

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: P948192

Luminaire Tested: **GALN-SB3B-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948192  
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-SB3B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

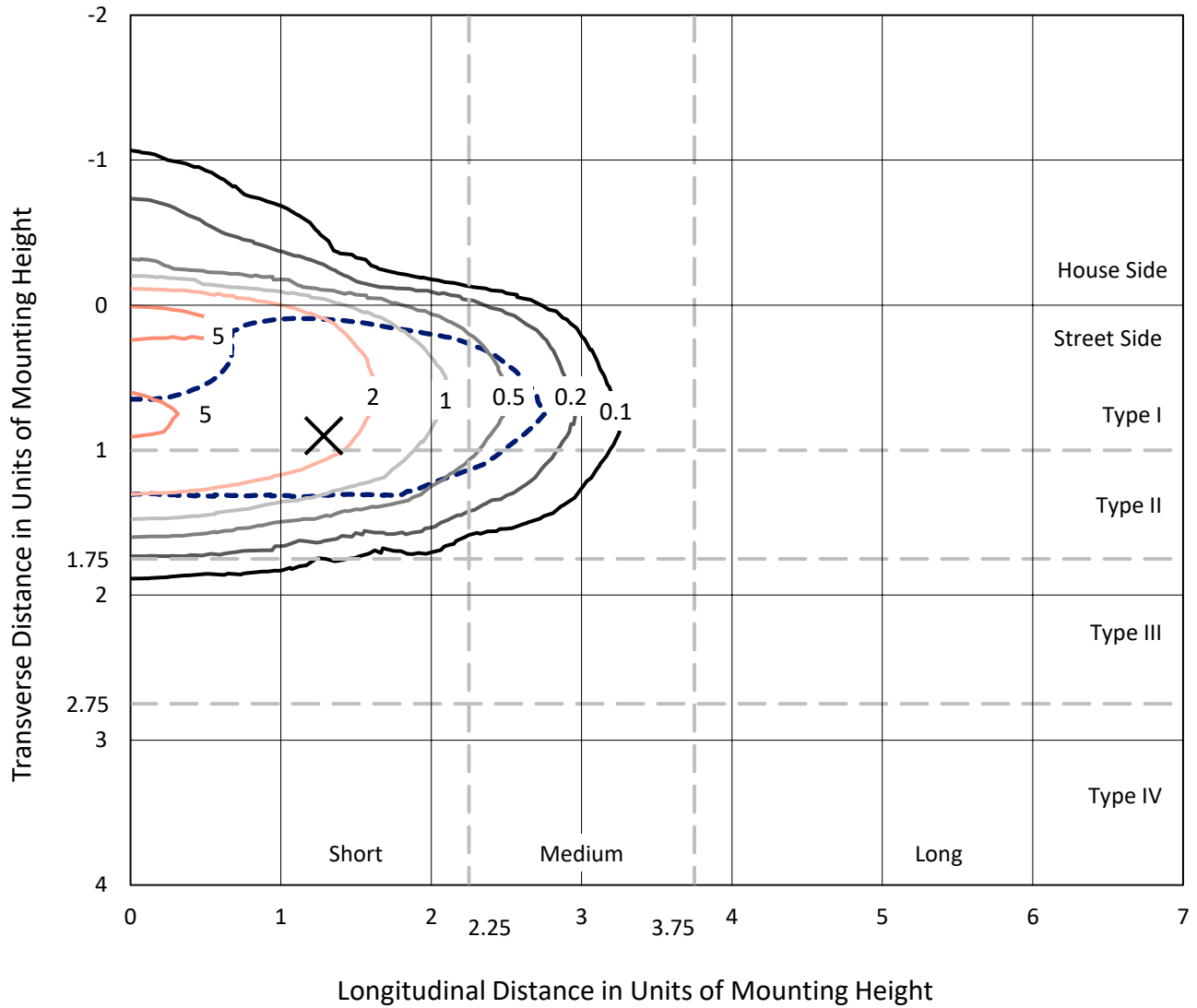
Lumens per Lamp: N/A  
Luminaire Lumens: 12526 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

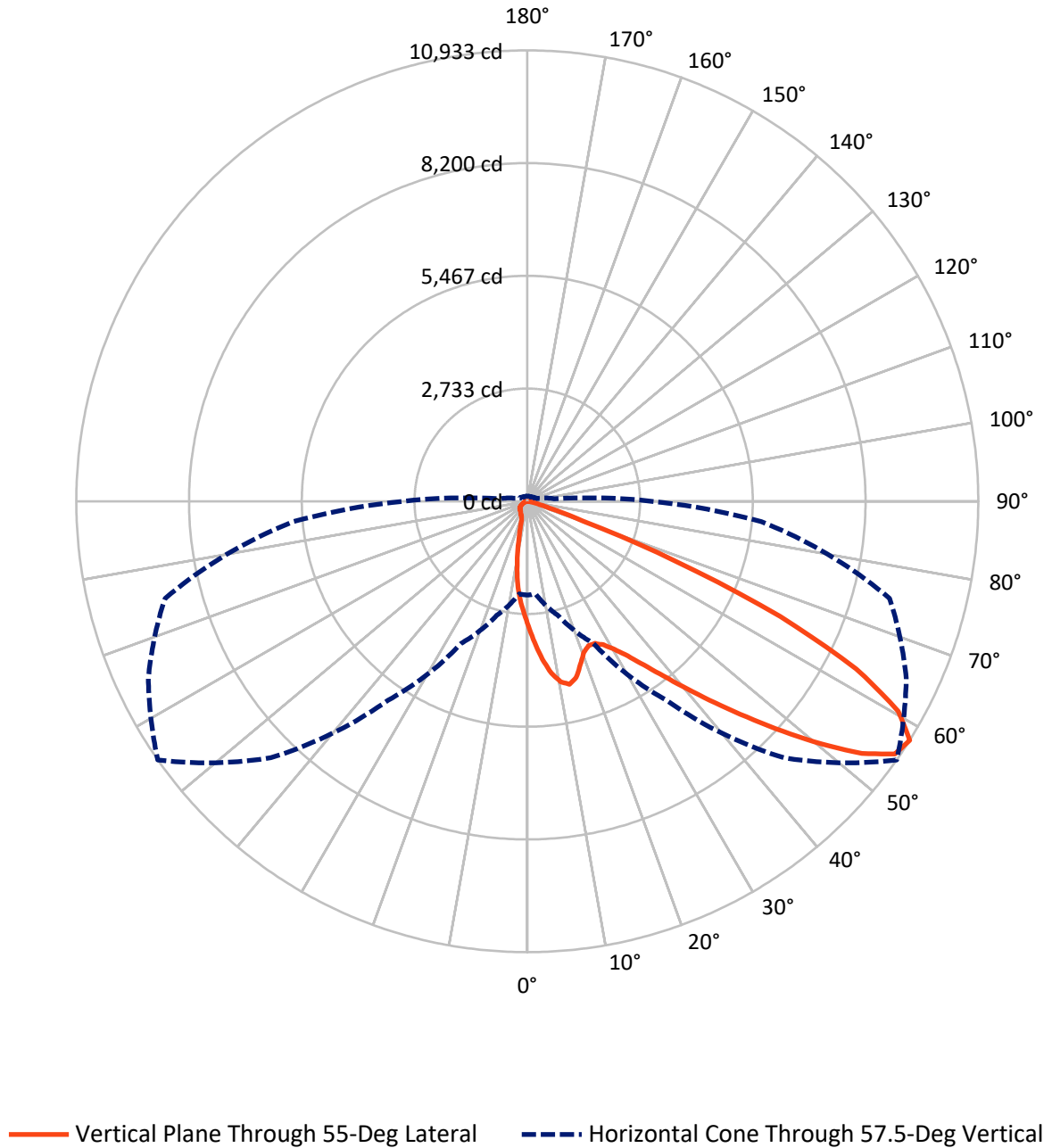
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	978.2	0.0	978.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	11547.8	0.0	11547.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	12526.0	0.0	12526.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.8	2.2
10°-20°	678.4	5.4
20°-30°	1085.4	8.7
30°-40°	1837.1	14.7
40°-50°	3016.2	24.1
50°-60°	3315.0	26.5
60°-70°	1901.5	15.2
70°-80°	388.5	3.1
80°-90°	22.9	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°	12526.0	100.0
0°-180°	12526.0	100.0

**Coefficient of Utilization**



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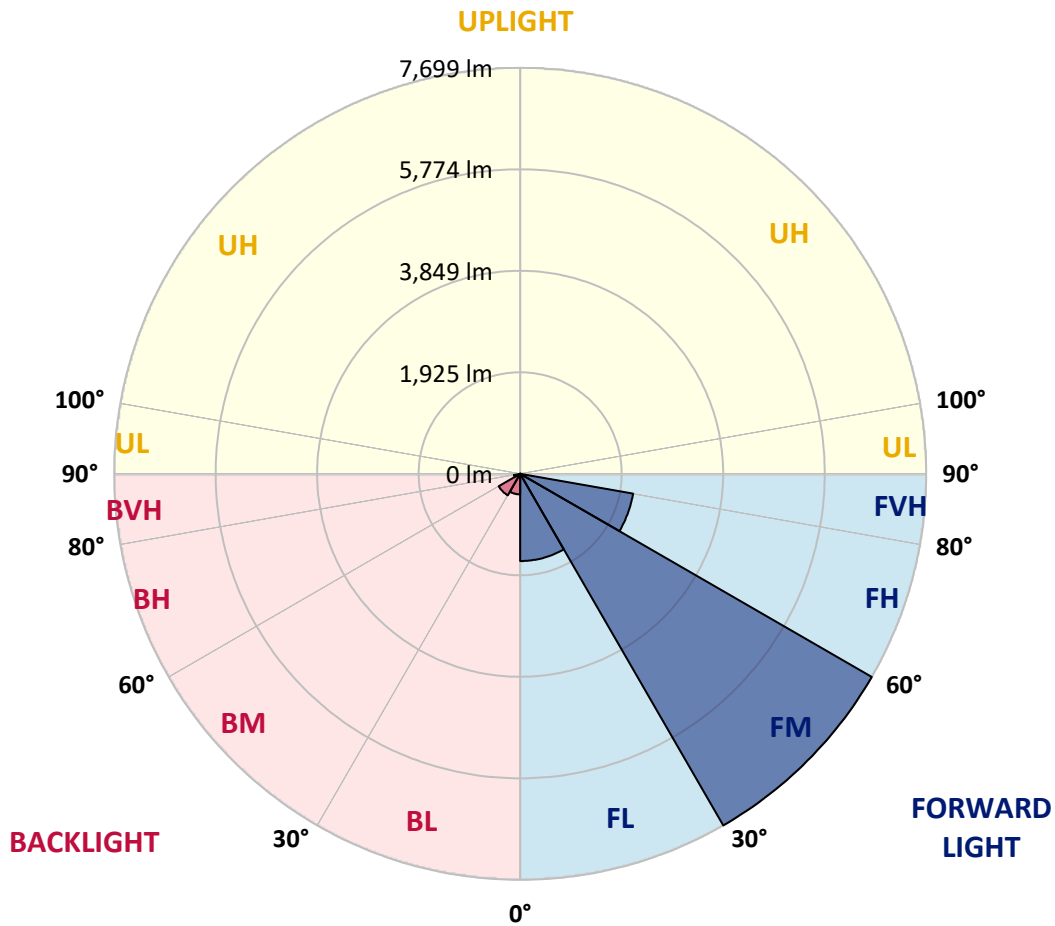
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.1	13.2			
FM (30°-60°)	7698.6	61.5			
FH (60°-80°)	2173.7	17.4			G2/5000
FVH (80°-90°)	21.4	0.2			G1/100
BL (0°-30°)	390.5	3.1	B1/500		
BM (30°-60°)	469.8	3.8	B1/1000		
