

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: P950397

Luminaire Tested: **GALN-SB4D-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950397  
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-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

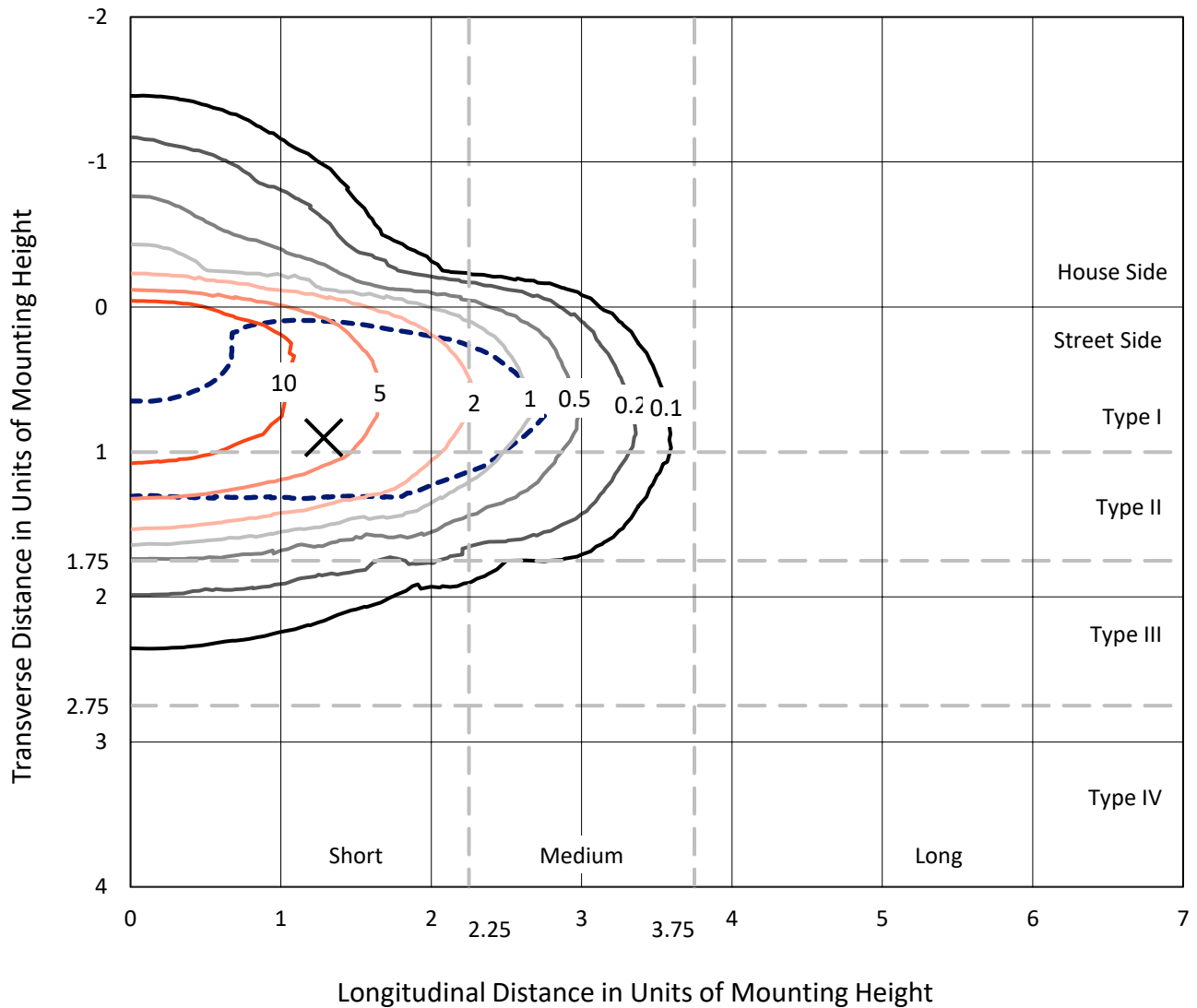
Lumens per Lamp: N/A  
Luminaire Lumens: 33261 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

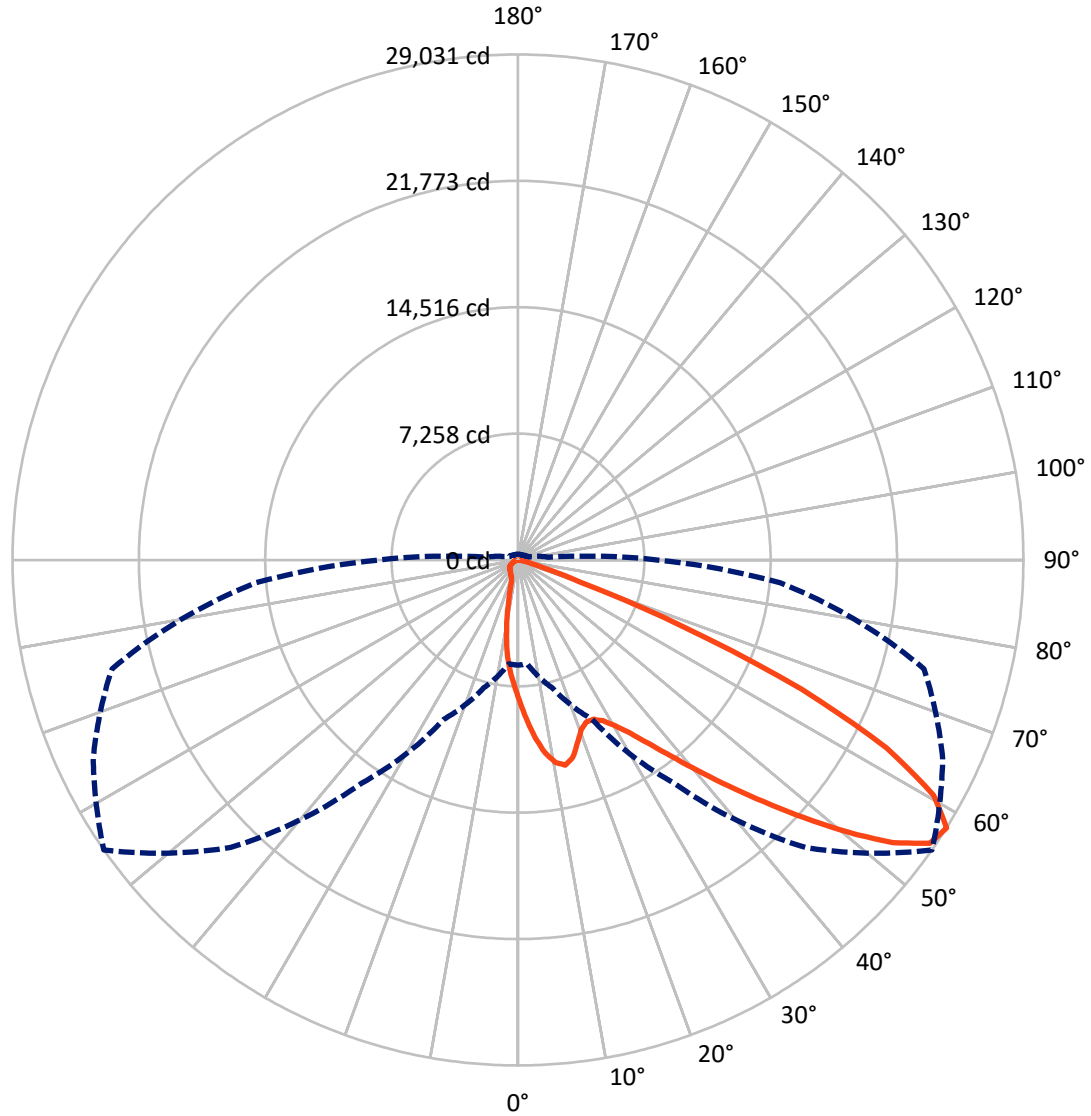
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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
<b>House Side</b>	Lumens	2597.6	0.0	2597.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	30663.5	0.0	30663.5
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	33261.0	0.0	33261.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.8	2.2
10°-20°	1801.4	5.4
20°-30°	2882.2	8.7
30°-40°	4878.3	14.7
40°-50°	8009.1	24.1
50°-60°	8802.6	26.5
60°-70°	5049.2	15.2
70°-80°	1031.7	3.1
80°-90°	60.9	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°	33261.0	100.0
0°-180°	33261.0	100.0

**Coefficient of Utilization**



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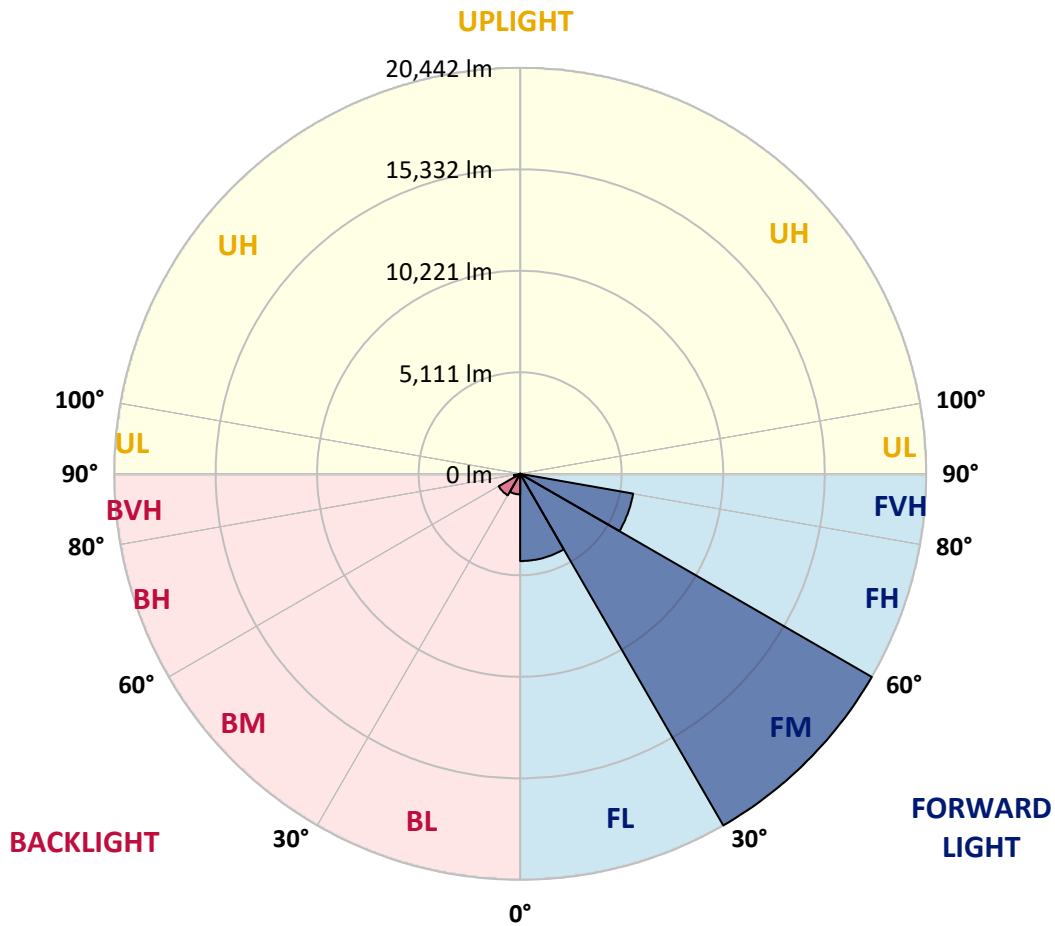
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4392.3	13.2			
FM (30°-60°)	20442.5	61.5			
FH (60°-80°)	5771.9	17.4			G3/7500
FVH (80°-90°)	56.8	0.2			G1/100
BL (0°-30°)	1037.0	3.1	B3/2500		
BM (30°-60°)	1247.5	3.8	B2/2500		
