

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: P950607

Luminaire Tested: **GALN-SB5A-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950607
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-SB5A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 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: 19320 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

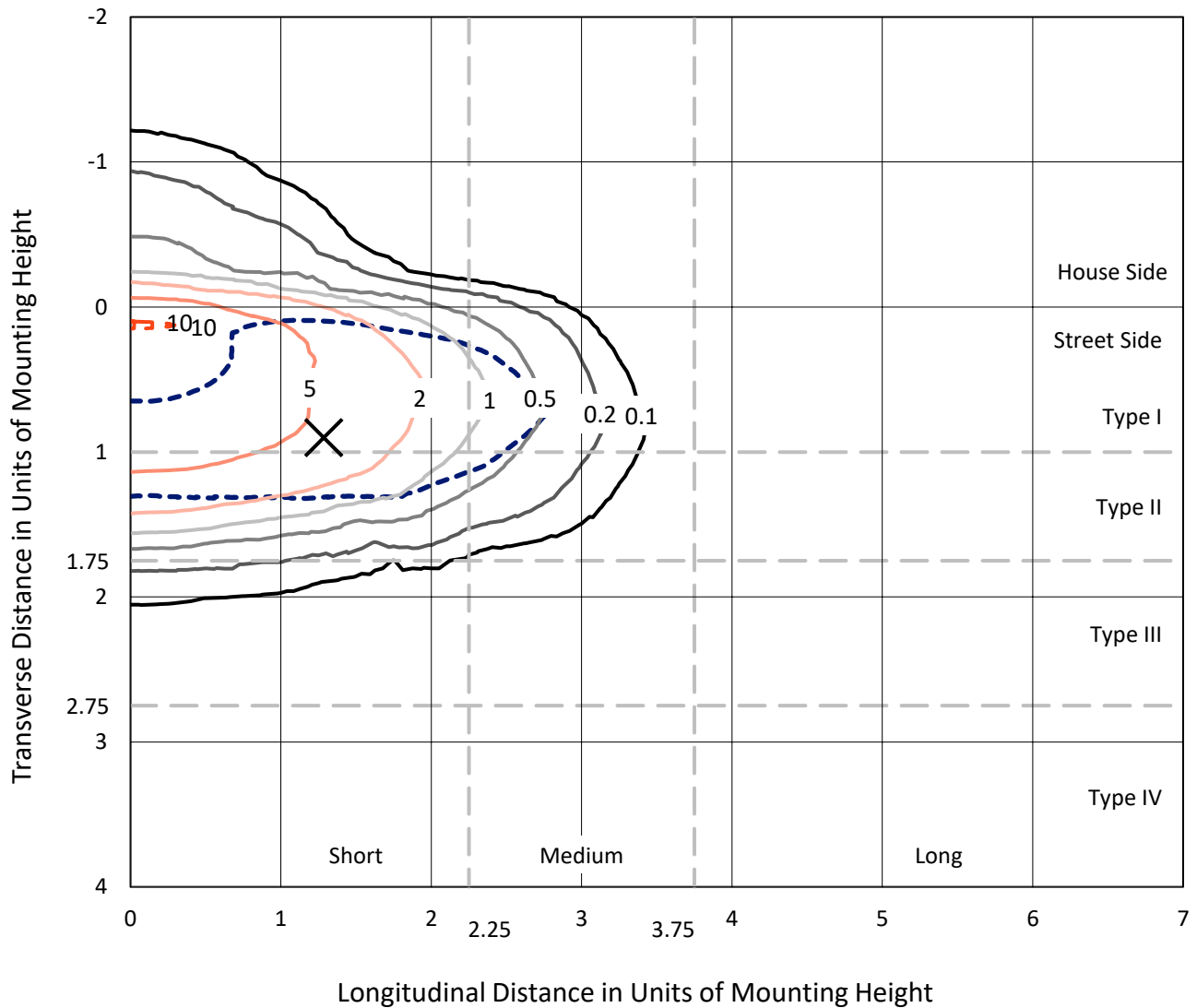
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

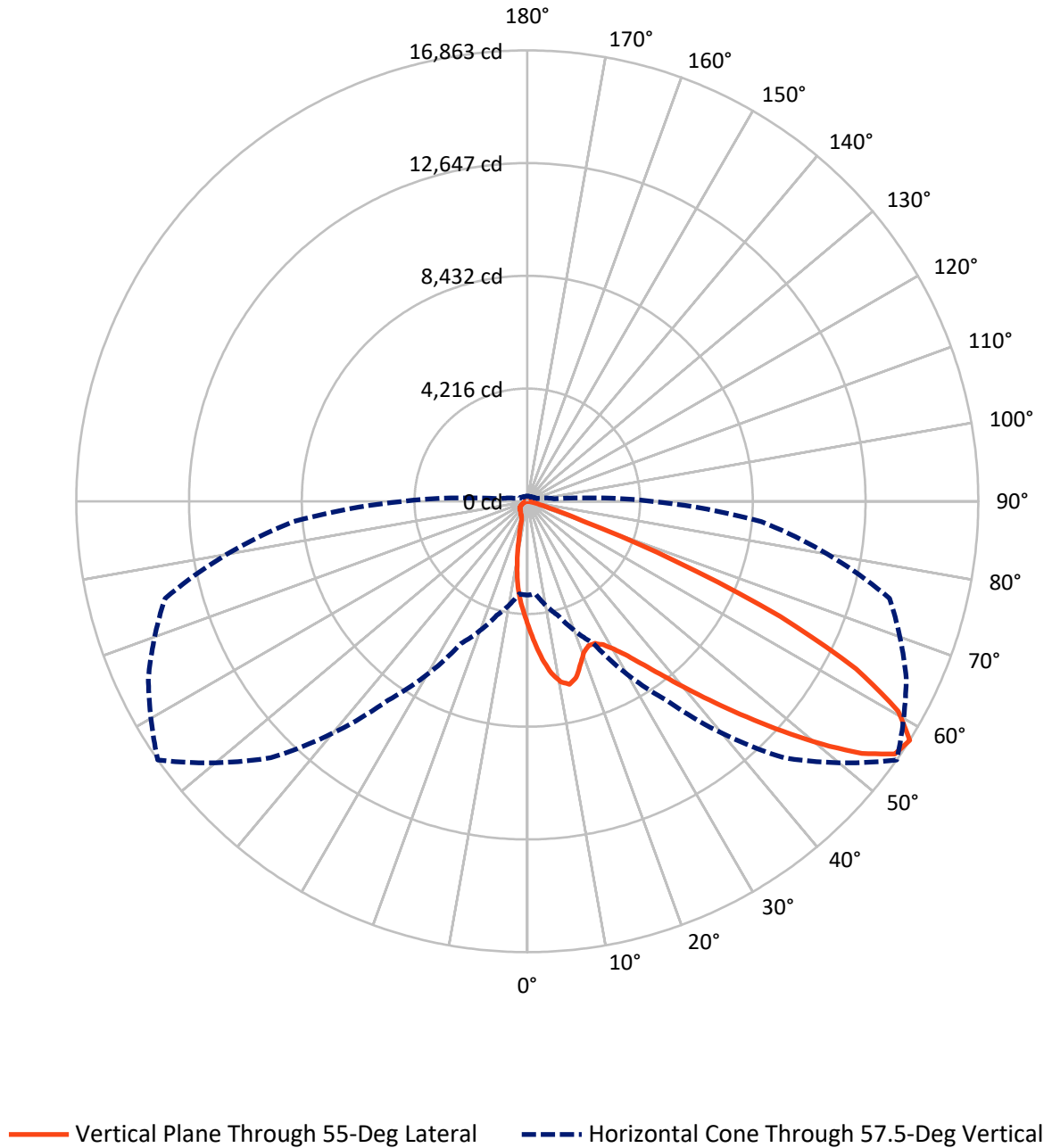
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1508.8	0.0	1508.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	17811.2	0.0	17811.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	19320.0	0.0	19320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.2	2.2
10°-20°	1046.4	5.4
20°-30°	1674.2	8.7
30°-40°	2833.6	14.7
40°-50°	4652.2	24.1
50°-60°	5113.1	26.5
60°-70°	2932.9	15.2
70°-80°	599.3	3.1
80°-90°	35.4	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°	19320.0	100.0
0°-180°	19320.0	100.0

Coefficient of Utilization



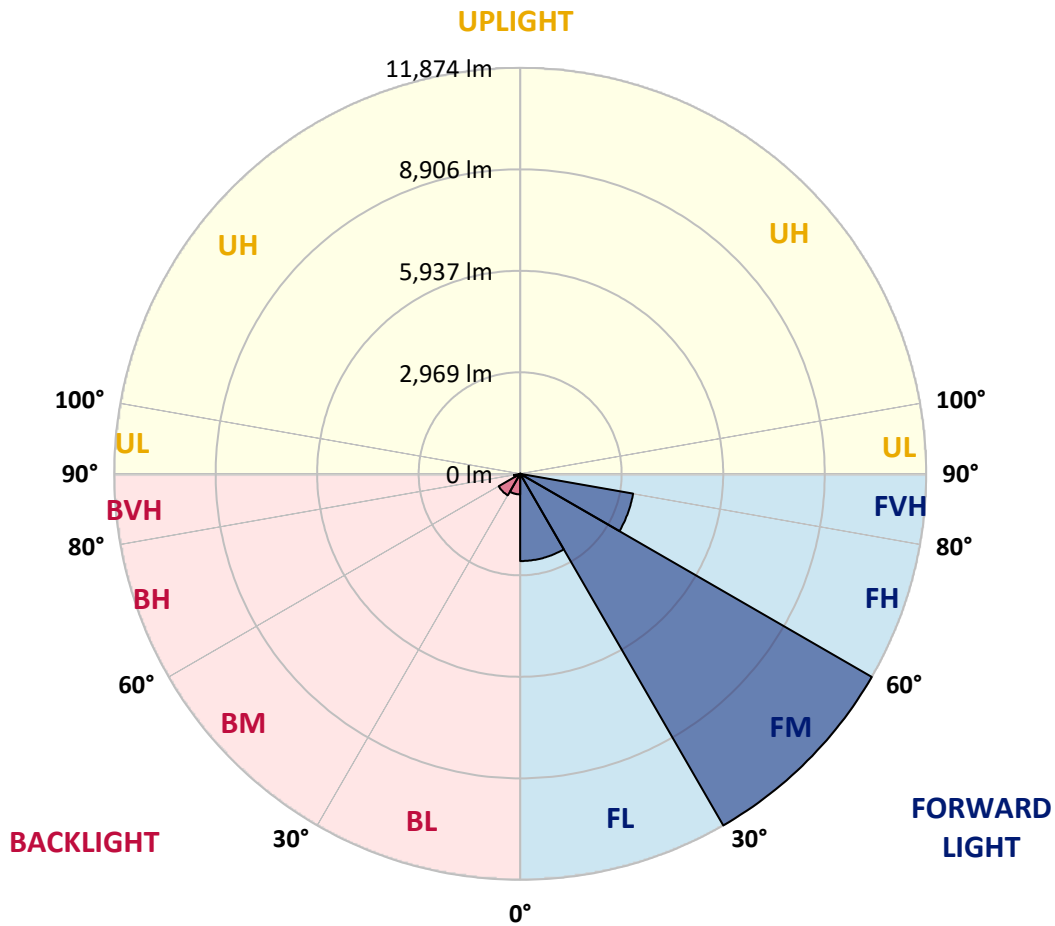
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2551.3	13.2			
FM (30°-60°)	11874.2	61.5			
FH (60°-80°)	3352.7	17.4			G2/5000
FVH (80°-90°)	33.0	0.2			G1/100
BL (0°-30°)	602.4	3.1	B2/1000		
BM (30°-60°)	724.6	3.8	B1/1000		