BH (60°-80°)	116.3	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°	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	3745.3	3698.2	3691.2	3681.9	3592.3	3525.1	3427.8	3321.2	3201.5	3079.5
5°	4326.9	4289.8	4282.8	4239.6	4137.6	4023.3	3850.3	3631.7	3408.5	3145.9
7.5°	4439.6	4432.7	4464.4	4462.8	4448.9	4358.5	4212.6	3952.3	3617.1	3227.8
10°	3936.8	3954.6	4048.8	4131.5	4354.7	4484.4	4452.8	4238.0	3831.8	3321.2
12.5°	3478.8	3457.9	3525.1	3618.6	3878.1	4264.3	4552.4	4476.7	4077.4	3427.0
15°	3191.5	3183.0	3220.8	3264.1	3461.8	3851.1	4436.5	4670.6	4313.7	3552.2
17.5°	3099.6	3092.6	3104.2	3115.0	3243.2	3544.4	4160.8	4789.5	4540.0	3695.1
20°	3174.5	3165.2	3163.7	3155.2	3208.5	3413.9	3911.3	4798.0	4743.2	3824.8
22.5°	3393.1	3382.2	3344.4	3310.4	3315.1	3431.7	3800.1	4713.1	4896.1	3946.1
25°	3789.3	3771.5	3692.7	3578.4	3505.8	3555.3	3817.1	4601.1	5042.1	4041.1
27.5°	4285.2	4262.0	4160.8	3990.9	3824.8	3764.6	3939.9	4523.8	5163.4	4113.7
30°	4771.0	4740.9	4641.2	4509.1	4266.6	4076.6	4161.6	4557.8	5307.8	4189.4
32.5°	5295.4	5266.9	5134.8	4971.0	4770.2	4514.6	4465.1	4723.9	5484.7	4295.2
35°	5958.9	5914.1	5726.4	5503.2	5290.0	5031.3	4876.0	5010.4	5720.2	4456.6
37.5°	6714.3	6654.0	6451.7	6143.5	5865.4	5575.8	5376.5	5404.3	6065.5	4672.9
40°	7426.4	7371.6	7184.7	6894.3	6545.1	6193.7	5981.3	5919.5	6542.1	4936.3
