

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: P951762

Luminaire Tested: **GALN-SB5D-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951762
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-SB5D-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 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: 38111.1 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

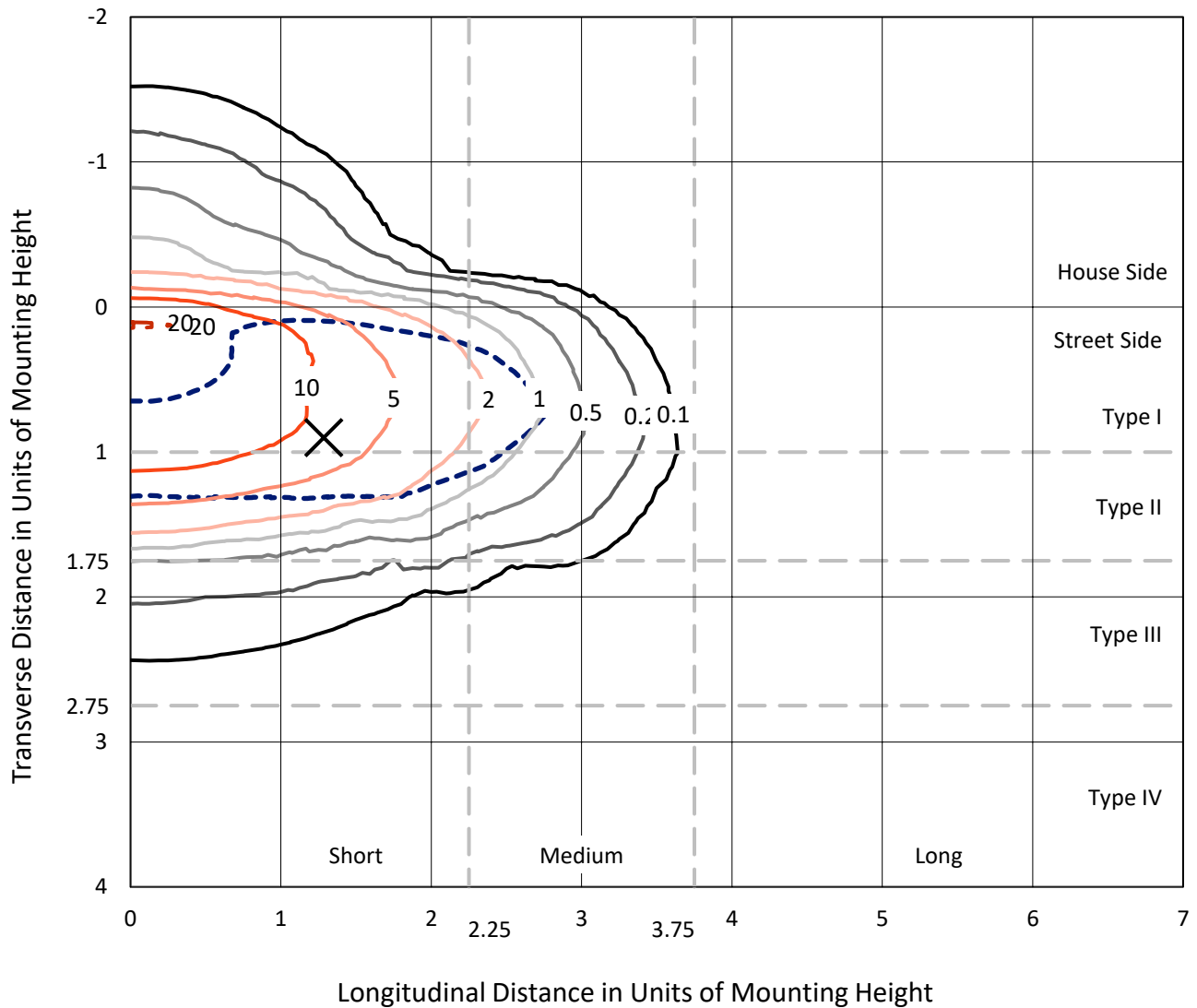
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

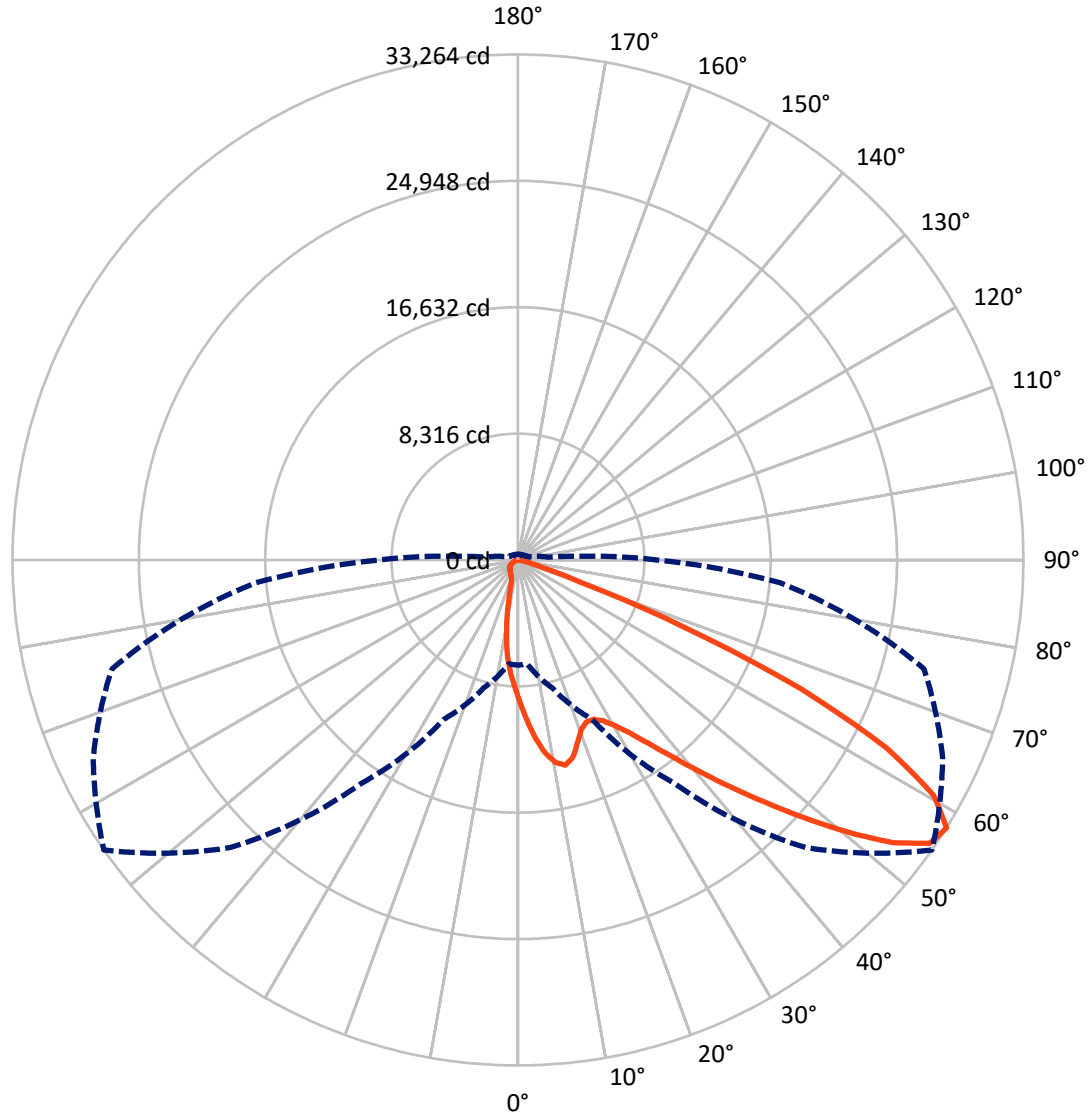
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 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	2976.4	0.0	2976.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	35134.7	0.0	35134.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	38111.1	0.0	38111.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.5	2.2
10°-20°	2064.1	5.4
20°-30°	3302.5	8.7
30°-40°	5589.6	14.7
40°-50°	9177.0	24.1
50°-60°	10086.1	26.5
60°-70°	5785.4	15.2
70°-80°	1182.2	3.1
80°-90°	69.8	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°	38111.1	100.0
0°-180°	38111.1	100.0

Coefficient of Utilization



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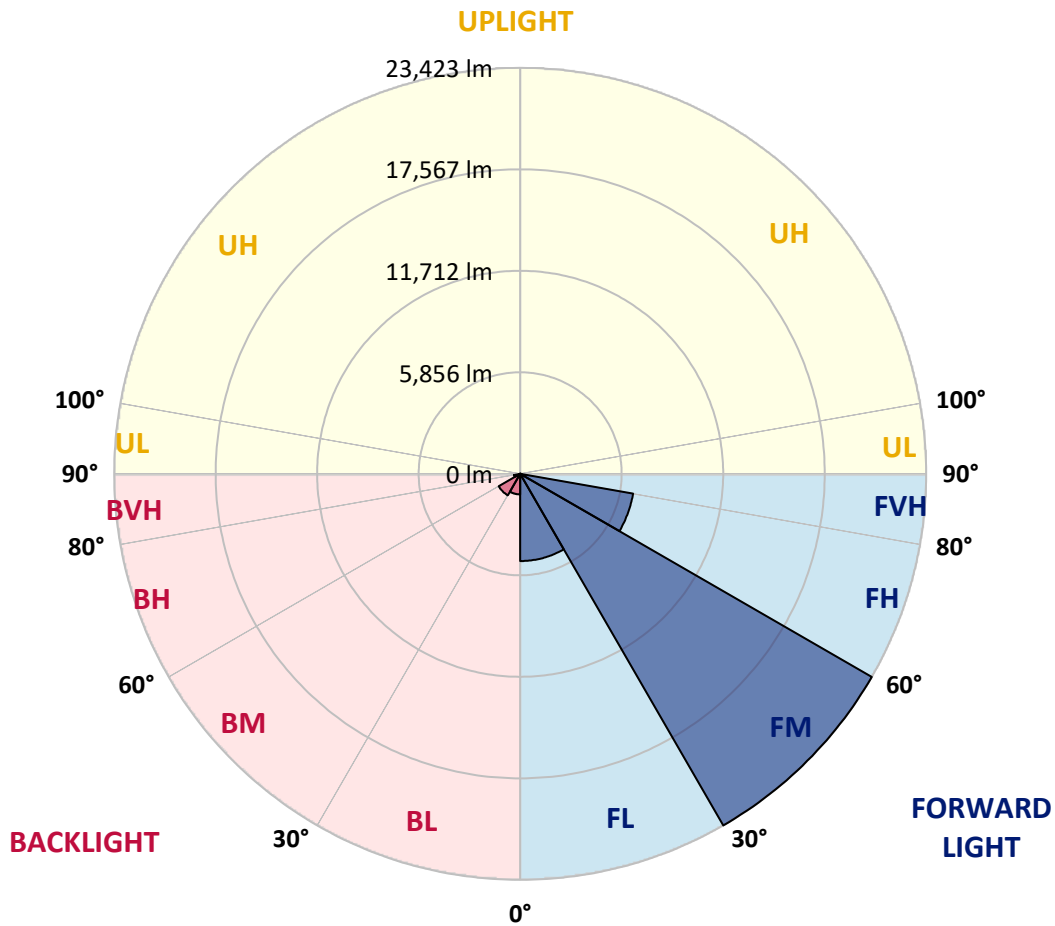
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5032.8	13.2			
FM (30°-60°)	23423.3	61.5			
FH (60°-80°)	6613.6	17.4			G3/7500
FVH (80°-90°)	65.0	0.2			G1/100
BL (0°-30°)	1188.2	3.1	B3/2500		
BM (30°-60°)	1429.5	3.8	B2/2500		
