

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: P947793

Luminaire Tested: **GALN-SB3A-750-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947793  
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-SB3A-750-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

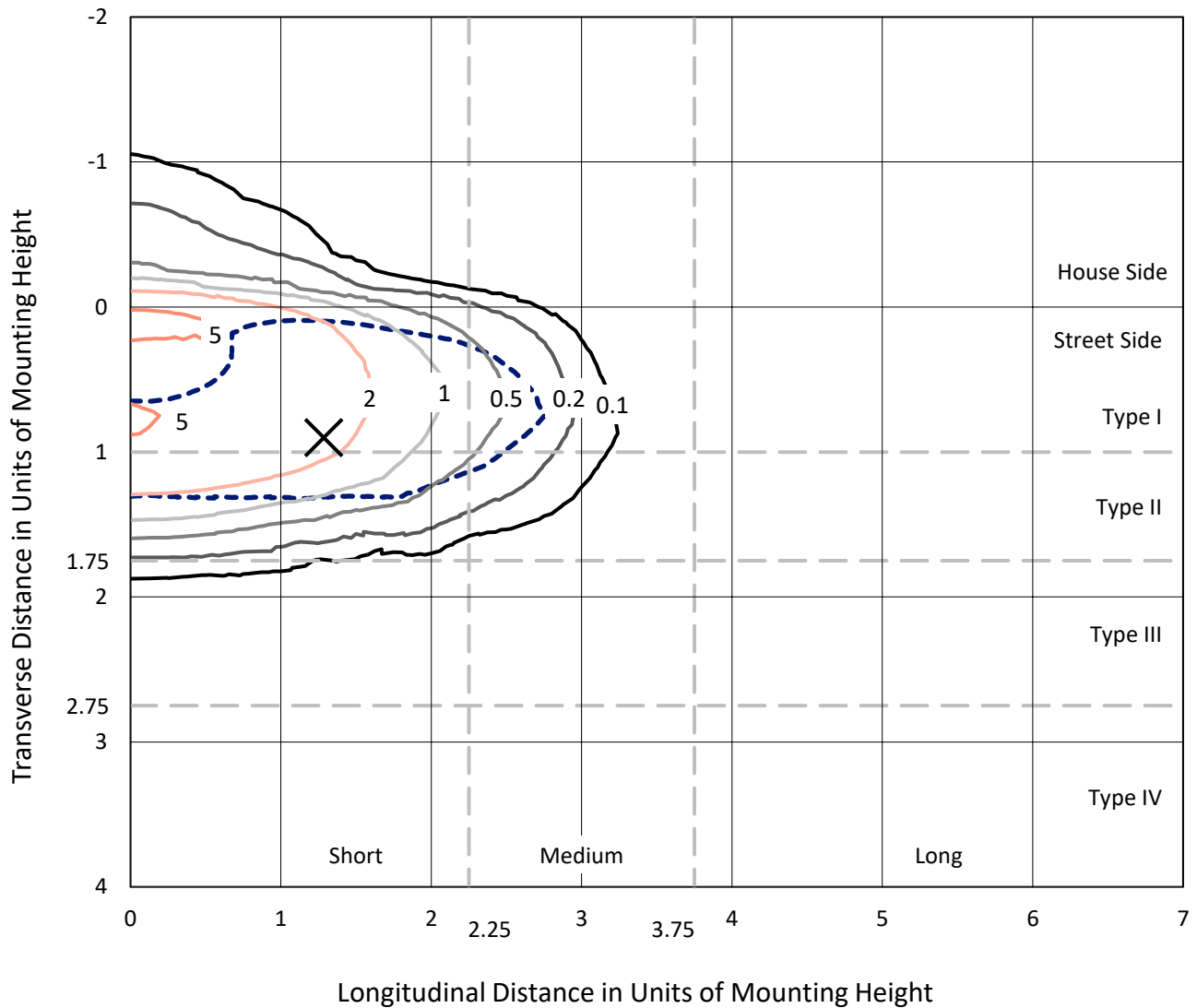
Lumens per Lamp: N/A  
Luminaire Lumens: 12141 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

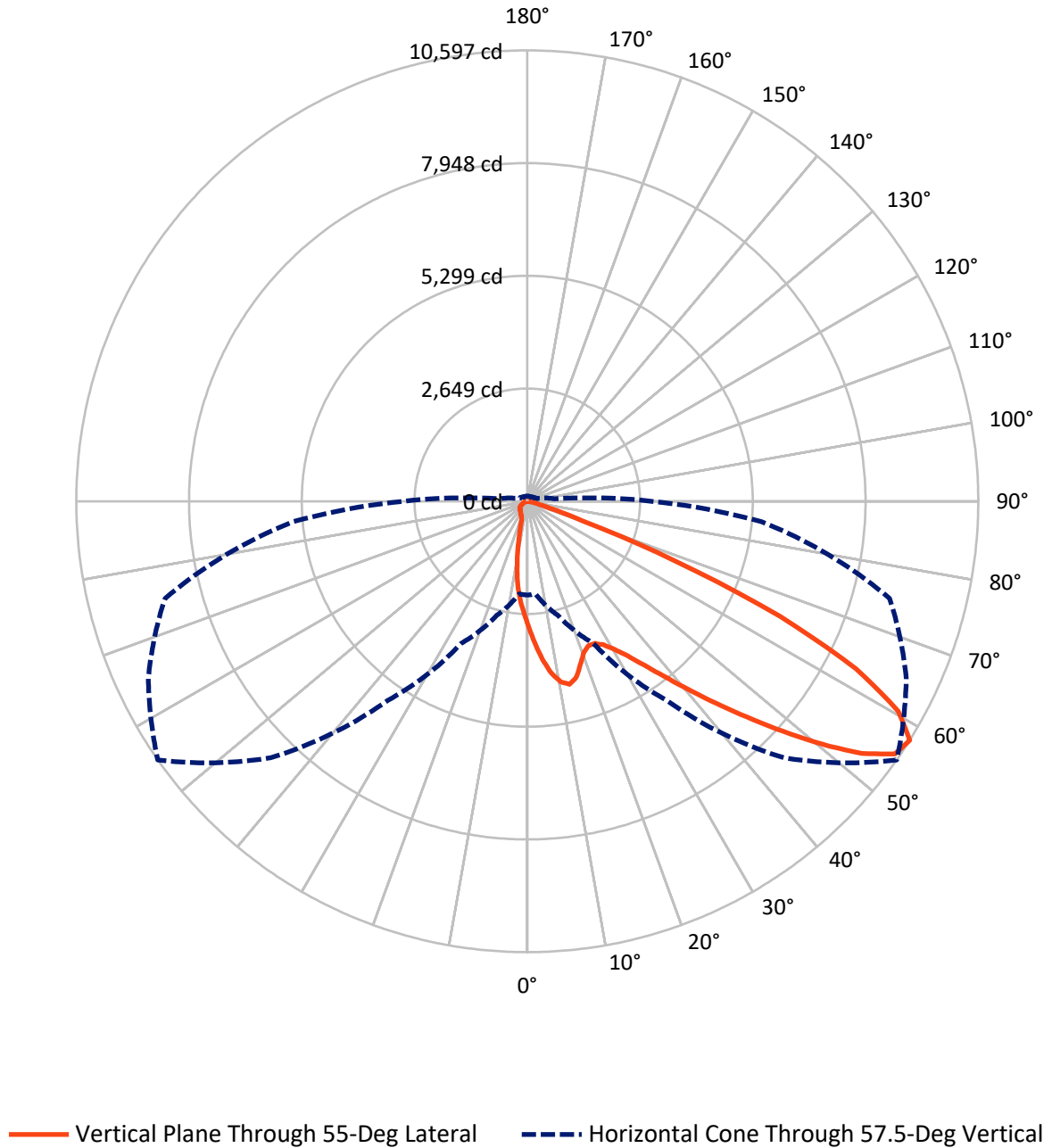
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	948.2	0.0	948.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	11192.8	0.0	11192.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	12141.0	0.0	12141.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.2	2.2
10°-20°	657.5	5.4
20°-30°	1052.1	8.7
30°-40°	1780.7	14.7
40°-50°	2923.5	24.1
50°-60°	3213.1	26.5
60°-70°	1843.1	15.2
70°-80°	376.6	3.1
80°-90°	22.2	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°	12141.0	100.0
0°-180°	12141.0	100.0

**Coefficient of Utilization**



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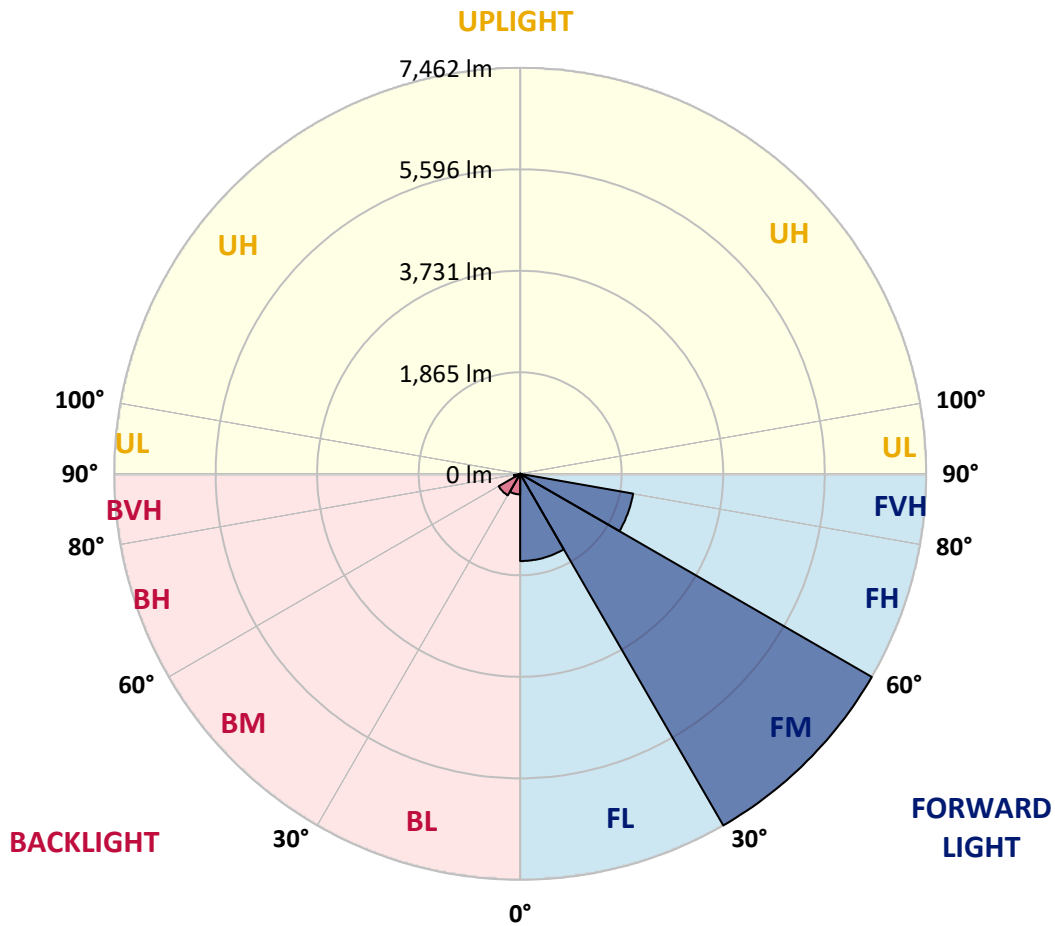
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.3	13.2			
FM (30°-60°)	7461.9	61.5			
FH (60°-80°)	2106.9	17.4			G2/5000
FVH (80°-90°)	20.7	0.2			G1/100
BL (0°-30°)	378.5	3.1	B1/500		
