

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: P957222

Luminaire Tested: **GALN-SB9C-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957222
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-SB9C-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 35402 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

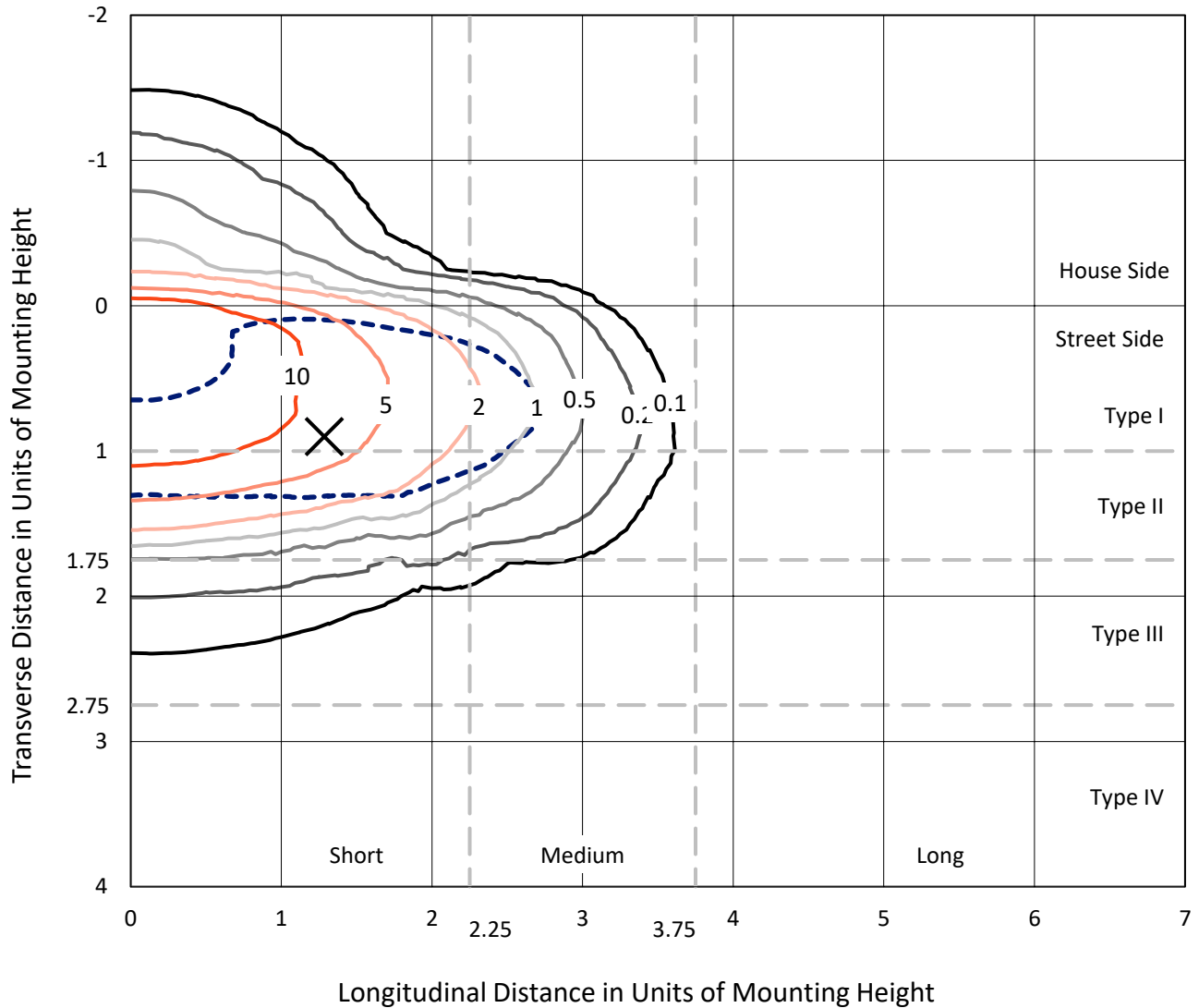
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

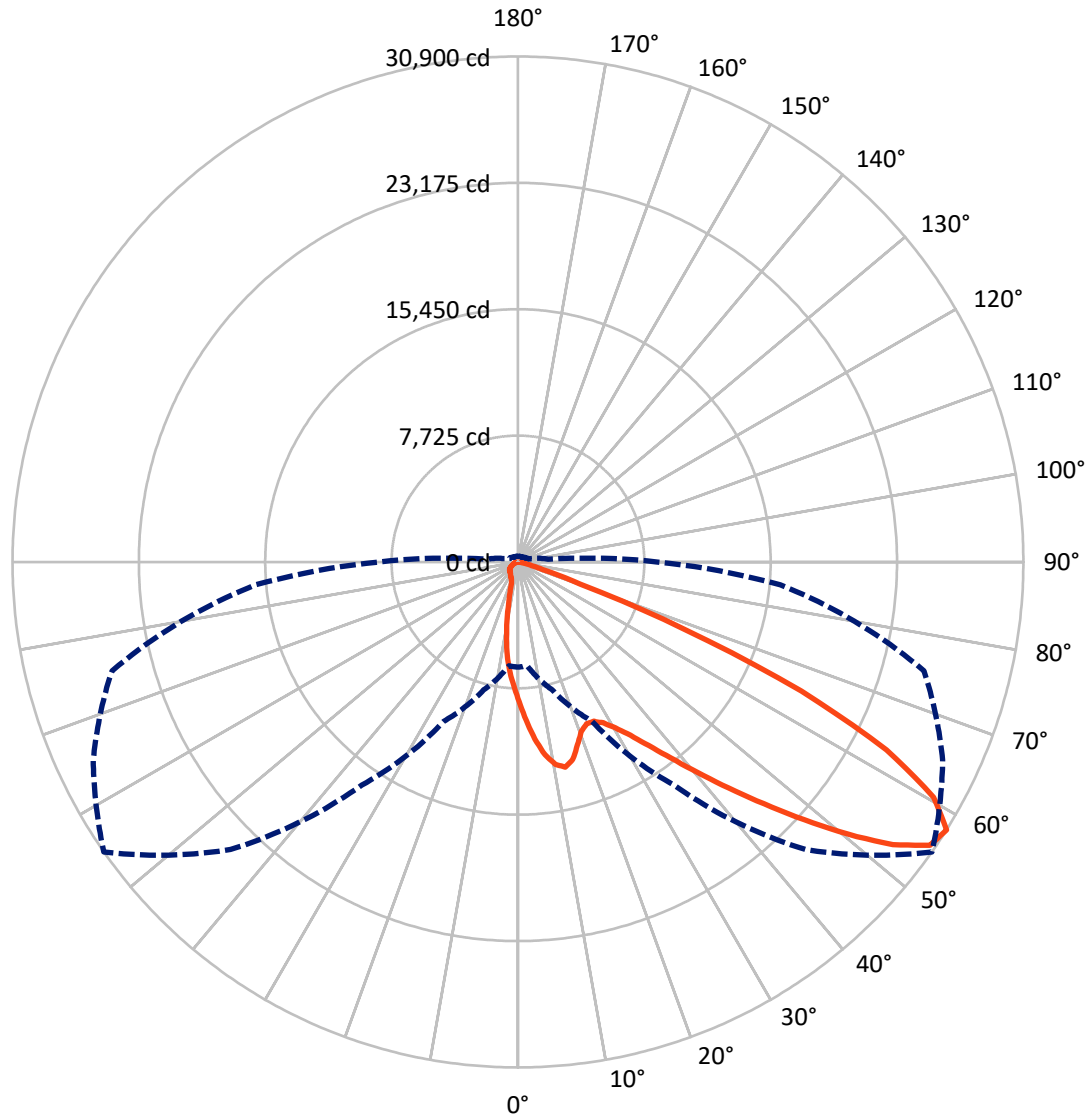
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 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	2764.8	0.0	2764.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	32637.3	0.0	32637.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	35402.0	0.0	35402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.8	2.2
10°-20°	1917.3	5.4
20°-30°	3067.7	8.7
30°-40°	5192.3	14.7
40°-50°	8524.6	24.1
50°-60°	9369.2	26.5
60°-70°	5374.2	15.2
70°-80°	1098.1	3.1
80°-90°	64.8	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°	35402.0	100.0
0°-180°	35402.0	100.0

Coefficient of Utilization



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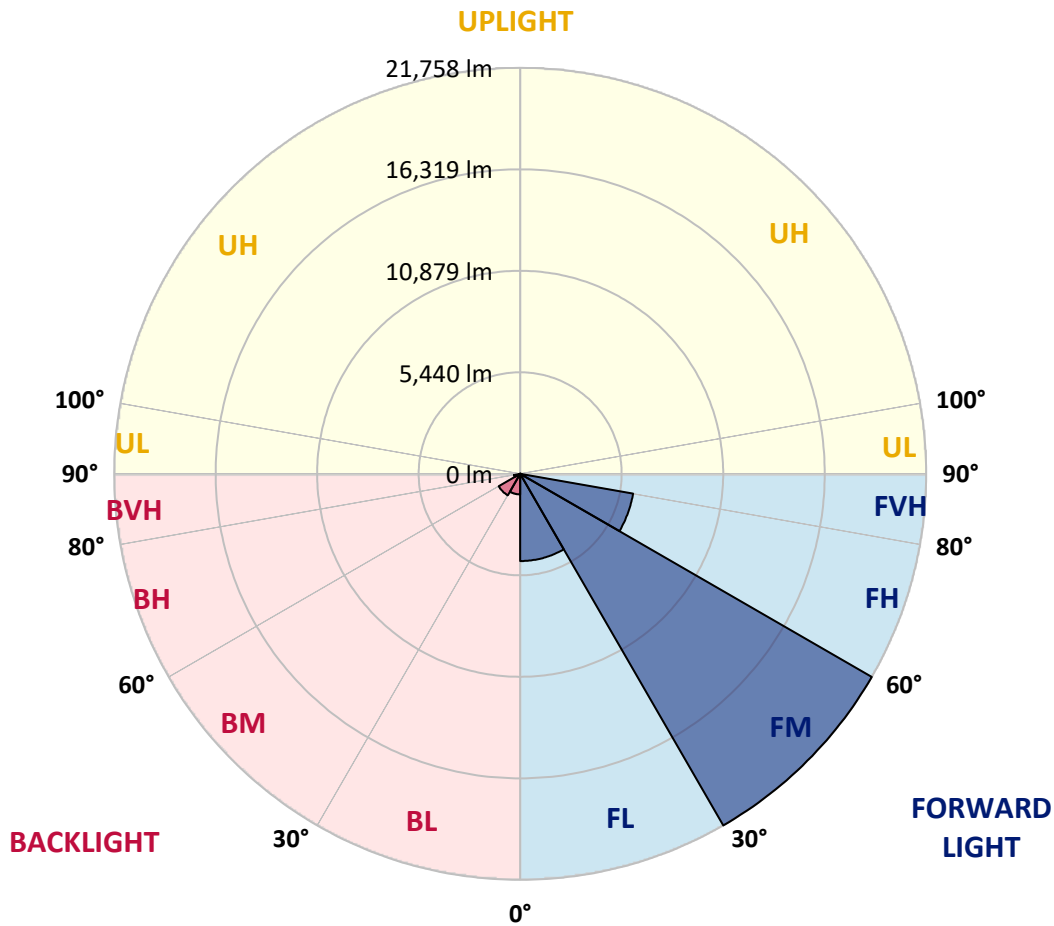
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4675.1	13.2			
FM (30°-60°)	21758.3	61.5			
FH (60°-80°)	6143.5	17.4			G3/7500
FVH (80°-90°)	60.4	0.2			G1/100
BL (0°-30°)	1103.8	3.1	B3/2500		
BM (30°-60°)	1327.8	3.8	B2/2500		