BH (60°-80°)	354.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.7	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°	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8
2.5°	11395.2	11251.8	11230.7	11202.5	10929.9	10725.4	10429.3	10105.0	9740.8	9369.5
5°	13164.7	13051.9	13030.8	12899.2	12589.0	12241.2	11714.8	11049.7	10370.6	9571.6
7.5°	13507.8	13486.7	13583.0	13578.3	13536.0	13261.1	12816.9	12025.0	11005.1	9820.7
10°	11978.0	12032.0	12318.7	12570.2	13249.3	13644.1	13547.8	12894.5	11658.4	10105.0
12.5°	10584.4	10521.0	10725.4	11009.8	11799.4	12974.4	13850.9	13620.6	12405.7	10427.0
15°	9710.2	9684.4	9799.5	9931.1	10532.7	11717.1	13498.4	14210.5	13124.8	10807.7
17.5°	9430.6	9409.4	9444.7	9477.6	9867.7	10784.2	12659.5	14572.4	13813.3	11242.4
20°	9658.5	9630.3	9625.6	9599.8	9761.9	10387.0	11900.4	14598.2	14431.4	11637.2
22.5°	10323.6	10290.7	10175.5	10072.1	10086.2	10441.1	11562.0	14339.7	14896.7	12006.2
25°	11529.1	11475.1	11235.4	10887.6	10666.7	10817.1	11613.7	13999.0	15340.8	12295.2
27.5°	13037.8	12967.3	12659.5	12142.5	11637.2	11453.9	11987.4	13764.0	15709.8	12516.1
30°	14516.0	14424.3	14121.2	13719.3	12981.4	12403.3	12661.8	13867.4	16149.2	12746.4
32.5°	16111.6	16024.7	15622.8	15124.6	14513.6	13735.8	13585.4	14372.6	16687.4	13068.4
35°	18130.3	17994.0	17422.9	16743.8	16095.2	15307.9	14835.6	15244.5	17404.1	13559.5
37.5°	20428.6	20245.3	19629.6	18691.9	17845.9	16964.7	16358.4	16443.0	18454.6	14217.5
