

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: P955080

Luminaire Tested: **GALN-SB8A-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955080  
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-SB8A-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

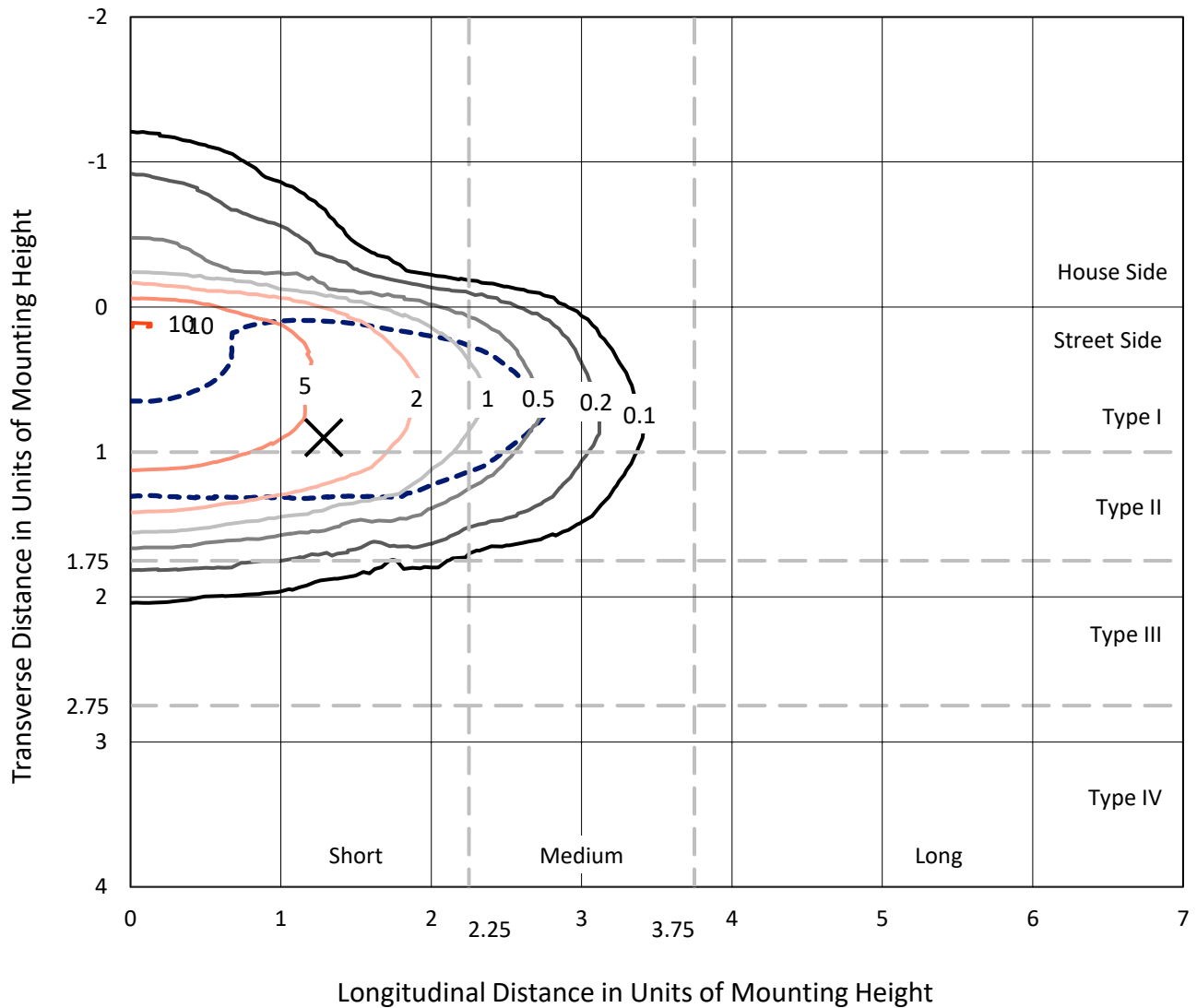
Lumens per Lamp: N/A  
Luminaire Lumens: 18825 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

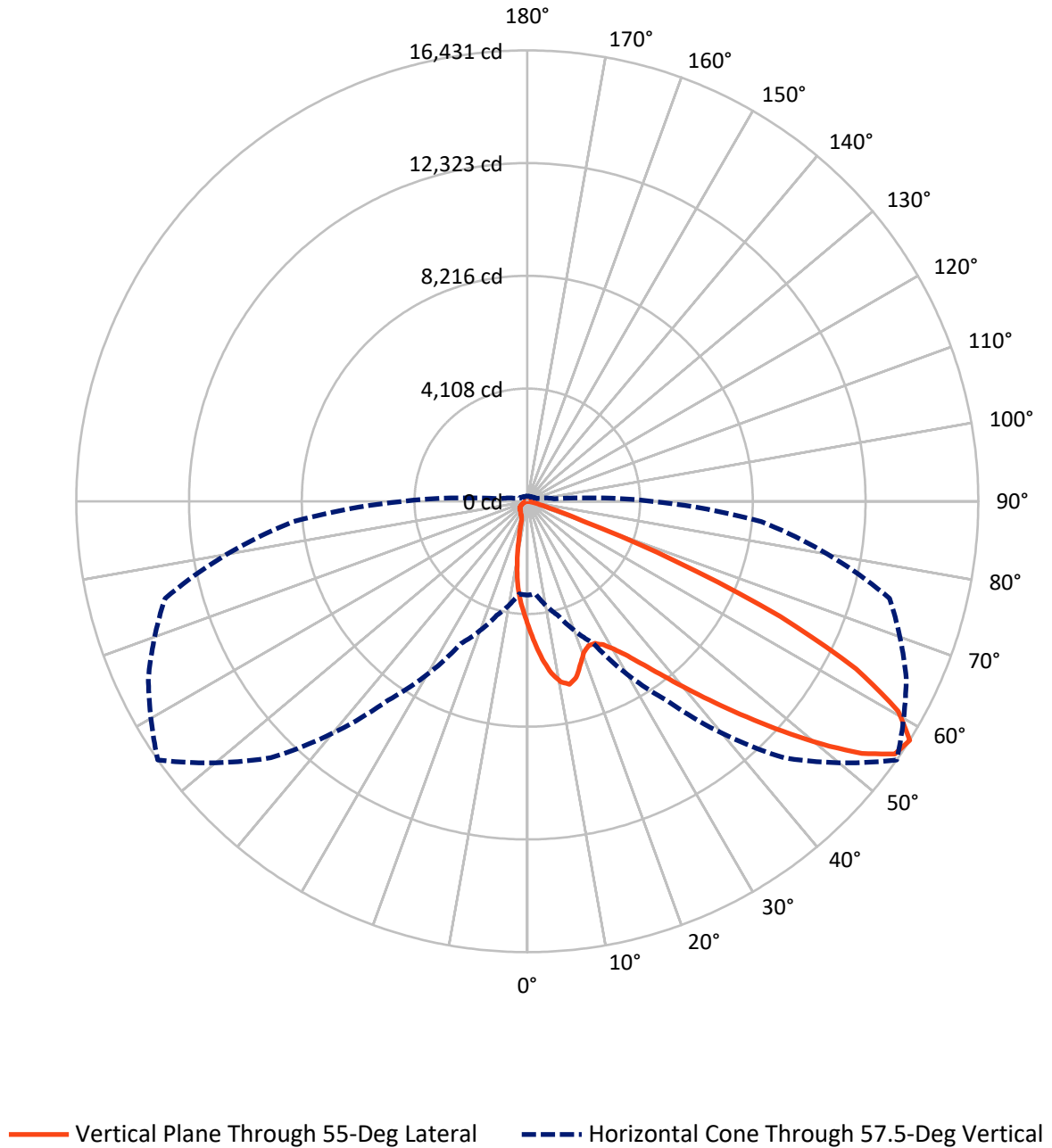
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	1470.1	0.0	1470.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	17354.8	0.0	17354.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	18825.0	0.0	18825.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.1	2.2
10°-20°	1019.5	5.4
20°-30°	1631.3	8.7
30°-40°	2761.0	14.7
40°-50°	4533.0	24.1
50°-60°	4982.1	26.5
60°-70°	2857.7	15.2
70°-80°	583.9	3.1
80°-90°	34.4	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°	18825.0	100.0
0°-180°	18825.0	100.0

**Coefficient of Utilization**



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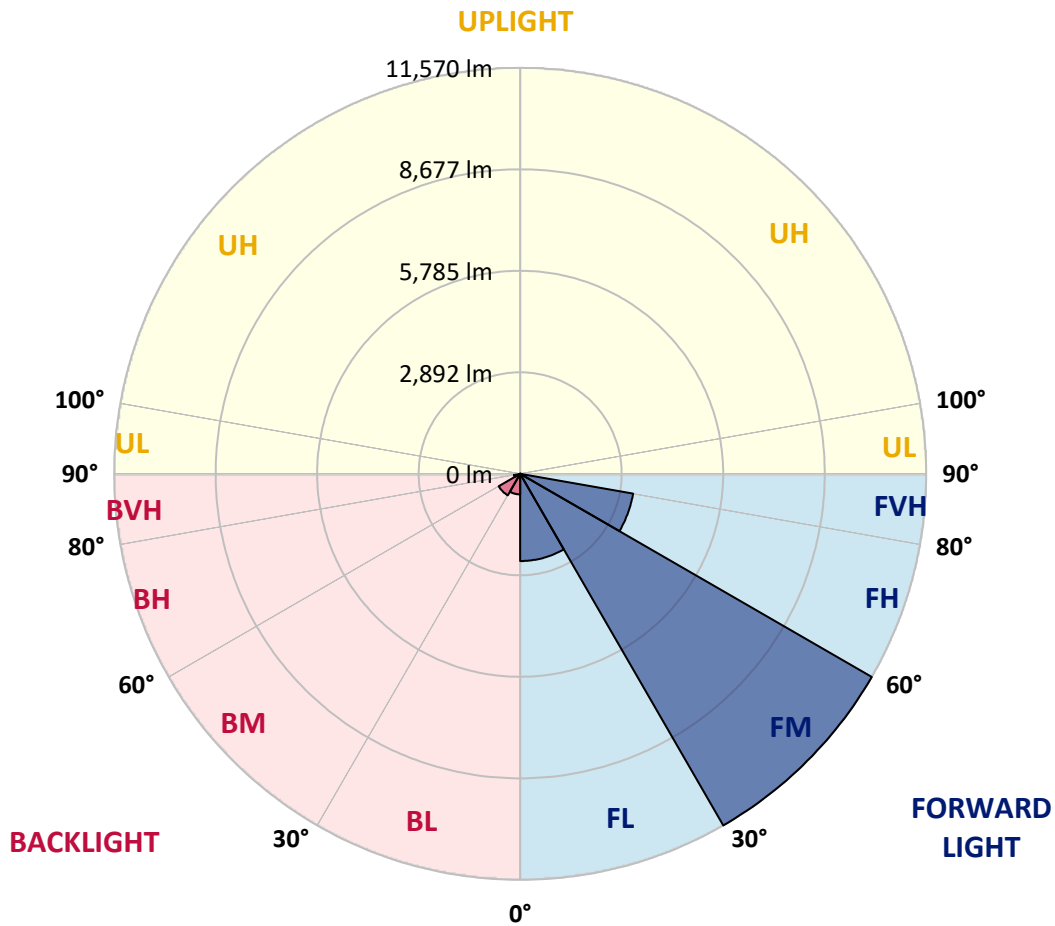
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.0	13.2			
FM (30°-60°)	11570.0	61.5			
FH (60°-80°)	3266.8	17.4			G2/5000
FVH (80°-90°)	32.1	0.2			G1/100
BL (0°-30°)	586.9	3.1	B2/1000		
BM (30°-60°)	706.1	3.8	B1/1000		
