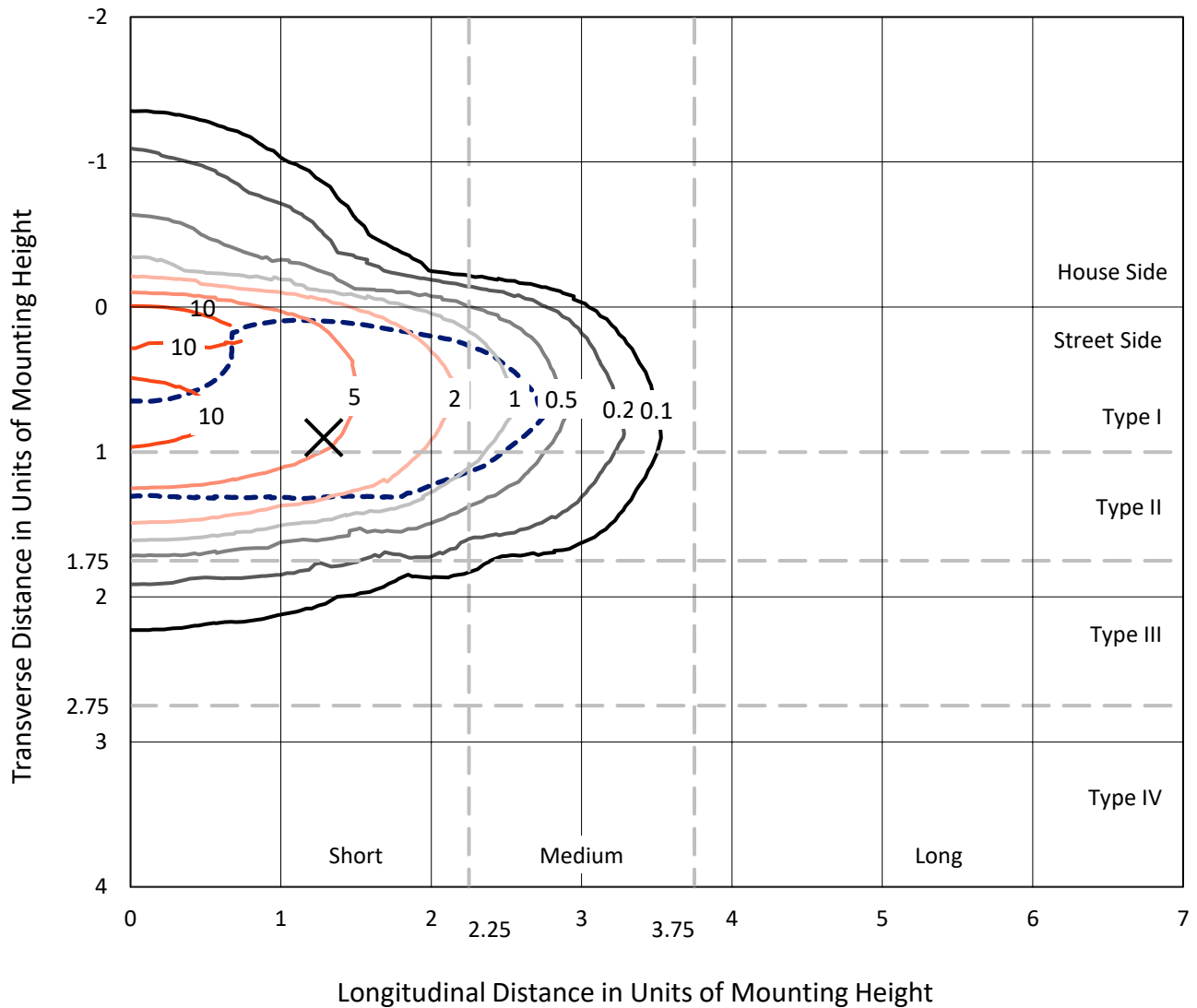
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

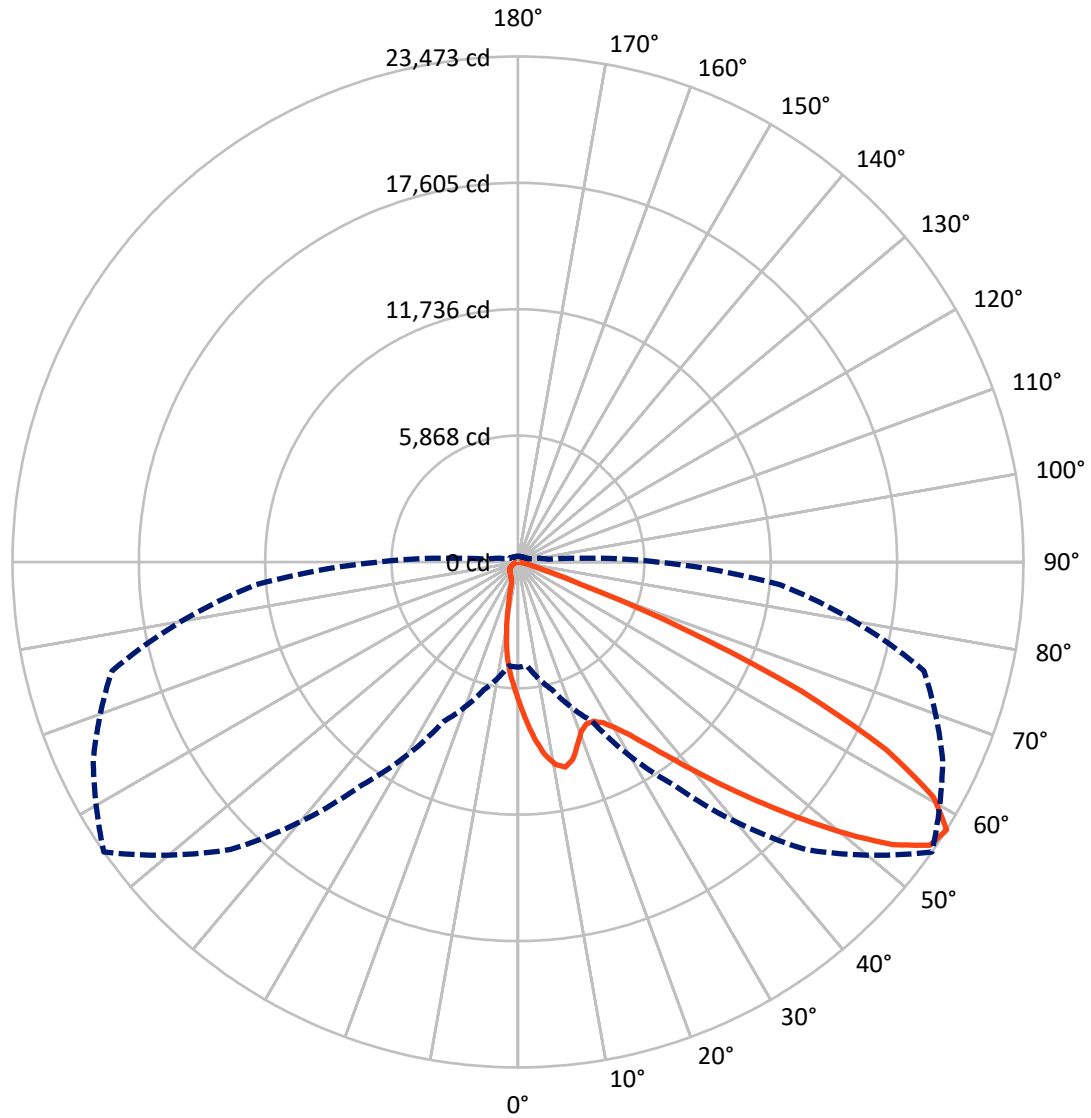
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	2100.2	0.0	2100.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	24792.8	0.0	24792.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	26893.0	0.0	26893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.0	2.2
10°-20°	1456.5	5.4
20°-30°	2330.4	8.7
30°-40°	3944.3	14.7
40°-50°	6475.7	24.1
50°-60°	7117.3	26.5
60°-70°	4082.5	15.2
70°-80°	834.2	3.1
80°-90°	49.2	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°	26893.0	100.0
0°-180°	26893.0	100.0

Coefficient of Utilization



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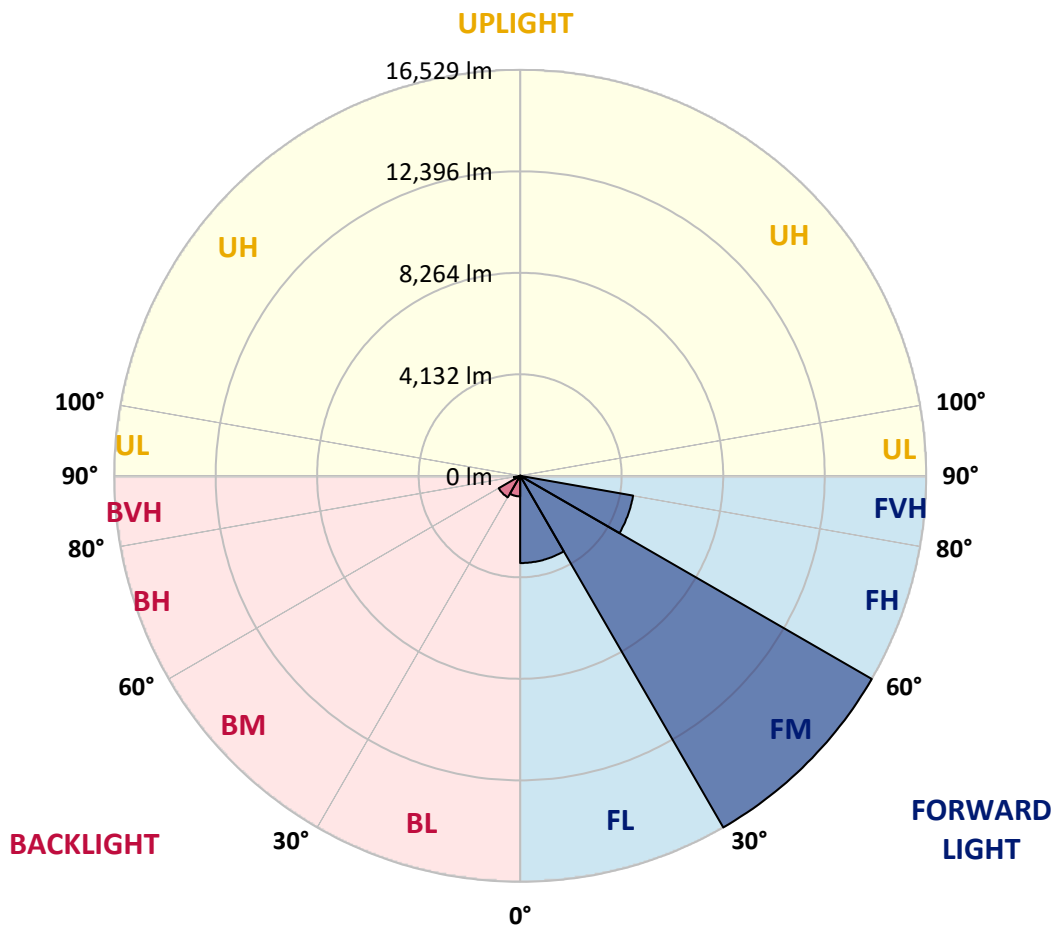
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3551.4	13.2			
FM (30°-60°)	16528.6	61.5			
FH (60°-80°)	4666.9	17.4			G2/5000
FVH (80°-90°)	45.9	0.2			G1/100
BL (0°-30°)	838.5	3.1	B2/1000		
BM (30°-60°)	1008.7	3.8	B2/2500		
BH (60°-80°)	249.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.3	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°	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6
2.5°	8041.0	7939.8	7924.9	7905.0	7712.7	7568.4	7359.4	7130.6	6873.6	6611.6
5°	9289.7	9210.1	9195.2	9102.3	8883.4	8638.0	8266.5	7797.2	7318.0	6754.2