BH (60°-80°)	328.8	0.9	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0
2.5°	10585.2	10452.0	10432.4	10406.2	10152.9	9963.0	9688.0	9386.7	9048.4	8703.5
5°	12228.9	12124.2	12104.5	11982.3	11694.1	11371.0	10882.1	10264.3	9633.4	8891.2
7.5°	12547.7	12528.0	12617.5	12613.1	12573.9	12318.4	11905.9	11170.2	10222.8	9122.6
10°	11126.5	11176.8	11443.1	11676.7	12307.5	12674.3	12584.8	11977.9	10829.7	9386.7
12.5°	9832.1	9773.1	9963.0	10227.2	10960.6	12052.1	12866.4	12652.4	11523.8	9685.8
15°	9020.0	8996.0	9102.9	9225.2	9784.0	10884.2	12538.9	13200.4	12191.8	10039.4
17.5°	8760.2	8740.6	8773.3	8803.9	9166.3	10017.6	11759.6	13536.5	12831.4	10443.3
20°	8972.0	8945.8	8941.4	8917.4	9068.0	9648.7	11054.5	13560.6	13405.6	10810.0
22.5°	9589.7	9559.2	9452.2	9356.2	9369.3	9698.9	10740.2	13320.4	13837.8	11152.7
25°	10709.6	10659.4	10436.7	10113.7	9908.5	10048.2	10788.2	13003.9	14250.4	11421.2
27.5°	12111.1	12045.6	11759.6	11279.4	10810.0	10639.7	11135.3	12785.6	14593.1	11626.4
30°	13484.1	13399.0	13117.4	12744.1	12058.7	11521.7	11761.8	12881.6	15001.3	11840.4
32.5°	14966.4	14885.6	14512.3	14049.5	13482.0	12759.4	12619.7	13351.0	15501.2	12139.4
35°	16841.5	16714.9	16184.5	15553.6	14951.1	14219.8	13781.0	14160.9	16167.0	12595.7
37.5°	18976.5	18806.2	18234.3	17363.3	16577.4	15758.8	15195.6	15274.2	17142.8	13206.9
40°	20989.2	20834.2	20305.9	19485.1	18498.4	17505.2	16904.8	16730.2	18489.7	13951.3
