

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: P954261

Luminaire Tested: **GALN-SB7C-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954261
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-SB7C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 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: 39488 lumens
Efficiency: N/A
Efficacy: 112.7 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

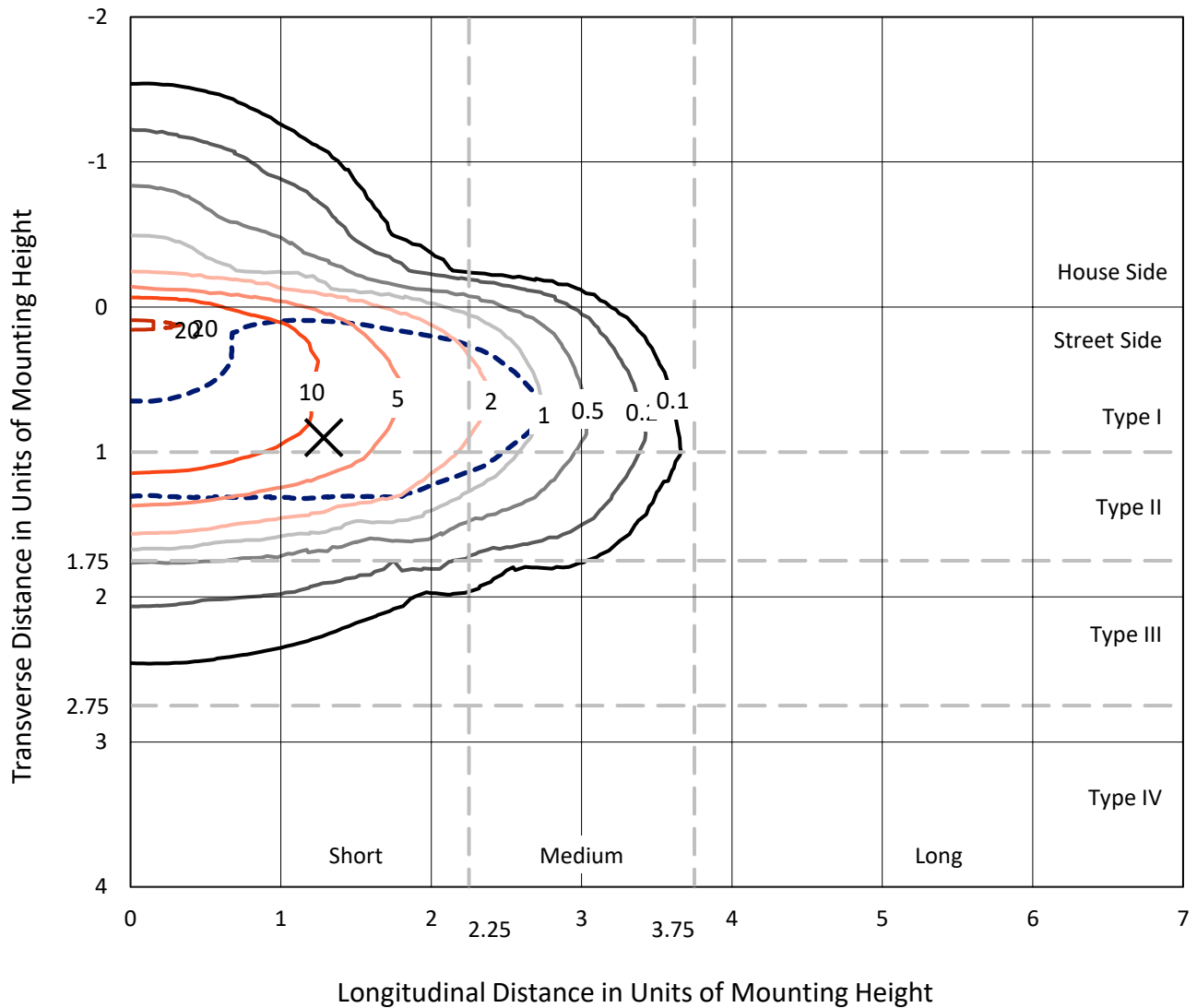
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

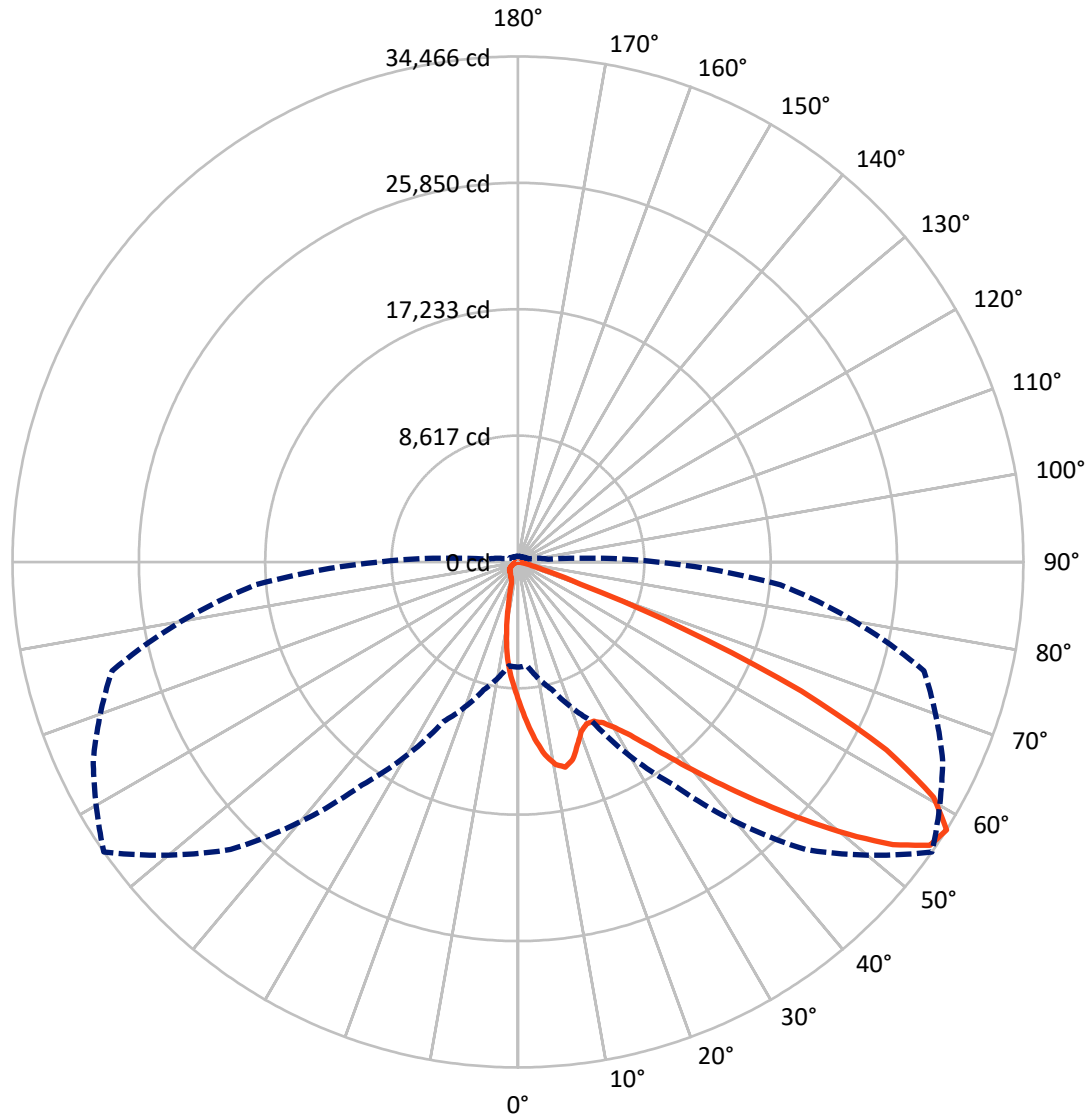
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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	3083.8	0.0	3083.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	36404.1	0.0	36404.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	39488.0	0.0	39488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.4	2.2
10°-20°	2138.6	5.4
20°-30°	3421.8	8.7
30°-40°	5791.6	14.7
40°-50°	9508.5	24.1
50°-60°	10450.6	26.5
60°-70°	5994.4	15.2
70°-80°	1224.8	3.1
80°-90°	72.2	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°	39488.0	100.0
0°-180°	39488.0	100.0

Coefficient of Utilization



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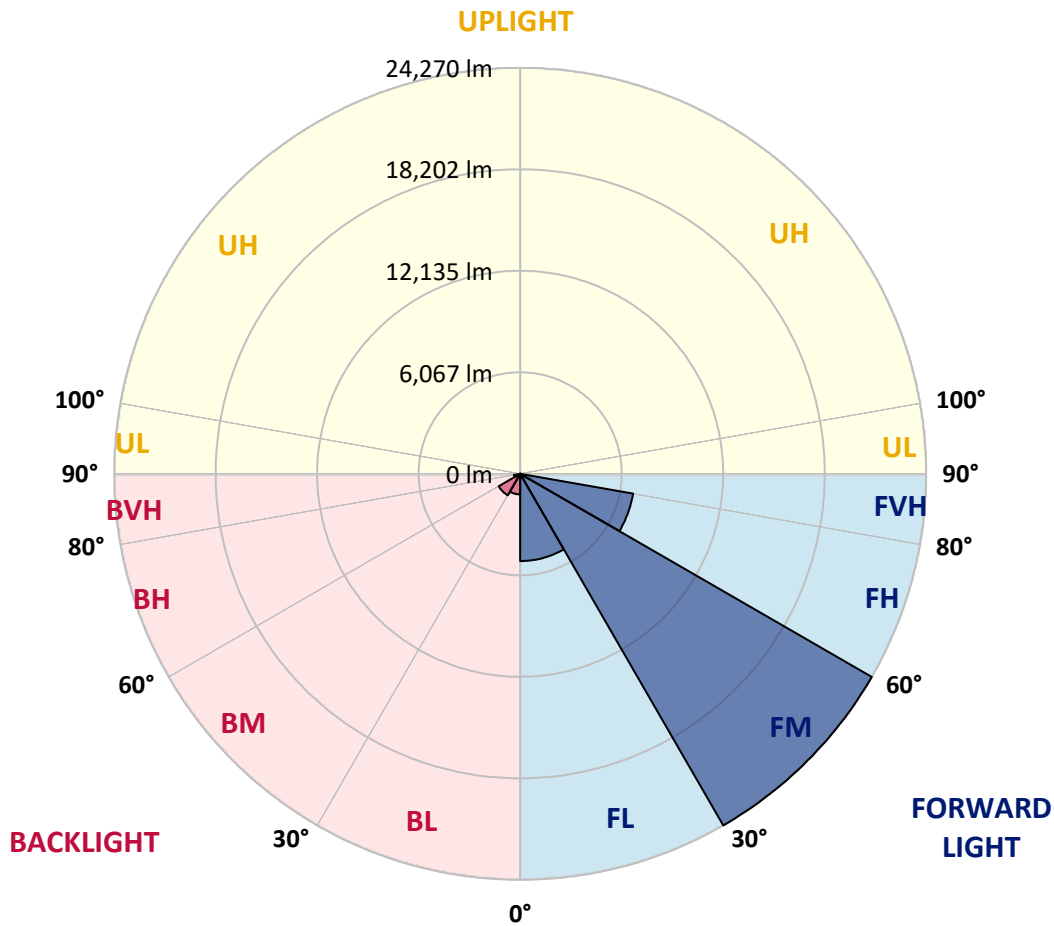
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5214.6	13.2			
FM (30°-60°)	24269.6	61.5			
FH (60°-80°)	6852.5	17.4			G3/7500
FVH (80°-90°)	67.4	0.2			G1/100