BH (60°-80°)	174.8	0.9	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4
2.5°	5628.7	5557.9	5547.4	5533.5	5398.8	5297.8	5151.6	4991.4	4811.5	4628.1
5°	6502.7	6447.0	6436.6	6371.6	6218.3	6046.5	5786.5	5458.0	5122.6	4727.9
7.5°	6672.2	6661.8	6709.4	6707.0	6686.1	6550.3	6330.9	5939.8	5436.0	4850.9
10°	5916.5	5943.2	6084.9	6209.1	6544.5	6739.5	6691.9	6369.2	5758.7	4991.4
12.5°	5228.2	5196.8	5297.8	5438.3	5828.3	6408.7	6841.7	6727.9	6127.8	5150.4
15°	4796.4	4783.6	4840.5	4905.5	5202.7	5787.7	6667.6	7019.3	6483.0	5338.5
17.5°	4658.2	4647.8	4665.2	4681.5	4874.2	5326.9	6253.2	7198.0	6823.1	5553.2
20°	4770.8	4756.9	4754.6	4741.8	4821.9	5130.7	5878.2	7210.8	7128.4	5748.2
22.5°	5099.3	5083.1	5026.2	4975.1	4982.1	5157.4	5711.1	7083.1	7358.2	5930.5
25°	5694.8	5668.1	5549.7	5377.9	5268.8	5343.1	5736.6	6914.8	7577.6	6073.2
27.5°	6440.1	6405.2	6253.2	5997.8	5748.2	5657.7	5921.2	6798.7	7759.9	6182.4
30°	7170.2	7124.9	6975.2	6776.7	6412.2	6126.6	6254.3	6849.8	7976.9	6296.1
32.5°	7958.4	7915.4	7716.9	7470.8	7169.0	6784.8	6710.5	7099.4	8242.8	6455.1
35°	8955.5	8888.2	8606.1	8270.6	7950.2	7561.4	7328.1	7530.0	8596.8	6697.7
37.5°	10090.7	10000.2	9696.1	9232.9	8815.0	8379.7	8080.2	8122.0	9115.7	7022.8
40°	11161.0	11078.6	10797.7	10361.2	9836.5	9308.4	8989.1	8896.3	9831.9	7418.6
42.5°	11802.9	11728.6	11610.2	11425.6	10983.4	10444.8	10042.0	9841.2	10679.3	7892.2