42.5°	22196.3	22056.6	21834.0	21486.9	20655.2	19642.3	18884.8	18507.1	20083.2	14841.9
45°	22264.0	22141.8	22440.8	22844.7	22681.0	22006.4	21083.0	20391.0	21683.3	15678.0
47.5°	21181.3	21098.3	22006.4	23416.6	24119.5	24403.3	23552.0	22117.8	23004.0	16278.3
50°	18229.9	18199.3	20068.0	22656.9	24667.5	26503.3	26156.2	23724.4	24027.8	16588.3
52.5°	15806.8	15695.5	16784.8	20225.1	23870.7	27607.9	28701.6	25300.5	24743.9	16647.3
55°	11988.8	11890.6	13257.1	16156.1	21301.3	27215.0	30563.6	26926.8	25256.9	16496.6
57.5°	6431.0	6369.9	8096.6	10753.3	16651.6	24857.4	30899.8	28647.0	25689.1	16097.2
60°	2503.9	2492.9	3139.1	5217.3	10120.2	20222.9	29203.6	29679.5	25959.8	15606.0
62.5°	1515.0	1547.7	1652.5	2342.3	4470.7	12562.9	25294.0	28505.1	26141.0	15156.3
65°	1253.0	1255.2	1268.3	1608.8	2141.5	5256.6	19042.0	24641.3	25693.4	14355.1
67.5°	1074.0	1093.7	1143.9	1277.0	1510.6	2305.2	10962.8	19087.8	22971.3	12490.9
70°	847.0	873.2	936.5	1050.0	1165.7	1442.9	4051.6	12700.5	17548.8	9415.1
72.5°	713.8	711.6	744.4	853.5	925.6	1015.1	1558.6	7116.5	10198.8	4494.7
75°	552.3	574.1	615.6	713.8	757.5	735.7	844.8	2599.9	3654.3	1362.2
77.5°	432.2	449.7	486.8	582.9	626.5	521.7	486.8	929.9	1174.4	489.0
80°	194.3	209.6	331.8	430.0	510.8	360.2	264.1	475.9	521.7	222.7
82.5°	34.9	58.9	194.3	227.0	262.0	233.6	137.5	246.7	255.4	89.5
85°	2.2	4.4	67.7	83.0	104.8	76.4	41.5	98.2	85.1	30.6