BH (60°-80°)	179.4	0.9	B1/500		G1/500
BVH (80°-90°)	2.4	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°	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6
2.5°	5776.7	5704.0	5693.3	5679.0	5540.8	5437.1	5287.0	5122.6	4938.0	4749.8
5°	6673.7	6616.5	6605.8	6539.1	6381.9	6205.5	5938.7	5601.5	5257.3	4852.2
7.5°	6847.7	6836.9	6885.8	6883.4	6862.0	6722.6	6497.4	6095.9	5578.9	4978.5
10°	6072.1	6099.5	6244.9	6372.3	6716.6	6916.8	6867.9	6536.7	5910.1	5122.6
12.5°	5365.7	5333.5	5437.1	5581.3	5981.6	6577.2	7021.6	6904.8	6288.9	5285.8
15°	4922.5	4909.4	4967.8	5034.5	5339.5	5939.9	6842.9	7203.9	6653.5	5478.8
17.5°	4780.7	4770.0	4787.9	4804.6	5002.3	5466.9	6417.6	7387.3	7002.5	5699.2
20°	4896.3	4882.0	4879.6	4866.5	4948.7	5265.6	6032.8	7400.4	7315.8	5899.4
22.5°	5233.4	5216.8	5158.4	5106.0	5113.1	5293.0	5861.3	7269.4	7551.7	6086.4
25°	5844.6	5817.2	5695.7	5519.3	5407.4	5483.6	5887.5	7096.6	7776.9	6232.9
27.5°	6609.4	6573.7	6417.6	6155.5	5899.4	5806.5	6076.9	6977.5	7963.9	6344.9
30°	7358.7	7312.3	7158.6	6954.9	6580.8	6287.7	6418.8	7029.9	8186.7	6461.7
32.5°	8167.6	8123.6	7919.8	7667.3	7357.5	6963.2	6887.0	7286.1	8459.5	6624.9
35°	9191.0	9121.9	8832.4	8488.1	8159.3	7760.2	7520.7	7728.0	8822.9	6873.9
37.5°	10356.1	10263.1	9951.0	9475.7	9046.8	8600.1	8292.7	8335.6	9355.4	7207.4
40°	11454.5	11369.9	11081.6	10633.6	10095.2	9553.1	9225.5	9130.2	10090.4	7613.7