45°	11838.9	11773.9	11932.9	12147.7	12060.6	11701.9	11210.9	10842.9	11530.1	8336.8
47.5°	11263.1	11219.0	11701.9	12451.8	12825.6	12976.5	12523.7	11761.1	12232.4	8656.0
50°	9693.7	9677.5	10671.1	12047.8	13116.9	14093.1	13908.6	12615.4	12776.8	8820.8
52.5°	8405.3	8346.1	8925.3	10754.7	12693.2	14680.5	15262.0	13453.5	13157.5	8852.2
55°	6375.0	6322.8	7049.5	8591.0	11327.0	14471.5	16252.2	14318.3	13430.3	8772.1
57.5°	3419.7	3387.2	4305.4	5718.0	8854.5	13217.9	16431.0	15233.0	13660.2	8559.7
60°	1331.4	1325.6	1669.2	2774.3	5381.4	10753.5	15529.0	15782.1	13804.1	8298.5
62.5°	805.6	823.0	878.7	1245.5	2377.3	6680.3	13450.1	15157.6	13900.4	8059.4
65°	666.3	667.5	674.4	855.5	1138.7	2795.2	10125.6	13103.0	13662.5	7633.3
67.5°	571.1	581.6	608.3	679.1	803.3	1225.8	5829.5	10149.9	12215.0	6642.0
70°	450.4	464.3	498.0	558.3	619.9	767.3	2154.4	6753.5	9331.6	5006.5
72.5°	379.6	378.4	395.8	453.9	492.2	539.8	828.8	3784.2	5423.2	2390.1
75°	293.7	305.3	327.3	379.6	402.8	391.2	449.2	1382.5	1943.2	724.3
77.5°	229.8	239.1	258.9	309.9	333.1	277.4	258.9	494.5	624.5	260.0
80°	103.3	111.4	176.4	228.7	271.6	191.5	140.5	253.1	277.4	118.4
82.5°	18.6	31.3	103.3	120.7	139.3	124.2	73.1	131.2	135.8	47.6
85°	1.2	2.3	36.0	44.1	55.7	40.6	22.1	52.2	45.3	16.3
87.5°	0.0	0.0	0.0	1.2	1.2	5.8	7.0	9.3	7.0	5.8