87.5°	0.0	0.0	0.0	2.2	2.2	10.9	13.1	17.5	13.1	10.9
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°
8531.0	0°	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0	8531.0
8550.7	2.5°	8393.5	8083.5	7782.3	7535.6	7391.5	7147.0	6985.5	6959.3	6891.6	6950.5
8572.5	5°	8231.9	7677.5	7116.5	6614.4	6201.8	5669.1	5271.8	5103.8	4957.5	5007.7
8629.2	7.5°	8155.5	7280.2	6407.0	5549.1	4667.2	3815.8	3182.8	2918.6	2717.8	2746.2
8692.5	10°	8052.9	6867.6	5498.9	4189.1	3008.1	2167.7	1731.1	1569.5	1480.0	1482.2
8786.4	12.5°	7974.4	6374.2	4444.5	2840.0	1831.5	1384.0	1248.7	1209.4	1183.2	1185.3
8928.3	15°	7935.1	5793.6	3403.2	1892.6	1309.8	1172.2	1139.5	1122.0	1104.6	1102.4
9085.5	17.5°	7869.6	5147.4	2490.8	1381.8	1146.1	1098.0	1069.7	1050.0	1028.2	1023.8
9220.8	20°	7771.3	4413.9	1820.6	1167.9	1074.0	1036.9	997.6	971.4	945.2	940.9
9306.0	22.5°	7590.2	3639.0	1399.3	1080.6	1021.6	980.1	932.1	901.6	875.4	871.0
9264.5	25°	7254.0	2912.1	1178.8	1026.0	975.8	925.6	873.2	831.7	807.7	803.3
9175.0	27.5°	6828.3	2287.7	1069.7	975.8	916.8	871.0	812.1	772.8	750.9	746.6
9057.1	30°	6326.2	1761.6	1006.3	919.0	847.0	807.7	755.3	722.6	709.5	709.5
8974.2	32.5°	5784.8	1408.0	980.1	862.3	785.9	742.2	700.7	687.6	683.3	681.1
9020.0	35°	5276.2	1222.5	967.1	816.4	731.3	689.8	672.4	674.5	683.3	683.3
9161.9	37.5°	4824.3	1163.5	960.5	783.7	683.3	646.2	657.1	676.7	668.0	668.0
9410.7	40°	4416.1	1170.1	956.1	759.7	644.0	622.1	644.0	628.7	606.9	604.7