40°	22595.3	22428.4	21859.7	20976.1	19913.9	18844.7	18198.4	18010.4	19904.5	15018.9
42.5°	23894.8	23744.4	23504.7	23131.1	22235.7	21145.3	20329.9	19923.3	21620.0	15977.7
45°	23967.7	23836.1	24158.0	24592.8	24416.5	23690.4	22696.3	21951.4	23342.6	16877.7
47.5°	22802.1	22712.8	23690.4	25208.5	25965.2	26270.7	25354.2	23810.2	24764.3	17524.0
50°	19624.9	19592.0	21603.6	24390.7	26555.0	28531.4	28157.7	25539.8	25866.5	17857.7
52.5°	17016.4	16896.5	18069.2	21772.8	25697.3	29720.5	30897.8	27236.5	26637.3	17921.1
55°	12906.2	12800.5	14271.6	17392.4	22931.3	29297.5	32902.4	28987.3	27189.5	17759.0
57.5°	6923.1	6857.3	8716.2	11576.1	17925.8	26759.5	33264.3	30839.1	27654.8	17328.9
60°	2695.5	2683.7	3379.3	5616.5	10894.6	21770.4	31438.3	31950.6	27946.2	16800.2
62.5°	1630.9	1666.2	1779.0	2521.6	4812.8	13524.3	27229.5	30686.3	28141.3	16316.1
65°	1348.9	1351.3	1365.4	1732.0	2305.4	5658.8	20499.1	26526.8	27659.5	15453.6
67.5°	1156.2	1177.4	1231.4	1374.8	1626.2	2481.6	11801.7	20548.4	24729.1	13446.7
70°	911.8	940.0	1008.2	1130.4	1254.9	1553.4	4361.6	13672.3	18891.7	10135.6
72.5°	768.5	766.1	801.4	918.9	996.4	1092.8	1677.9	7661.0	10979.2	4838.7
75°	594.6	618.1	662.7	768.5	815.5	792.0	909.5	2798.9	3933.9	1466.4
77.5°	465.3	484.1	524.1	627.5	674.5	561.7	524.1	1001.1	1264.3	526.4
80°	209.2	225.6	357.2	463.0	549.9	387.8	284.4	512.3	561.7	239.7
82.5°	37.6	63.5	209.2	244.4	282.0	251.5	148.1	265.6	275.0	96.4