BL (0°-30°)	1231.2	3.1	B3/2500		
BM (30°-60°)	1481.1	3.8	B2/2500		
BH (60°-80°)	366.8	0.9	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6
2.5°	11806.9	11658.4	11636.4	11607.2	11324.8	11112.9	10806.1	10470.1	10092.7	9708.0
5°	13640.4	13523.5	13501.6	13365.2	13043.8	12683.5	12138.0	11449.0	10745.3	9917.4
7.5°	13995.9	13974.0	14073.8	14068.9	14025.1	13740.2	13280.0	12459.4	11402.7	10175.5
10°	12410.7	12466.7	12763.8	13024.3	13728.0	14137.1	14037.3	13360.4	12079.6	10470.1
12.5°	10966.8	10901.1	11112.9	11407.6	12225.7	13443.1	14351.4	14112.7	12853.9	10803.7
15°	10061.1	10034.3	10153.6	10289.9	10913.3	12140.5	13986.1	14723.9	13599.0	11198.2
17.5°	9771.3	9749.4	9785.9	9820.0	10224.2	11173.8	13116.9	15098.9	14312.4	11648.6
20°	10007.5	9978.3	9973.4	9946.6	10114.6	10762.3	12330.4	15125.7	14952.8	12057.7
22.5°	10696.6	10662.5	10543.2	10436.0	10450.6	10818.3	11979.8	14857.8	15434.9	12440.0
25°	11945.7	11889.7	11641.3	11280.9	11052.1	11207.9	12033.3	14504.8	15895.1	12739.5
27.5°	13508.9	13435.8	13116.9	12581.2	12057.7	11867.8	12420.5	14261.3	16277.4	12968.3
30°	15040.4	14945.5	14631.4	14215.0	13450.5	12851.5	13119.3	14368.4	16732.7	13207.0
32.5°	16693.8	16603.7	16187.3	15671.1	15038.0	14232.1	14076.2	14891.9	17290.3	13540.5
35°	18785.3	18644.1	18052.4	17348.7	16676.7	15861.0	15371.6	15795.3	18033.0	14049.4
37.5°	21166.7	20976.8	20338.8	19367.3	18490.7	17577.6	16949.4	17037.1	19121.4	14731.2