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°
4536.4	0°	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4	4536.4
4546.8	2.5°	4463.2	4298.4	4138.2	4007.0	3930.4	3800.4	3714.5	3700.6	3664.6	3696.0
4558.4	5°	4377.3	4082.5	3784.2	3517.2	3297.8	3014.6	2803.3	2713.9	2636.2	2662.8
4588.6	7.5°	4336.7	3871.2	3406.9	2950.7	2481.8	2029.1	1692.4	1552.0	1445.2	1460.3
4622.3	10°	4282.1	3651.8	2924.0	2227.6	1599.6	1152.7	920.5	834.6	787.0	788.2
4672.2	12.5°	4240.4	3389.5	2363.4	1510.2	973.9	735.9	664.0	643.1	629.1	630.3
4747.6	15°	4219.5	3080.7	1809.7	1006.4	696.5	623.3	605.9	596.6	587.4	586.2
4831.2	17.5°	4184.6	2737.1	1324.5	734.8	609.4	583.9	568.8	558.3	546.7	544.4
4903.2	20°	4132.4	2347.1	968.1	621.0	571.1	551.4	530.5	516.6	502.6	500.3
4948.4	22.5°	4036.1	1935.0	744.1	574.6	543.2	521.2	495.7	479.4	465.5	463.2
4926.4	25°	3857.3	1548.5	626.8	545.6	518.9	492.2	464.3	442.3	429.5	427.2
4878.8	27.5°	3630.9	1216.5	568.8	518.9	487.5	463.2	431.8	410.9	399.3	397.0
4816.1	30°	3364.0	936.8	535.1	488.7	450.4	429.5	401.6	384.2	377.3	377.3
4772.0	32.5°	3076.1	748.7	521.2	458.5	417.9	394.7	372.6	365.6	363.3	362.2
4796.4	35°	2805.6	650.0	514.2	434.1	388.9	366.8	357.5	358.7	363.3	363.3
4871.8	37.5°	2565.3	618.7	510.7	416.7	363.3	343.6	349.4	359.8	355.2	355.2
5004.2	40°	2348.3	622.2	508.4	404.0	342.4	330.8	342.4	334.3	322.7	321.5