42.5°	7853.6	7804.1	7725.3	7602.5	7308.3	6949.9	6681.9	6548.2	7105.9	5251.4
45°	7877.5	7834.2	7940.1	8082.9	8025.0	7786.4	7459.6	7214.8	7672.0	5547.2
47.5°	7494.4	7465.0	7786.4	8285.3	8534.0	8634.4	8333.2	7825.7	8139.3	5759.6
50°	6450.1	6439.3	7100.5	8016.5	8727.9	9377.5	9254.6	8394.2	8501.6	5869.3
52.5°	5592.8	5553.4	5938.8	7156.1	8446.0	9768.3	10155.2	8951.9	8754.9	5890.2
55°	4241.9	4207.1	4690.7	5716.4	7536.9	9629.2	10814.1	9527.3	8936.4	5836.9
57.5°	2275.4	2253.8	2864.8	3804.7	5891.7	8795.1	10933.0	10135.9	9089.4	5695.5
60°	885.9	882.1	1110.7	1846.0	3580.7	7155.3	10332.9	10501.3	9185.1	5521.7
62.5°	536.0	547.6	584.7	828.8	1581.8	4445.0	8949.6	10085.7	9249.2	5362.6
65°	443.3	444.1	448.8	569.2	757.7	1859.9	6737.5	8718.6	9090.9	5079.2
67.5°	380.0	387.0	404.7	451.8	534.5	815.6	3878.9	6753.7	8127.7	4419.6
70°	299.7	309.0	331.4	371.5	412.5	510.5	1433.5	4493.7	6209.2	3331.3
72.5°	252.6	251.8	263.4	302.0	327.5	359.2	551.5	2518.0	3608.6	1590.3
75°	195.4	203.1	217.8	252.6	268.0	260.3	298.9	919.9	1293.0	482.0
77.5°	152.9	159.1	172.2	206.2	221.7	184.6	172.2	329.0	415.5	173.0
80°	68.7	74.1	117.4	152.2	180.7	127.4	93.5	168.4	184.6	78.8
82.5°	12.4	20.9	68.7	80.3	92.7	82.6	48.7	87.3	90.4	31.7
85°	0.8	1.5	23.9	29.4	37.1	27.0	14.7	34.8	30.1	10.8
87.5°	0.0	0.0	0.0	0.8	0.8	3.9	4.6	6.2	4.6	3.9