40°	23411.7	23238.8	22649.5	21734.0	20633.4	19525.6	18856.0	18661.2	20623.7	15561.5
42.5°	24758.2	24602.3	24354.0	23966.8	23039.1	21909.3	21064.4	20643.2	22401.2	16555.0
45°	24833.7	24697.3	25030.9	25481.4	25298.7	24546.3	23516.4	22744.5	24186.0	17487.5
47.5°	23625.9	23533.4	24546.3	26119.3	26903.3	27219.9	26270.3	24670.5	25659.1	18157.1
50°	20333.9	20299.9	22384.1	25271.9	27514.5	29562.3	29175.1	26462.6	26801.1	18502.9
52.5°	17631.2	17507.0	18722.0	22559.5	26625.8	30794.3	32014.2	28220.6	27599.7	18568.6
55°	13372.5	13263.0	14787.2	18020.8	23759.9	30356.0	34091.2	30034.6	28171.9	18400.6
57.5°	7173.2	7105.1	9031.1	11994.4	18573.5	27726.3	34466.2	31953.3	28654.0	17955.0
60°	2792.8	2780.7	3501.4	5819.4	11288.3	22557.0	32574.2	33105.1	28956.0	17407.2
62.5°	1689.8	1726.4	1843.2	2612.7	4986.7	14012.9	28213.3	31795.1	29158.1	16905.6
65°	1397.6	1400.1	1414.7	1794.5	2388.6	5863.3	21239.7	27485.3	28658.9	16012.0
67.5°	1198.0	1219.9	1275.9	1424.4	1685.0	2571.3	12228.1	21290.9	25622.6	13932.6
70°	944.7	974.0	1044.6	1171.2	1300.2	1609.5	4519.2	14166.3	19574.3	10501.8
72.5°	796.2	793.8	830.3	952.1	1032.4	1132.2	1738.5	7937.8	11375.9	5013.5
75°	616.0	640.4	686.6	796.2	844.9	820.6	942.3	2900.0	4076.0	1519.4
77.5°	482.1	501.6	543.0	650.1	698.8	581.9	543.0	1037.3	1310.0	545.4
80°	216.7	233.8	370.1	479.7	569.8	401.8	294.6	530.8	581.9	248.4
82.5°	39.0	65.7	216.7	253.2	292.2	260.5	153.4	275.1	284.9	99.8
85°	2.4	4.9	75.5	92.5	116.9	85.2	46.3	109.6	95.0	34.1