BH (60°-80°)	308.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	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°	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1
2.5°	9945.0	9819.9	9801.5	9776.8	9538.9	9360.5	9102.1	8819.1	8501.2	8177.1
5°	11489.4	11390.9	11372.5	11257.6	10986.9	10683.4	10223.9	9643.5	9050.8	8353.5
7.5°	11788.8	11770.4	11854.4	11850.3	11813.4	11573.5	11185.8	10494.7	9604.6	8570.9
10°	10453.7	10500.8	10751.0	10970.5	11563.2	11907.8	11823.7	11253.5	10174.7	8819.1
12.5°	9237.4	9182.1	9360.5	9608.7	10297.8	11323.3	12088.3	11887.3	10826.9	9100.0
15°	8474.5	8451.9	8552.4	8667.3	9192.3	10226.0	11780.6	12402.0	11454.5	9432.3
17.5°	8230.4	8212.0	8242.7	8271.4	8611.9	9411.8	11048.4	12717.9	12055.4	9811.7
20°	8429.4	8404.8	8400.7	8378.1	8519.6	9065.2	10386.0	12740.5	12594.8	10156.3
22.5°	9009.8	8981.1	8880.6	8790.3	8802.6	9112.3	10090.6	12514.8	13000.9	10478.3
25°	10061.9	10014.7	9805.6	9502.0	9309.2	9440.5	10135.8	12217.5	13388.5	10730.5
27.5°	11378.6	11317.1	11048.4	10597.2	10156.3	9996.3	10461.9	12012.4	13710.5	10923.3
30°	12668.7	12588.7	12324.1	11973.4	11329.4	10824.9	11050.5	12102.6	14094.1	11124.3
32.5°	14061.3	13985.4	13634.7	13199.9	12666.6	11987.8	11856.5	12543.6	14563.7	11405.3
35°	15823.0	15704.1	15205.7	14613.0	14046.9	13359.8	12947.6	13304.5	15189.3	11833.9
37.5°	17828.8	17668.9	17131.5	16313.2	15574.9	14805.8	14276.6	14350.4	16106.0	12408.2