7.5°	9531.8	9516.9	9584.8	9581.5	9551.7	9357.7	9044.2	8485.4	7765.7	6929.9
10°	8452.2	8490.4	8692.7	8870.1	9349.4	9628.0	9560.0	9099.0	8226.7	7130.6
12.5°	7468.9	7424.1	7568.4	7769.0	8326.2	9155.4	9773.9	9611.4	8754.0	7357.8
15°	6852.0	6833.8	6915.0	7007.9	7432.4	8268.2	9525.1	10027.6	9261.5	7626.4
17.5°	6654.7	6639.7	6664.6	6687.8	6963.1	7609.8	8933.1	10283.0	9747.4	7933.2
20°	6815.5	6795.6	6792.3	6774.1	6888.5	7329.6	8397.5	10301.2	10183.5	8211.8
22.5°	7284.8	7261.6	7180.3	7107.4	7117.3	7367.7	8158.7	10118.8	10511.8	8472.1
25°	8135.5	8097.4	7928.2	7682.8	7526.9	7633.1	8195.2	9878.4	10825.2	8676.1
27.5°	9200.1	9150.4	8933.1	8568.3	8211.8	8082.4	8458.9	9712.5	11085.6	8832.0
30°	10243.2	10178.5	9964.6	9681.0	9160.3	8752.4	8934.8	9785.5	11395.7	8994.5
32.5°	11369.2	11307.8	11024.2	10672.7	10241.5	9692.6	9586.5	10142.0	11775.4	9221.7
35°	12793.6	12697.4	12294.5	11815.2	11357.5	10802.0	10468.7	10757.2	12281.2	9568.3
37.5°	14415.4	14286.1	13851.6	13189.9	12593.0	11971.1	11543.3	11603.0	13022.5	10032.6
40°	15944.3	15826.6	15425.3	14801.8	14052.2	13297.7	12841.7	12709.0	14045.6	10598.1
42.5°	16861.4	16755.2	16586.1	16322.4	15690.6	14921.2	14345.8	14058.9	15256.2	11274.6
45°	16912.8	16819.9	17047.1	17353.9	17229.5	16717.1	16015.6	15490.0	16471.7	11909.8