BM (30°-60°)	455.4	3.8	B1/1000		
BH (60°-80°)	112.8	0.9	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7
2.5°	3630.2	3584.5	3577.7	3568.8	3481.9	3416.8	3322.5	3219.1	3103.1	2984.8
5°	4193.9	4157.9	4151.2	4109.3	4010.5	3899.7	3732.0	3520.1	3303.7	3049.2
7.5°	4303.2	4296.4	4327.1	4325.6	4312.2	4224.6	4083.1	3830.8	3505.9	3128.6
10°	3815.8	3833.0	3924.4	4004.5	4220.8	4346.6	4315.9	4107.8	3714.0	3219.1
12.5°	3371.9	3351.7	3416.8	3507.4	3758.9	4133.2	4412.5	4339.1	3952.1	3321.7
15°	3093.4	3085.1	3121.8	3163.7	3355.4	3732.7	4300.2	4527.0	4181.1	3443.0
17.5°	3004.3	2997.6	3008.8	3019.3	3143.5	3435.5	4032.9	4642.3	4400.5	3581.5
20°	3076.9	3067.9	3066.4	3058.2	3109.8	3309.0	3791.1	4650.5	4597.4	3707.3
22.5°	3288.8	3278.3	3241.6	3208.7	3213.2	3326.2	3683.3	4568.2	4745.6	3824.8
25°	3672.8	3655.6	3579.2	3468.4	3398.1	3446.0	3699.8	4459.6	4887.1	3916.9
27.5°	4153.4	4131.0	4032.9	3868.2	3707.3	3648.9	3818.8	4384.8	5004.7	3987.3
30°	4624.3	4595.1	4498.6	4370.6	4135.5	3951.3	4033.7	4417.7	5144.6	4060.6
32.5°	5132.7	5105.0	4977.0	4818.2	4623.6	4375.8	4327.9	4578.7	5316.1	4163.2
35°	5775.8	5732.3	5550.4	5334.1	5127.4	4876.6	4726.2	4856.4	5544.4	4319.6
37.5°	6507.9	6449.5	6253.4	5954.7	5685.2	5404.4	5211.3	5238.2	5879.1	4529.3
40°	7198.2	7145.0	6963.8	6682.4	6344.0	6003.3	5797.5	5737.6	6341.0	4784.6