40°	19719.8	19574.2	19077.9	18306.7	17379.7	16446.5	15882.5	15718.4	17371.5	13107.6
42.5°	20854.0	20722.7	20513.5	20187.4	19406.0	18454.4	17742.7	17387.9	18868.7	13944.4
45°	20917.6	20802.7	21083.7	21463.1	21309.3	20675.5	19808.0	19157.8	20372.0	14729.9
47.5°	19900.3	19822.4	20675.5	22000.5	22660.9	22927.5	22127.6	20780.1	21612.8	15293.9
50°	17127.4	17098.7	18854.3	21286.7	23175.6	24900.5	24574.4	22289.6	22574.7	15585.1
52.5°	14850.9	14746.3	15769.7	19002.0	22427.1	25938.3	26965.8	23770.4	23247.4	15640.5
55°	11263.8	11171.5	12455.4	15179.0	20013.1	25569.1	28715.2	25298.4	23729.4	15499.0
57.5°	6042.1	5984.6	7606.9	10102.9	15644.6	23354.1	29031.1	26914.5	24135.5	15123.6
60°	2352.4	2342.2	2949.3	4901.8	9508.2	18999.9	27437.5	27884.6	24389.8	14662.2
62.5°	1423.4	1454.1	1552.6	2200.7	4200.3	11803.2	23764.3	26781.2	24560.0	14239.7
65°	1177.2	1179.3	1191.6	1511.5	2012.0	4938.7	17890.4	23151.0	24139.6	13487.0
67.5°	1009.1	1027.5	1074.7	1199.8	1419.3	2165.8	10299.8	17933.4	21582.1	11735.5
70°	795.8	820.4	879.9	986.5	1095.2	1355.7	3806.5	11932.4	16487.5	8845.7
72.5°	670.7	668.6	699.4	801.9	869.6	953.7	1464.4	6686.1	9582.0	4222.9
75°	518.9	539.4	578.4	670.7	711.7	691.2	793.7	2442.7	3433.3	1279.8
77.5°	406.1	422.5	457.4	547.6	588.6	490.2	457.4	873.7	1103.4	459.4
80°	182.5	196.9	311.7	404.0	479.9	338.4	248.2	447.1	490.2	209.2
82.5°	32.8	55.4	182.5	213.3	246.1	219.5	129.2	231.8	240.0	84.1