85°	2.4	4.7	72.9	89.3	112.8	82.3	44.7	105.8	91.7	32.9
87.5°	0.0	0.0	0.0	2.4	2.4	11.8	14.1	18.8	14.1	11.8
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°
9183.8	0°	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8	9183.8
9205.0	2.5°	9035.8	8702.1	8377.8	8112.2	7957.1	7693.9	7520.0	7491.8	7419.0	7482.4
9228.5	5°	8861.9	8265.0	7661.0	7120.5	6676.4	6103.0	5675.3	5494.3	5336.9	5390.9
9289.6	7.5°	8779.6	7837.3	6897.3	5973.7	5024.3	4107.8	3426.3	3142.0	2925.8	2956.3
9357.7	10°	8669.2	7393.1	5919.7	4509.7	3238.3	2333.6	1863.6	1689.7	1593.3	1595.7
9458.8	12.5°	8584.6	6862.0	4784.6	3057.4	1971.7	1489.9	1344.2	1301.9	1273.7	1276.1
9611.5	15°	8542.3	6236.9	3663.7	2037.5	1410.0	1262.0	1226.7	1207.9	1189.1	1186.8
9780.7	17.5°	8471.8	5541.3	2681.4	1487.6	1233.8	1182.1	1151.5	1130.4	1106.9	1102.2
9926.4	20°	8366.0	4751.7	1959.9	1257.3	1156.2	1116.3	1074.0	1045.8	1017.6	1012.9
10018.1	22.5°	8171.0	3917.5	1506.4	1163.3	1099.8	1055.2	1003.5	970.6	942.4	937.7
9973.4	25°	7809.1	3134.9	1269.0	1104.5	1050.5	996.4	940.0	895.4	869.5	864.8
9877.1	27.5°	7350.8	2462.8	1151.5	1050.5	987.0	937.7	874.2	831.9	808.4	803.7
9750.2	30°	6810.3	1896.5	1083.4	989.4	911.8	869.5	813.1	777.9	763.8	763.8
9660.9	32.5°	6227.5	1515.8	1055.2	928.3	846.0	799.0	754.4	740.3	735.6	733.2
9710.2	35°	5680.0	1316.0	1041.1	878.9	787.3	742.6	723.8	726.2	735.6	735.6
9863.0	37.5°	5193.5	1252.6	1034.0	843.7	735.6	695.6	707.4	728.5	719.1	719.1