87.5°	0.0	0.0	0.0	2.4	2.4	12.2	14.6	19.5	14.6	12.2
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°
9515.6	0°	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6	9515.6
9537.5	2.5°	9362.2	9016.5	8680.5	8405.3	8244.6	7971.9	7791.7	7762.5	7687.0	7752.8
9561.9	5°	9182.1	8563.6	7937.8	7377.8	6917.6	6323.5	5880.3	5692.8	5529.7	5585.7
9625.2	7.5°	9096.8	8120.4	7146.5	6189.5	5205.8	4256.2	3550.1	3255.5	3031.5	3063.1
9695.8	10°	8982.4	7660.2	6133.5	4672.6	3355.3	2417.9	1930.9	1750.7	1650.9	1653.3
9800.5	12.5°	8894.7	7109.9	4957.5	3167.8	2042.9	1543.7	1392.8	1348.9	1319.7	1322.2
9958.8	15°	8850.9	6462.3	3796.0	2111.1	1460.9	1307.5	1271.0	1251.5	1232.1	1229.6
10134.1	17.5°	8777.9	5741.5	2778.2	1541.3	1278.3	1224.8	1193.1	1171.2	1146.8	1142.0
10285.1	20°	8668.3	4923.4	2030.7	1302.7	1198.0	1156.6	1112.8	1083.5	1054.3	1049.4
10380.0	22.5°	8466.2	4059.0	1560.8	1205.3	1139.5	1093.3	1039.7	1005.6	976.4	971.5
10333.8	25°	8091.2	3248.2	1314.9	1144.4	1088.4	1032.4	974.0	927.7	900.9	896.0
10233.9	27.5°	7616.4	2551.8	1193.1	1088.4	1022.7	971.5	905.8	862.0	837.6	832.7
10102.4	30°	7056.4	1965.0	1122.5	1025.1	944.7	900.9	842.5	806.0	791.3	791.3
10009.9	32.5°	6452.5	1570.5	1093.3	961.8	876.6	827.9	781.6	767.0	762.1	759.7
10061.1	35°	5885.2	1363.6	1078.7	910.7	815.7	769.4	750.0	752.4	762.1	762.1
10219.3	37.5°	5381.2	1297.8	1071.4	874.1	762.1	720.7	732.9	754.8	745.1	745.1