42.5°	7612.2	7564.2	7487.9	7368.9	7083.6	6736.3	6476.5	6347.0	6887.5	5090.0
45°	7635.4	7593.4	7696.0	7834.5	7778.4	7547.0	7230.4	6993.0	7436.2	5376.7
47.5°	7264.0	7235.6	7547.0	8030.7	8271.7	8369.0	8077.1	7585.2	7889.2	5582.6
50°	6251.9	6241.4	6882.2	7770.1	8459.6	9089.2	8970.2	8136.2	8240.3	5688.9
52.5°	5420.9	5382.7	5756.3	6936.1	8186.4	9468.0	9843.1	8676.7	8485.8	5709.1
55°	4111.5	4077.8	4546.5	5540.7	7305.2	9333.3	10481.7	9234.5	8661.8	5657.5
57.5°	2205.5	2184.5	2776.7	3687.8	5710.6	8524.8	10597.0	9824.4	8810.0	5520.5
60°	858.7	854.9	1076.5	1789.2	3470.7	6935.4	10015.3	10178.5	8902.8	5352.0
62.5°	519.6	530.8	566.7	803.3	1533.2	4308.4	8674.5	9775.7	8965.0	5197.8
65°	429.7	430.5	435.0	551.7	734.4	1802.7	6530.4	8450.6	8811.5	4923.1
67.5°	368.3	375.1	392.3	438.0	518.1	790.6	3759.7	6546.1	7877.9	4283.7
70°	290.5	299.5	321.2	360.1	399.8	494.9	1389.5	4355.6	6018.3	3228.9
72.5°	244.8	244.1	255.3	292.7	317.4	348.1	534.5	2440.6	3497.6	1541.4
75°	189.4	196.9	211.1	244.8	259.8	252.3	289.7	891.6	1253.2	467.2
77.5°	148.2	154.2	166.9	199.9	214.9	178.9	166.9	318.9	402.8	167.7
80°	66.6	71.9	113.8	147.5	175.2	123.5	90.6	163.2	178.9	76.4
82.5°	12.0	20.2	66.6	77.9	89.8	80.1	47.2	84.6	87.6	30.7
85°	0.7	1.5	23.2	28.4	35.9	26.2	14.2	33.7	29.2	10.5
87.5°	0.0	0.0	0.0	0.7	0.7	3.7	4.5	6.0	4.5	3.7
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°
