

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: P950292

Luminaire Tested: **GALN-SB4D-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950292
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-SB4D-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 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: 36789 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

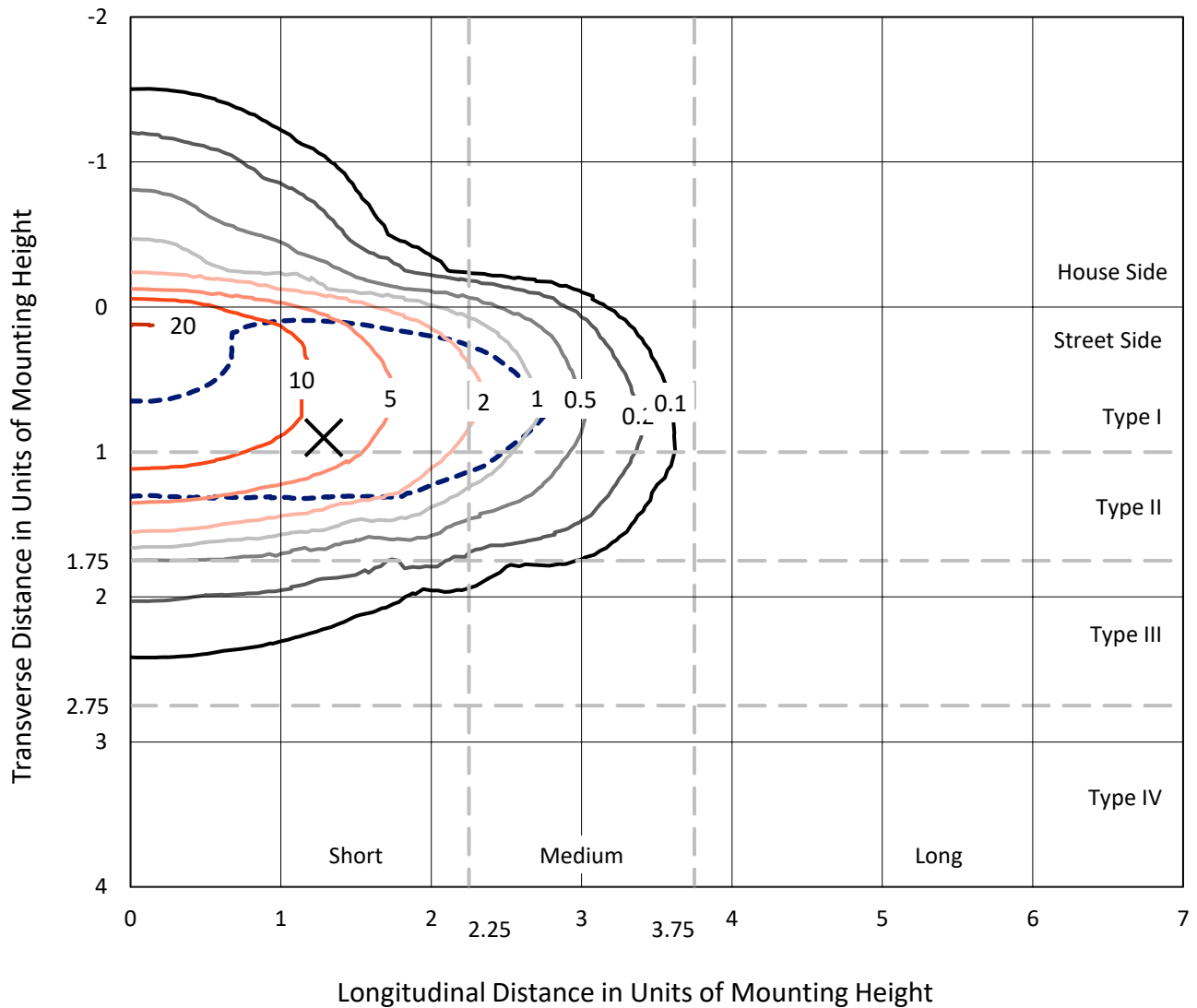
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

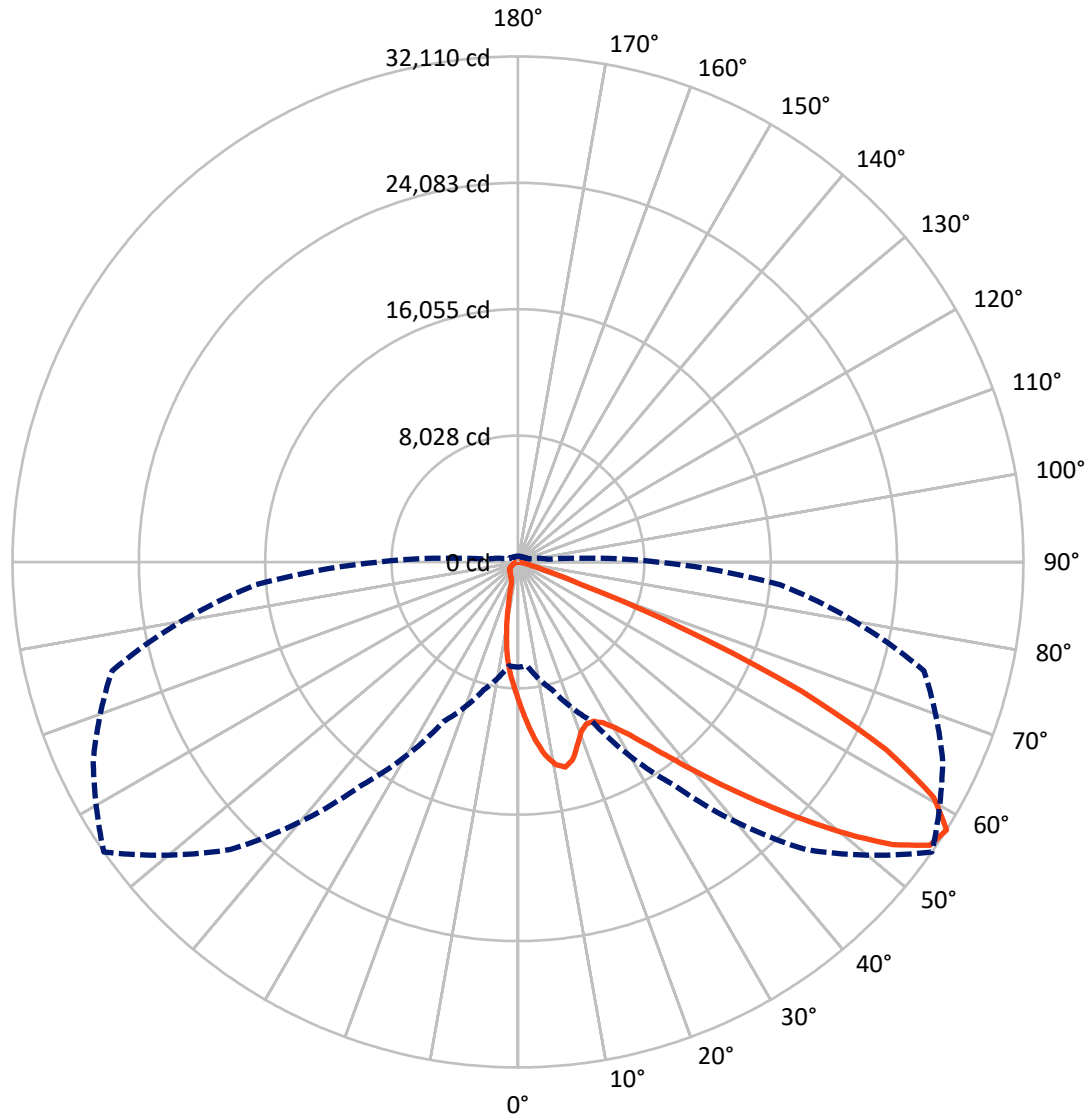
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	2873.1	0.0	2873.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	33915.9	0.0	33915.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	36789.0	0.0	36789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.9	2.2
10°-20°	1992.5	5.4
20°-30°	3187.9	8.7
30°-40°	5395.7	14.7
40°-50°	8858.6	24.1
50°-60°	9736.3	26.5
60°-70°	5584.7	15.2
70°-80°	1141.1	3.1
80°-90°	67.3	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°	36789.0	100.0
0°-180°	36789.0	100.0

Coefficient of Utilization



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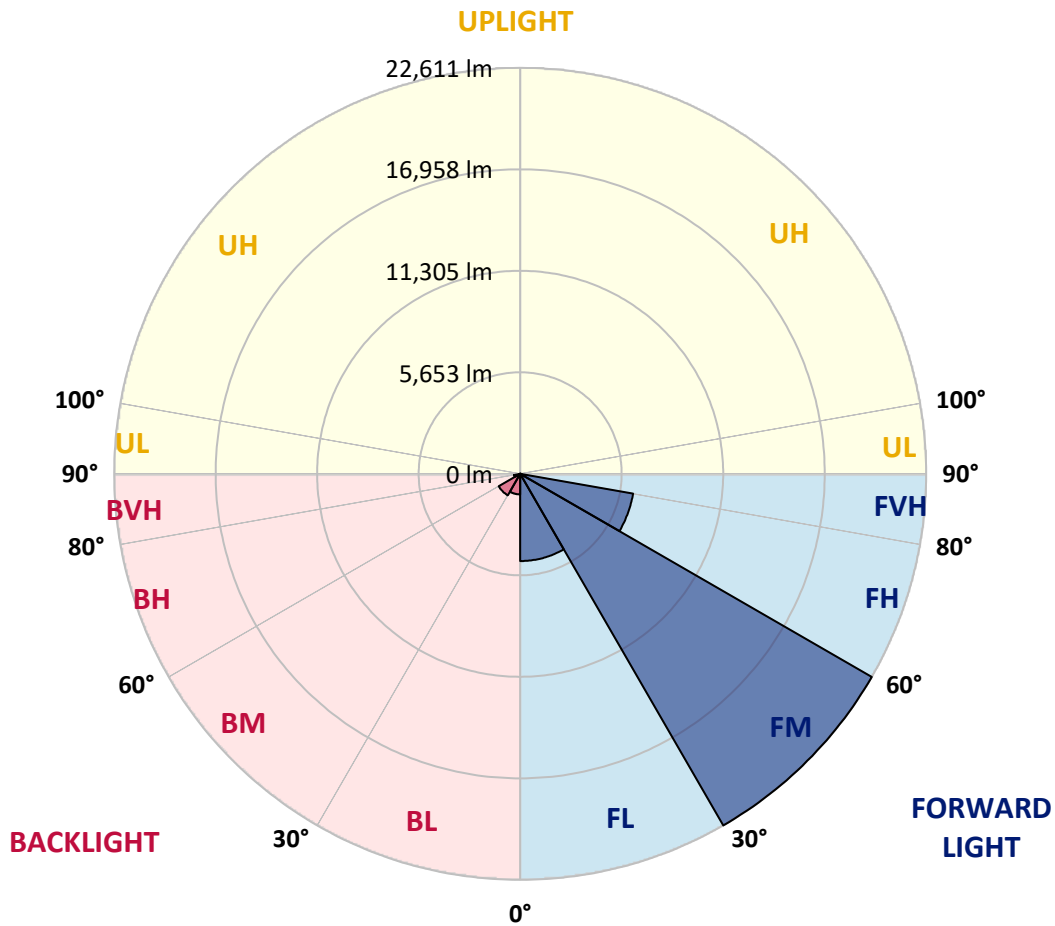
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4858.2	13.2			
FM (30°-60°)	22610.8	61.5			
FH (60°-80°)	6384.2	17.4			G3/7500
FVH (80°-90°)	62.8	0.2			G1/100
BL (0°-30°)	1147.0	3.1	B3/2500		
BM (30°-60°)	1379.8	3.8	B2/2500		
BH (60°-80°)	341.7	0.9	B1/500		G1/500