47.5°	16090.3	16027.3	16717.1	17788.3	18322.3	18537.9	17891.2	16801.7	17474.9	12365.8
50°	13848.3	13825.1	15244.5	17211.3	18738.5	20133.2	19869.5	18022.2	18252.7	12601.3
52.5°	12007.6	11923.0	12750.5	15363.9	18133.3	20972.2	21803.0	19219.4	18796.6	12646.0
55°	9107.3	9032.6	10070.7	12272.9	16181.5	20673.8	23217.5	20454.9	19186.3	12531.6
57.5°	4885.3	4838.9	6150.6	8168.7	12649.3	18882.8	23472.9	21761.6	19514.6	12228.1
60°	1902.0	1893.8	2384.6	3963.3	7687.8	15362.3	22184.4	22545.9	19720.2	11855.0
62.5°	1150.8	1175.7	1255.3	1779.3	3396.2	9543.4	19214.5	21653.8	19857.9	11513.4
65°	951.9	953.5	963.5	1222.2	1626.8	3993.1	14465.2	18718.6	19517.9	10904.8
67.5°	815.9	830.8	868.9	970.1	1147.5	1751.1	8327.9	14500.0	17450.1	9488.7
70°	643.4	663.3	711.4	797.6	885.5	1096.1	3077.8	9647.9	13330.9	7152.2
72.5°	542.3	540.6	565.5	648.4	703.1	771.1	1184.0	5406.0	7747.5	3414.4
75°	419.5	436.1	467.6	542.3	575.4	558.8	641.8	1975.0	2776.0	1034.8
77.5°	328.3	341.6	369.8	442.8	475.9	396.3	369.8	706.4	892.2	371.5
80°	147.6	159.2	252.1	326.7	388.0	273.6	200.7	361.5	396.3	169.1
82.5°	26.5	44.8	147.6	172.5	199.0	177.4	104.5	187.4	194.0	68.0
85°	1.7	3.3	51.4	63.0	79.6	58.0	31.5	74.6	64.7	23.2
87.5°	0.0	0.0	0.0	1.7	1.7	8.3	9.9	13.3	9.9	8.3
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°