10130.9	40°	4754.1	1259.6	1029.3	817.8	693.3	669.8	693.3	676.8	653.3	651.0
10457.5	42.5°	4418.0	1318.4	1019.9	796.7	667.4	651.0	641.6	615.7	613.4	618.1
10795.9	45°	4173.6	1370.1	1017.6	787.3	639.2	608.7	596.9	571.1	618.1	629.8
10934.6	47.5°	3884.6	1370.1	1017.6	754.4	592.2	580.5	561.7	533.5	580.5	592.2
10803.0	50°	3510.9	1283.1	977.6	716.8	554.6	547.6	514.7	479.4	470.0	477.1
10495.1	52.5°	3038.6	1125.7	876.6	665.1	517.0	502.9	463.0	437.1	430.1	430.1
9942.9	55°	2500.4	942.4	740.3	589.9	477.1	451.2	423.0	411.3	404.2	399.5
9169.7	57.5°	2032.8	773.2	594.6	524.1	439.5	406.6	397.2	383.1	371.3	364.3
8523.5	60°	1668.5	608.7	491.2	465.3	401.9	371.3	369.0	350.2	319.6	314.9
7990.0	62.5°	1287.8	446.5	413.6	404.2	364.3	338.4	333.7	296.1	249.1	239.7
7233.3	65°	909.5	347.8	333.7	354.9	324.3	300.8	289.1	232.7	183.3	176.3
6053.6	67.5°	639.2	291.4	263.2	310.2	282.0	251.5	244.4	197.4	152.8	148.1
4577.8	70°	455.9	237.4	216.2	265.6	225.6	220.9	206.8	164.5	124.6	119.9
2265.4	72.5°	322.0	181.0	166.9	230.3	155.1	190.4	169.2	126.9	94.0	89.3
770.8	75°	237.4	129.3	117.5	134.0	112.8	143.4	119.9	84.6	58.8	56.4
347.8	77.5°	173.9	82.3	70.5	65.8	65.8	89.3	65.8	35.3	25.9	23.5
176.3	80°	122.2	37.6	32.9	28.2	25.9	21.2	9.4	4.7	2.4	2.4
61.1	82.5°	72.9	16.5	16.5	11.8	7.1	0.0	0.0	0.0	0.0	0.0
23.5	85°	16.5	7.1	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
9.4	87.5°	2.4	2.4	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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