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°
3018.5	0°	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5	3018.5
3025.4	2.5°	2969.8	2860.1	2753.5	2666.3	2615.3	2528.8	2471.6	2462.3	2438.4	2459.3
3033.1	5°	2912.6	2716.5	2518.0	2340.3	2194.3	2005.9	1865.3	1805.8	1754.1	1771.8
3053.2	7.5°	2885.6	2575.9	2266.9	1963.4	1651.3	1350.1	1126.1	1032.7	961.6	971.7
3075.6	10°	2849.3	2429.9	1945.6	1482.2	1064.3	767.0	612.5	555.3	523.7	524.4
3108.8	12.5°	2821.5	2255.3	1572.6	1004.9	648.0	489.7	441.8	427.9	418.6	419.4
3159.0	15°	2807.6	2049.9	1204.1	669.7	463.4	414.8	403.2	397.0	390.8	390.1
3214.6	17.5°	2784.4	1821.3	881.3	488.9	405.5	388.5	378.5	371.5	363.8	362.2
3262.5	20°	2749.7	1561.8	644.2	413.2	380.0	366.9	353.0	343.7	334.4	332.9
3292.7	22.5°	2685.6	1287.6	495.1	382.3	361.5	346.8	329.8	319.0	309.7	308.2
3278.0	25°	2566.6	1030.4	417.1	363.0	345.3	327.5	309.0	294.3	285.8	284.2
3246.3	27.5°	2416.0	809.5	378.5	345.3	324.4	308.2	287.3	273.4	265.7	264.2
3204.6	30°	2238.4	623.3	356.1	325.2	299.7	285.8	267.2	255.7	251.0	251.0
3175.3	32.5°	2046.8	498.2	346.8	305.1	278.1	262.6	247.9	243.3	241.8	241.0
3191.5	35°	1866.8	432.5	342.2	288.9	258.7	244.1	237.9	238.7	241.8	241.8
3241.7	37.5°	1707.0	411.7	339.8	277.3	241.8	228.6	232.5	239.4	236.3	236.3
3329.7	40°	1562.5	414.0	338.3	268.8	227.9	220.1	227.9	222.4	214.7	213.9