BVH (80°-90°)	4.5	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°	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2
2.5°	10999.9	10861.5	10841.1	10813.9	10550.7	10353.4	10067.5	9754.5	9402.9	9044.5
5°	12708.1	12599.2	12578.8	12451.7	12152.3	11816.5	11308.4	10666.4	10010.8	9239.5
7.5°	13039.3	13018.8	13111.8	13107.3	13066.5	12801.1	12372.3	11607.8	10623.3	9480.0
10°	11562.5	11614.6	11891.4	12134.1	12789.7	13170.8	13077.8	12447.2	11254.0	9754.5
12.5°	10217.3	10156.0	10353.4	10627.9	11390.1	12524.3	13370.5	13148.1	11975.3	10065.3
15°	9373.4	9348.4	9459.6	9586.6	10167.4	11310.7	13030.2	13717.5	12669.5	10432.8
17.5°	9103.4	9083.0	9117.0	9148.8	9525.4	10410.1	12220.3	14066.9	13334.2	10852.4
20°	9323.5	9296.3	9291.7	9266.8	9423.3	10026.7	11487.6	14091.8	13930.8	11233.5
22.5°	9965.5	9933.7	9822.5	9722.7	9736.3	10078.9	11160.9	13842.3	14379.9	11589.7
25°	11129.2	11077.0	10845.6	10509.9	10296.7	10441.8	11210.9	13513.4	14808.7	11868.7
27.5°	12585.6	12517.5	12220.3	11721.3	11233.5	11056.6	11571.5	13286.5	15164.8	12082.0
30°	14012.4	13924.0	13631.3	13243.4	12531.1	11973.1	12222.6	13386.3	15589.0	12304.3
32.5°	15552.7	15468.8	15080.9	14600.0	14010.2	13259.3	13114.1	13874.1	16108.5	12615.0
35°	17501.4	17369.8	16818.6	16163.0	15536.9	14776.9	14321.0	14715.7	16800.4	13089.2
37.5°	19719.9	19543.0	18948.7	18043.5	17226.9	16376.2	15790.9	15872.6	17814.4	13724.3