9714.2	42.5°	4104.0	1224.6	947.4	740.0	620.0	604.7	595.9	571.9	569.8	574.1
10028.5	45°	3876.9	1272.7	945.2	731.3	593.8	565.4	554.5	530.5	574.1	585.0
10157.3	47.5°	3608.4	1272.7	945.2	700.7	550.1	539.2	521.7	495.5	539.2	550.1
10035.1	50°	3261.3	1191.9	908.1	665.8	515.2	508.6	478.1	445.3	436.6	443.1
9749.1	52.5°	2822.6	1045.6	814.2	617.8	480.3	467.2	430.0	406.0	399.5	399.5
9236.1	55°	2322.7	875.4	687.6	547.9	443.1	419.1	392.9	382.0	375.5	371.1
8517.9	57.5°	1888.3	718.2	552.3	486.8	408.2	377.7	368.9	355.8	344.9	338.4
7917.6	60°	1549.9	565.4	456.2	432.2	373.3	344.9	342.7	325.3	296.9	292.5
7422.1	62.5°	1196.3	414.8	384.2	375.5	338.4	314.3	310.0	275.1	231.4	222.7
6719.2	65°	844.8	323.1	310.0	329.6	301.2	279.4	268.5	216.1	170.3	163.7
5623.3	67.5°	593.8	270.7	244.5	288.2	262.0	233.6	227.0	183.4	141.9	137.5
4252.4	70°	423.5	220.5	200.8	246.7	209.6	205.2	192.1	152.8	115.7	111.3
2104.4	72.5°	299.1	168.1	155.0	213.9	144.1	176.8	157.2	117.9	87.3	83.0
716.0	75°	220.5	120.1	109.1	124.4	104.8	133.2	111.3	78.6	54.6	52.4
323.1	77.5°	161.5	76.4	65.5	61.1	61.1	83.0	61.1	32.7	24.0	21.8
163.7	80°	113.5	34.9	30.6	26.2	24.0	19.6	8.7	4.4	2.2	2.2
56.8	82.5°	67.7	15.3	15.3	10.9	6.5	0.0	0.0	0.0	0.0	0.0
21.8	85°	15.3	6.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
8.7	87.5°	2.2	2.2	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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