6480.6	0°	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6	6480.6
6495.5	2.5°	6376.1	6140.6	5911.8	5724.4	5614.9	5429.2	5306.5	5286.6	5235.2	5280.0
6512.1	5°	6253.4	5832.2	5406.0	5024.6	4711.2	4306.5	4004.7	3877.1	3765.9	3804.1
6555.2	7.5°	6195.3	5530.4	4867.0	4215.3	3545.4	2898.7	2417.8	2217.1	2064.6	2086.1
6603.3	10°	6117.4	5216.9	4177.2	3182.2	2285.1	1646.7	1315.0	1192.3	1124.3	1126.0
6674.6	12.5°	6057.7	4842.2	3376.3	2157.4	1391.3	1051.3	948.5	918.7	898.8	900.4
6782.4	15°	6027.8	4401.1	2585.3	1437.7	995.0	890.5	865.6	852.4	839.1	837.4
6901.8	17.5°	5978.1	3910.2	1892.1	1049.7	870.6	834.1	812.6	797.6	781.0	777.7
7004.6	20°	5903.5	3353.0	1383.0	887.2	815.9	787.7	757.8	737.9	718.0	714.7
7069.2	22.5°	5765.8	2764.3	1063.0	820.8	776.1	744.6	708.1	684.9	665.0	661.7
7037.7	25°	5510.5	2212.1	895.5	779.4	741.3	703.1	663.3	631.8	613.6	610.2
6969.7	27.5°	5187.1	1737.9	812.6	741.3	696.5	661.7	616.9	587.0	570.4	567.1
6880.2	30°	4805.7	1338.2	764.5	698.1	643.4	613.6	573.8	548.9	538.9	538.9
6817.2	32.5°	4394.4	1069.6	744.6	655.0	597.0	563.8	532.3	522.4	519.0	517.4
6852.0	35°	4008.1	928.6	734.6	620.2	555.5	524.0	510.7	512.4	519.0	519.0
6959.8	37.5°	3664.8	883.9	729.6	595.3	519.0	490.9	499.1	514.1	507.4	507.4
7148.8	40°	3354.7	888.8	726.3	577.1	489.2	472.6	489.2	477.6	461.0	459.3
7379.3	42.5°	3117.6	930.3	719.7	562.2	471.0	459.3	452.7	434.5	432.8	436.1