40°	21811.5	21650.4	21101.5	20248.5	19223.1	18191.0	17567.2	17385.7	19214.1	14497.9
42.5°	23066.0	22920.8	22689.4	22328.7	21464.4	20411.8	19624.7	19232.2	20870.1	15423.4
45°	23136.3	23009.3	23320.0	23739.7	23569.6	22868.6	21909.0	21189.9	22532.9	16292.3
47.5°	22011.1	21924.9	22868.6	24334.0	25064.5	25359.4	24474.7	22984.3	23905.3	16916.1
50°	18944.1	18912.4	20854.2	23544.6	25633.9	27541.7	27181.0	24653.9	24969.2	17238.2
52.5°	16426.1	16310.4	17442.4	21017.5	24805.9	28689.5	29826.1	26291.7	25713.3	17299.5
55°	12458.5	12356.4	13776.5	16789.1	22135.9	28281.2	31761.1	27981.8	26246.4	17142.9
57.5°	6683.0	6619.4	8413.8	11174.6	17304.0	25831.2	32110.4	29769.3	26695.5	16727.8
60°	2602.0	2590.6	3262.1	5421.7	10516.7	21015.3	30347.8	30842.3	26976.8	16217.4
62.5°	1574.3	1608.4	1717.2	2434.1	4645.9	13055.1	26284.9	29621.9	27165.1	15750.1
65°	1302.1	1304.4	1318.0	1671.9	2225.4	5462.5	19788.0	25606.7	26700.1	14917.6
67.5°	1116.1	1136.5	1188.7	1327.1	1569.8	2395.5	11392.3	19835.6	23871.3	12980.3
70°	880.2	907.4	973.2	1091.1	1211.4	1499.5	4210.3	13198.1	18236.4	9784.0
72.5°	741.8	739.5	773.6	887.0	961.8	1054.8	1619.7	7395.3	10598.4	4670.8
75°	573.9	596.6	639.7	741.8	787.2	764.5	877.9	2701.8	3797.4	1415.5
77.5°	449.2	467.3	505.9	605.7	651.1	542.2	505.9	966.4	1220.4	508.1
80°	201.9	217.8	344.8	446.9	530.8	374.3	274.5	494.5	542.2	231.4
82.5°	36.3	61.2	201.9	235.9	272.2	242.7	142.9	256.3	265.4	93.0
85°	2.3	4.5	70.3	86.2	108.9	79.4	43.1	102.1	88.5	31.8