3437.1	42.5°	1452.1	433.3	335.2	261.8	219.4	213.9	210.9	202.4	201.6	203.1
3548.3	45°	1371.7	450.3	334.4	258.7	210.1	200.0	196.2	187.7	203.1	207.0
3593.9	47.5°	1276.7	450.3	334.4	247.9	194.6	190.8	184.6	175.3	190.8	194.6
3550.6	50°	1153.9	421.7	321.3	235.6	182.3	180.0	169.2	157.6	154.5	156.8
3449.4	52.5°	998.7	370.0	288.1	218.6	169.9	165.3	152.2	143.7	141.3	141.3
3267.9	55°	821.8	309.7	243.3	193.9	156.8	148.3	139.0	135.2	132.8	131.3
3013.8	57.5°	668.1	254.1	195.4	172.2	144.4	133.6	130.5	125.9	122.0	119.7
2801.4	60°	548.4	200.0	161.4	152.9	132.1	122.0	121.3	115.1	105.0	103.5
2626.1	62.5°	423.3	146.8	135.9	132.8	119.7	111.2	109.7	97.3	81.9	78.8
2377.4	65°	298.9	114.3	109.7	116.6	106.6	98.9	95.0	76.5	60.2	57.9
1989.6	67.5°	210.1	95.8	86.5	102.0	92.7	82.6	80.3	64.9	50.2	48.7
1504.6	70°	149.8	78.0	71.1	87.3	74.1	72.6	68.0	54.1	40.9	39.4
744.6	72.5°	105.8	59.5	54.8	75.7	51.0	62.6	55.6	41.7	30.9	29.4
253.3	75°	78.0	42.5	38.6	44.0	37.1	47.1	39.4	27.8	19.3	18.5
114.3	77.5°	57.2	27.0	23.2	21.6	21.6	29.4	21.6	11.6	8.5	7.7
57.9	80°	40.2	12.4	10.8	9.3	8.5	7.0	3.1	1.5	0.8	0.8
20.1	82.5°	23.9	5.4	5.4	3.9	2.3	0.0	0.0	0.0	0.0	0.0
7.7	85°	5.4	2.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.1	87.5°	0.8	0.8	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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