10496.9	40°	4925.8	1305.1	1066.5	847.3	718.3	693.9	718.3	701.3	676.9	674.5
10835.4	42.5°	4577.6	1366.0	1056.8	825.4	691.5	674.5	664.7	637.9	635.5	640.4
11186.0	45°	4324.4	1419.6	1054.3	815.7	662.3	630.6	618.5	591.7	640.4	652.6
11329.6	47.5°	4024.9	1419.6	1054.3	781.6	613.6	601.4	581.9	552.7	601.4	613.6
11193.3	50°	3637.8	1329.5	1012.9	742.6	574.6	567.3	533.2	496.7	487.0	494.3
10874.3	52.5°	3148.3	1166.3	908.2	689.1	535.7	521.1	479.7	452.9	445.6	445.6
10302.1	55°	2590.7	976.4	767.0	611.2	494.3	467.5	438.3	426.1	418.8	413.9
9501.0	57.5°	2106.2	801.1	616.0	543.0	455.3	421.2	411.5	396.9	384.7	377.4
8831.4	60°	1728.8	630.6	508.9	482.1	416.4	384.7	382.3	362.8	331.1	326.3
8278.7	62.5°	1334.3	462.6	428.5	418.8	377.4	350.6	345.8	306.8	258.1	248.4
7494.7	65°	942.3	360.4	345.8	367.7	336.0	311.7	299.5	241.1	189.9	182.6
6272.3	67.5°	662.3	301.9	272.7	321.4	292.2	260.5	253.2	204.5	158.3	153.4
4743.2	70°	472.4	245.9	224.0	275.1	233.8	228.9	214.3	170.4	129.1	124.2
2347.3	72.5°	333.6	187.5	172.9	238.6	160.7	197.2	175.3	131.5	97.4	92.5
798.7	75°	245.9	133.9	121.7	138.8	116.9	148.5	124.2	87.7	60.9	58.4
360.4	77.5°	180.2	85.2	73.0	68.2	68.2	92.5	68.2	36.5	26.8	24.3
182.6	80°	126.6	39.0	34.1	29.2	26.8	21.9	9.7	4.9	2.4	2.4
63.3	82.5°	75.5	17.0	17.0	12.2	7.3	0.0	0.0	0.0	0.0	0.0
24.3	85°	17.0	7.3	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0
9.7	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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