87.5°	0.0	0.0	0.0	2.3	2.3	11.3	13.6	18.1	13.6	11.3
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°
8865.2	0°	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2
8885.7	2.5°	8722.3	8400.2	8087.2	7830.8	7681.1	7427.0	7259.2	7231.9	7161.6	7222.9
8908.3	5°	8554.5	7978.3	7395.3	6873.5	6444.8	5891.3	5478.4	5303.7	5151.7	5203.9
8967.3	7.5°	8475.1	7565.4	6658.0	5766.5	4850.0	3965.3	3307.5	3033.0	2824.3	2853.8
9033.1	10°	8368.4	7136.7	5714.3	4353.2	3126.0	2252.6	1798.9	1631.0	1538.0	1540.3
9130.7	12.5°	8286.8	6624.0	4618.6	2951.3	1903.3	1438.2	1297.6	1256.7	1229.5	1231.8
9278.1	15°	8245.9	6020.6	3536.6	1966.8	1361.1	1218.2	1184.1	1166.0	1147.9	1145.6
9441.4	17.5°	8177.9	5349.1	2588.3	1436.0	1191.0	1141.0	1111.6	1091.1	1068.5	1063.9
9582.1	20°	8075.8	4586.9	1891.9	1213.6	1116.1	1077.5	1036.7	1009.5	982.3	977.7
9670.6	22.5°	7887.5	3781.6	1454.1	1122.9	1061.7	1018.6	968.6	936.9	909.7	905.1
9627.5	25°	7538.2	3026.2	1225.0	1066.2	1014.0	961.8	907.4	864.3	839.3	834.8
9534.4	27.5°	7095.8	2377.4	1111.6	1014.0	952.8	905.1	843.9	803.0	780.4	775.8
9411.9	30°	6574.1	1830.7	1045.8	955.0	880.2	839.3	784.9	750.9	737.3	737.3
9325.7	32.5°	6011.5	1463.2	1018.6	896.1	816.7	771.3	728.2	714.6	710.0	707.8
9373.4	35°	5482.9	1270.4	1004.9	848.4	759.9	716.8	698.7	701.0	710.0	710.0
9520.8	37.5°	5013.4	1209.1	998.1	814.4	710.0	671.5	682.8	703.2	694.2	694.2
9779.4	40°	4589.1	1215.9	993.6	789.4	669.2	646.5	669.2	653.3	630.6	628.4