2925.7	0°	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7	2925.7
2932.4	2.5°	2878.5	2772.2	2668.9	2584.3	2534.9	2451.0	2395.6	2386.7	2363.5	2383.7
2939.9	5°	2823.1	2633.0	2440.6	2268.4	2126.9	1944.2	1808.0	1750.3	1700.2	1717.4
2959.4	7.5°	2796.9	2496.7	2197.3	1903.0	1600.6	1308.6	1091.5	1000.9	932.1	941.8
2981.1	10°	2761.7	2355.2	1885.8	1436.6	1031.6	743.4	593.7	538.3	507.6	508.3
3013.3	12.5°	2734.8	2186.0	1524.2	974.0	628.1	474.6	428.2	414.7	405.8	406.5
3061.9	15°	2721.3	1986.9	1167.1	649.1	449.2	402.0	390.8	384.8	378.8	378.1
3115.8	17.5°	2698.8	1765.3	854.2	473.9	393.0	376.6	366.8	360.1	352.6	351.1
3162.3	20°	2665.2	1513.7	624.4	400.5	368.3	355.6	342.1	333.1	324.2	322.7
3191.4	22.5°	2603.0	1248.0	479.9	370.6	350.4	336.1	319.7	309.2	300.2	298.7
3177.2	25°	2487.7	998.7	404.3	351.9	334.6	317.4	299.5	285.2	277.0	275.5
3146.5	27.5°	2341.7	784.6	366.8	334.6	314.4	298.7	278.5	265.0	257.5	256.0
3106.1	30°	2169.6	604.2	345.1	315.2	290.5	277.0	259.0	247.8	243.3	243.3
3077.7	32.5°	1983.9	482.9	336.1	295.7	269.5	254.5	240.3	235.8	234.3	233.6
3093.4	35°	1809.5	419.2	331.6	280.0	250.8	236.6	230.6	231.3	234.3	234.3
3142.0	37.5°	1654.5	399.0	329.4	268.8	234.3	221.6	225.3	232.1	229.1	229.1
3227.4	40°	1514.5	401.3	327.9	260.5	220.8	213.4	220.8	215.6	208.1	207.4