42.5°	12113.3	12037.0	11915.5	11726.1	11272.2	10719.4	10306.0	10099.9	10960.1	8099.7
45°	12150.2	12083.5	12246.7	12467.1	12377.7	12009.6	11505.7	11128.0	11833.3	8556.0
47.5°	11559.3	11514.0	12009.6	12779.2	13162.8	13317.7	12853.1	12070.4	12554.0	8883.6
50°	9948.6	9932.0	10951.7	12364.6	13461.8	14463.7	14274.3	12947.2	13112.8	9052.8
52.5°	8626.3	8565.5	9160.0	11037.5	13027.0	15066.5	15663.4	13807.3	13503.5	9084.9
55°	6542.7	6489.1	7234.8	8816.9	11624.8	14852.1	16679.5	14694.8	13783.5	9002.7
57.5°	3509.6	3476.2	4418.6	5868.4	9087.3	13565.5	16863.0	15633.6	14019.3	8784.7
60°	1366.4	1360.5	1713.1	2847.2	5522.9	11036.3	15937.4	16197.1	14167.1	8516.7
62.5°	826.8	844.6	901.8	1278.3	2439.8	6856.0	13803.7	15556.1	14266.0	8271.3
65°	683.8	685.0	692.2	878.0	1168.7	2868.7	10391.8	13447.5	14021.7	7834.1
67.5°	586.1	596.8	624.2	696.9	824.4	1258.0	5982.8	10416.8	12536.2	6816.7
70°	462.2	476.5	511.1	573.0	636.2	787.5	2211.1	6931.0	9577.0	5138.1
72.5°	389.6	388.4	406.2	465.8	505.1	554.0	850.6	3883.7	5565.8	2452.9
75°	301.4	313.3	335.9	389.6	413.4	401.5	461.0	1418.9	1994.3	743.4
77.5°	235.9	245.4	265.7	318.1	341.9	284.7	265.7	507.5	640.9	266.9
80°	106.0	114.4	181.1	234.7	278.8	196.6	144.1	259.7	284.7	121.5
82.5°	19.1	32.2	106.0	123.9	143.0	127.5	75.1	134.6	139.4	48.8
85°	1.2	2.4	36.9	45.3	57.2	41.7	22.6	53.6	46.5	16.7