10094.8	42.5°	4264.8	1272.6	984.5	769.0	644.2	628.4	619.3	594.3	592.1	596.6
10421.4	45°	4028.8	1322.5	982.3	759.9	617.0	587.5	576.2	551.2	596.6	608.0
10555.3	47.5°	3749.8	1322.5	982.3	728.2	571.7	560.3	542.2	514.9	560.3	571.7
10428.2	50°	3389.1	1238.6	943.7	691.9	535.4	528.6	496.8	462.8	453.7	460.5
10131.1	52.5°	2933.2	1086.6	846.1	642.0	499.1	485.5	446.9	421.9	415.1	415.1
9598.0	55°	2413.7	909.7	714.6	569.4	460.5	435.5	408.3	397.0	390.2	385.6
8851.6	57.5°	1962.2	746.3	573.9	505.9	424.2	392.4	383.4	369.8	358.4	351.6
8227.8	60°	1610.6	587.5	474.1	449.2	387.9	358.4	356.2	338.0	308.5	304.0
7712.9	62.5°	1243.1	431.0	399.3	390.2	351.6	326.7	322.1	285.8	240.5	231.4
6982.4	65°	877.9	335.7	322.1	342.5	313.1	290.4	279.0	224.6	176.9	170.1
5843.6	67.5°	617.0	281.3	254.1	299.4	272.2	242.7	235.9	190.6	147.5	142.9
4419.0	70°	440.1	229.1	208.7	256.3	217.8	213.2	199.6	158.8	120.2	115.7
2186.8	72.5°	310.8	174.7	161.1	222.3	149.7	183.7	163.3	122.5	90.7	86.2
744.1	75°	229.1	124.8	113.4	129.3	108.9	138.4	115.7	81.7	56.7	54.4
335.7	77.5°	167.9	79.4	68.1	63.5	63.5	86.2	63.5	34.0	25.0	22.7
170.1	80°	118.0	36.3	31.8	27.2	25.0	20.4	9.1	4.5	2.3	2.3
59.0	82.5°	70.3	15.9	15.9	11.3	6.8	0.0	0.0	0.0	0.0	0.0
22.7	85°	15.9	6.8	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	2.3	2.3	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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