85°	2.1	4.1	63.6	77.9	98.4	71.8	39.0	92.3	80.0	28.7
87.5°	0.0	0.0	0.0	2.1	2.1	10.3	12.3	16.4	12.3	10.3
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°
8015.1	0°	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1	8015.1
8033.5	2.5°	7885.9	7594.6	7311.6	7079.9	6944.5	6714.8	6563.0	6538.4	6474.8	6530.2
8054.0	5°	7734.1	7213.2	6686.1	6214.4	5826.7	5326.3	4953.0	4795.1	4657.7	4704.9
8107.4	7.5°	7662.3	6839.9	6019.5	5213.5	4384.9	3585.0	2990.3	2742.1	2553.4	2580.1
8166.9	10°	7565.9	6452.3	5166.3	3935.8	2826.2	2036.6	1626.4	1474.6	1390.5	1392.6
8255.0	12.5°	7492.1	5988.8	4175.7	2668.3	1720.7	1300.3	1173.1	1136.2	1111.6	1113.7
8388.4	15°	7455.2	5443.2	3197.4	1778.2	1230.6	1101.4	1070.6	1054.2	1037.8	1035.7
8536.0	17.5°	7393.6	4836.1	2340.1	1298.2	1076.7	1031.6	1005.0	986.5	966.0	961.9
8663.2	20°	7301.4	4147.0	1710.5	1097.3	1009.1	974.2	937.3	912.7	888.1	884.0
8743.2	22.5°	7131.1	3418.9	1314.7	1015.2	959.8	920.9	875.8	847.0	822.4	818.3
8704.2	25°	6815.3	2736.0	1107.5	963.9	916.8	869.6	820.4	781.4	758.8	754.7
8620.1	27.5°	6415.3	2149.4	1005.0	916.8	861.4	818.3	763.0	726.0	705.5	701.4
8509.4	30°	5943.6	1655.1	945.5	863.4	795.8	758.8	709.6	678.9	666.6	666.6
8431.4	32.5°	5435.0	1322.9	920.9	810.1	738.3	697.3	658.4	646.0	641.9	639.9
8474.5	35°	4957.1	1148.5	908.6	767.1	687.1	648.1	631.7	633.7	641.9	641.9
8607.8	37.5°	4532.6	1093.2	902.4	736.3	641.9	607.1	617.3	635.8	627.6	627.6
8841.6	40°	4149.1	1099.3	898.3	713.7	605.0	584.5	605.0	590.7	570.2	568.1