87.5°	0.0	0.0	0.0	1.2	1.2	6.0	7.1	9.5	7.1	6.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4655.6	0°	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6
4666.4	2.5°	4580.6	4411.4	4247.0	4112.4	4033.8	3900.4	3812.2	3797.9	3761.0	3793.1
4678.3	5°	4492.4	4189.8	3883.7	3609.7	3384.5	3093.8	2877.0	2785.3	2705.5	2732.9
4709.3	7.5°	4450.7	3973.0	3496.5	3028.3	2547.0	2082.4	1736.9	1592.8	1483.2	1498.7
4743.8	10°	4394.7	3747.9	3000.9	2286.1	1641.6	1183.0	944.7	856.6	807.7	808.9
4795.0	12.5°	4351.9	3478.6	2425.5	1549.9	999.5	755.3	681.4	660.0	645.7	646.9
4872.5	15°	4330.4	3161.7	1857.3	1032.9	714.8	639.7	621.9	612.3	602.8	601.6
4958.2	17.5°	4294.7	2809.1	1359.3	754.1	625.4	599.2	583.7	573.0	561.1	558.7
5032.1	20°	4241.1	2408.8	993.6	637.4	586.1	565.9	544.4	530.1	515.8	513.5
5078.6	22.5°	4142.2	1985.9	763.6	589.7	557.5	534.9	508.7	492.0	477.7	475.3
5055.9	25°	3958.7	1589.2	643.3	559.9	532.5	505.1	476.5	453.9	440.8	438.4
5007.1	27.5°	3726.4	1248.5	583.7	532.5	500.4	475.3	443.2	421.7	409.8	407.4
4942.7	30°	3452.4	961.4	549.2	501.5	462.2	440.8	412.2	394.3	387.2	387.2
4897.5	32.5°	3157.0	768.4	534.9	470.6	428.9	405.0	382.4	375.3	372.9	371.7
4922.5	35°	2879.4	667.1	527.8	445.6	399.1	376.5	366.9	368.1	372.9	372.9
4999.9	37.5°	2632.8	635.0	524.2	427.7	372.9	352.6	358.6	369.3	364.5	364.5
5135.7	40°	2410.0	638.5	521.8	414.6	351.4	339.5	351.4	343.1	331.2	330.0