7618.1	45°	2945.1	966.8	718.0	555.5	451.1	429.5	421.2	403.0	436.1	444.4
7716.0	47.5°	2741.1	966.8	718.0	532.3	417.9	409.6	396.3	376.4	409.6	417.9
7623.1	50°	2477.5	905.4	689.8	505.8	391.4	386.4	363.2	338.3	331.7	336.6
7405.9	52.5°	2144.2	794.3	618.5	469.3	364.8	354.9	326.7	308.4	303.5	303.5
7016.2	55°	1764.4	665.0	522.4	416.2	336.6	318.4	298.5	290.2	285.2	281.9
6470.6	57.5°	1434.4	545.6	419.5	369.8	310.1	286.9	280.2	270.3	262.0	257.0
6014.6	60°	1177.4	429.5	346.6	328.3	283.6	262.0	260.3	247.1	225.5	222.2
5638.1	62.5°	908.7	315.1	291.9	285.2	257.0	238.8	235.5	208.9	175.8	169.1
5104.2	65°	641.8	245.4	235.5	250.4	228.8	212.3	204.0	164.2	129.3	124.4
4271.7	67.5°	451.1	205.6	185.7	218.9	199.0	177.4	172.5	139.3	107.8	104.5
3230.3	70°	321.7	167.5	152.6	187.4	159.2	155.9	145.9	116.1	87.9	84.6
1598.6	72.5°	227.2	127.7	117.7	162.5	109.4	134.3	119.4	89.5	66.3	63.0
543.9	75°	167.5	91.2	82.9	94.5	79.6	101.2	84.6	59.7	41.5	39.8
245.4	77.5°	122.7	58.0	49.7	46.4	46.4	63.0	46.4	24.9	18.2	16.6
124.4	80°	86.2	26.5	23.2	19.9	18.2	14.9	6.6	3.3	1.7	1.7
43.1	82.5°	51.4	11.6	11.6	8.3	5.0	0.0	0.0	0.0	0.0	0.0
16.6	85°	11.6	5.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.6	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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