9126.7	42.5°	3855.8	1150.6	890.1	695.3	582.5	568.1	559.9	537.3	535.3	539.4
9422.0	45°	3642.5	1195.7	888.1	687.1	557.9	531.2	520.9	498.4	539.4	549.7
9543.0	47.5°	3390.2	1195.7	888.1	658.4	516.8	506.6	490.2	465.6	506.6	516.8
9428.2	50°	3064.1	1119.8	853.2	625.5	484.0	477.9	449.2	418.4	410.2	416.3
9159.5	52.5°	2651.9	982.4	765.0	580.4	451.2	438.9	404.0	381.5	375.3	375.3
8677.5	55°	2182.2	822.4	646.0	514.8	416.3	393.8	369.2	358.9	352.8	348.7
8002.8	57.5°	1774.1	674.8	518.9	457.4	383.5	354.8	346.6	334.3	324.0	317.9
7438.8	60°	1456.2	531.2	428.6	406.1	350.7	324.0	322.0	305.6	278.9	274.8
6973.2	62.5°	1123.9	389.7	361.0	352.8	317.9	295.3	291.2	258.4	217.4	209.2
6312.8	65°	793.7	303.5	291.2	309.7	283.0	262.5	252.3	203.0	160.0	153.8
5283.2	67.5°	557.9	254.3	229.7	270.7	246.1	219.5	213.3	172.3	133.3	129.2
3995.2	70°	397.9	207.1	188.7	231.8	196.9	192.8	180.5	143.6	108.7	104.6
1977.1	72.5°	281.0	157.9	145.6	201.0	135.4	166.1	147.7	110.8	82.0	77.9
672.7	75°	207.1	112.8	102.5	116.9	98.4	125.1	104.6	73.8	51.3	49.2
303.5	77.5°	151.8	71.8	61.5	57.4	57.4	77.9	57.4	30.8	22.6	20.5
153.8	80°	106.6	32.8	28.7	24.6	22.6	18.5	8.2	4.1	2.1	2.1
53.3	82.5°	63.6	14.4	14.4	10.3	6.2	0.0	0.0	0.0	0.0	0.0
20.5	85°	14.4	6.2	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	2.1	2.1	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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