5301.3	42.5°	2239.7	668.3	517.0	403.9	338.3	330.0	325.2	312.1	310.9	313.3
5472.9	45°	2115.8	694.5	515.8	399.1	324.0	308.5	302.6	289.5	313.3	319.3
5543.2	47.5°	1969.2	694.5	515.8	382.4	300.2	294.3	284.7	270.4	294.3	300.2
5476.5	50°	1779.8	650.5	495.6	363.3	281.1	277.6	260.9	243.0	238.3	241.8
5320.4	52.5°	1540.4	570.6	444.4	337.1	262.1	254.9	234.7	221.6	218.0	218.0
5040.4	55°	1267.6	477.7	375.3	299.0	241.8	228.7	214.4	208.5	204.9	202.5
4648.5	57.5°	1030.5	391.9	301.4	265.7	222.8	206.1	201.3	194.2	188.2	184.7
4320.9	60°	845.8	308.5	249.0	235.9	203.7	188.2	187.0	177.5	162.0	159.6
4050.5	62.5°	652.8	226.3	209.7	204.9	184.7	171.5	169.2	150.1	126.3	121.5
3666.9	65°	461.0	176.3	169.2	179.9	164.4	152.5	146.5	117.9	92.9	89.3
3068.8	67.5°	324.0	147.7	133.4	157.3	143.0	127.5	123.9	100.1	77.4	75.1
2320.7	70°	231.1	120.3	109.6	134.6	114.4	112.0	104.8	83.4	63.1	60.8
1148.4	72.5°	163.2	91.7	84.6	116.7	78.6	96.5	85.8	64.3	47.7	45.3
390.8	75°	120.3	65.5	59.6	67.9	57.2	72.7	60.8	42.9	29.8	28.6
176.3	77.5°	88.2	41.7	35.7	33.4	33.4	45.3	33.4	17.9	13.1	11.9
89.3	80°	61.9	19.1	16.7	14.3	13.1	10.7	4.8	2.4	1.2	1.2
31.0	82.5°	36.9	8.3	8.3	6.0	3.6	0.0	0.0	0.0	0.0	0.0
11.9	85°	8.3	3.6	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
4.8	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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