5165.5	42.5°	2182.3	651.2	503.8	393.5	329.7	321.5	316.9	304.1	303.0	305.3
5332.7	45°	2061.6	676.7	502.6	388.9	315.7	300.6	294.8	282.1	305.3	311.1
5401.1	47.5°	1918.8	676.7	502.6	372.6	292.5	286.7	277.4	263.5	286.7	292.5
5336.1	50°	1734.2	633.8	482.9	354.0	273.9	270.5	254.2	236.8	232.2	235.6
5184.1	52.5°	1500.9	556.0	433.0	328.5	255.4	248.4	228.7	215.9	212.4	212.4
4911.3	55°	1235.1	465.5	365.6	291.4	235.6	222.9	208.9	203.1	199.7	197.3
4529.4	57.5°	1004.1	381.9	293.7	258.9	217.1	200.8	196.2	189.2	183.4	179.9
4210.2	60°	824.2	300.6	242.6	229.8	198.5	183.4	182.2	173.0	157.9	155.5
3946.7	62.5°	636.1	220.5	204.3	199.7	179.9	167.2	164.8	146.3	123.0	118.4
3572.9	65°	449.2	171.8	164.8	175.3	160.2	148.6	142.8	114.9	90.5	87.1
2990.2	67.5°	315.7	143.9	130.0	153.2	139.3	124.2	120.7	97.5	75.5	73.1
2261.2	70°	225.2	117.2	106.8	131.2	111.4	109.1	102.1	81.3	61.5	59.2
1119.0	72.5°	159.0	89.4	82.4	113.8	76.6	94.0	83.6	62.7	46.4	44.1
380.7	75°	117.2	63.8	58.0	66.2	55.7	70.8	59.2	41.8	29.0	27.9
171.8	77.5°	85.9	40.6	34.8	32.5	32.5	44.1	32.5	17.4	12.8	11.6
87.1	80°	60.4	18.6	16.3	13.9	12.8	10.4	4.6	2.3	1.2	1.2
30.2	82.5°	36.0	8.1	8.1	5.8	3.5	0.0	0.0	0.0	0.0	0.0
11.6	85°	8.1	3.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
4.6	87.5°	1.2	1.2	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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