3331.4	42.5°	1407.4	420.0	324.9	253.8	212.6	207.4	204.4	196.1	195.4	196.9
3439.2	45°	1329.6	436.5	324.2	250.8	203.6	193.9	190.2	181.9	196.9	200.6
3483.4	47.5°	1237.5	436.5	324.2	240.3	188.7	184.9	178.9	169.9	184.9	188.7
3441.5	50°	1118.5	408.8	311.4	228.3	176.7	174.4	164.0	152.7	149.7	152.0
3343.4	52.5°	968.0	358.6	279.2	211.9	164.7	160.2	147.5	139.2	137.0	137.0
3167.5	55°	796.6	300.2	235.8	187.9	152.0	143.7	134.8	131.0	128.8	127.3
2921.2	57.5°	647.6	246.3	189.4	166.9	140.0	129.5	126.5	122.0	118.3	116.0
2715.3	60°	531.5	193.9	156.5	148.2	128.0	118.3	117.5	111.5	101.8	100.3
2545.4	62.5°	410.3	142.2	131.8	128.8	116.0	107.8	106.3	94.3	79.4	76.4
2304.3	65°	289.7	110.8	106.3	113.0	103.3	95.8	92.1	74.1	58.4	56.1
1928.5	67.5°	203.6	92.8	83.8	98.8	89.8	80.1	77.9	62.9	48.7	47.2
1458.3	70°	145.2	75.6	68.9	84.6	71.9	70.4	65.9	52.4	39.7	38.2
721.7	72.5°	102.6	57.6	53.2	73.4	49.4	60.6	53.9	40.4	29.9	28.4
245.6	75°	75.6	41.2	37.4	42.7	35.9	45.7	38.2	27.0	18.7	18.0
110.8	77.5°	55.4	26.2	22.5	21.0	21.0	28.4	21.0	11.2	8.2	7.5
56.1	80°	38.9	12.0	10.5	9.0	8.2	6.7	3.0	1.5	0.7	0.7
19.5	82.5°	23.2	5.2	5.2	3.7	2.2	0.0	0.0	0.0	0.0	0.0
7.5	85°	5.2	2.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
3.0	87.5°	0.7	0.7	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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