

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: P950040

Luminaire Tested: **GALN-SB4C-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950040
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-SB4C-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 615mA 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: 24478 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

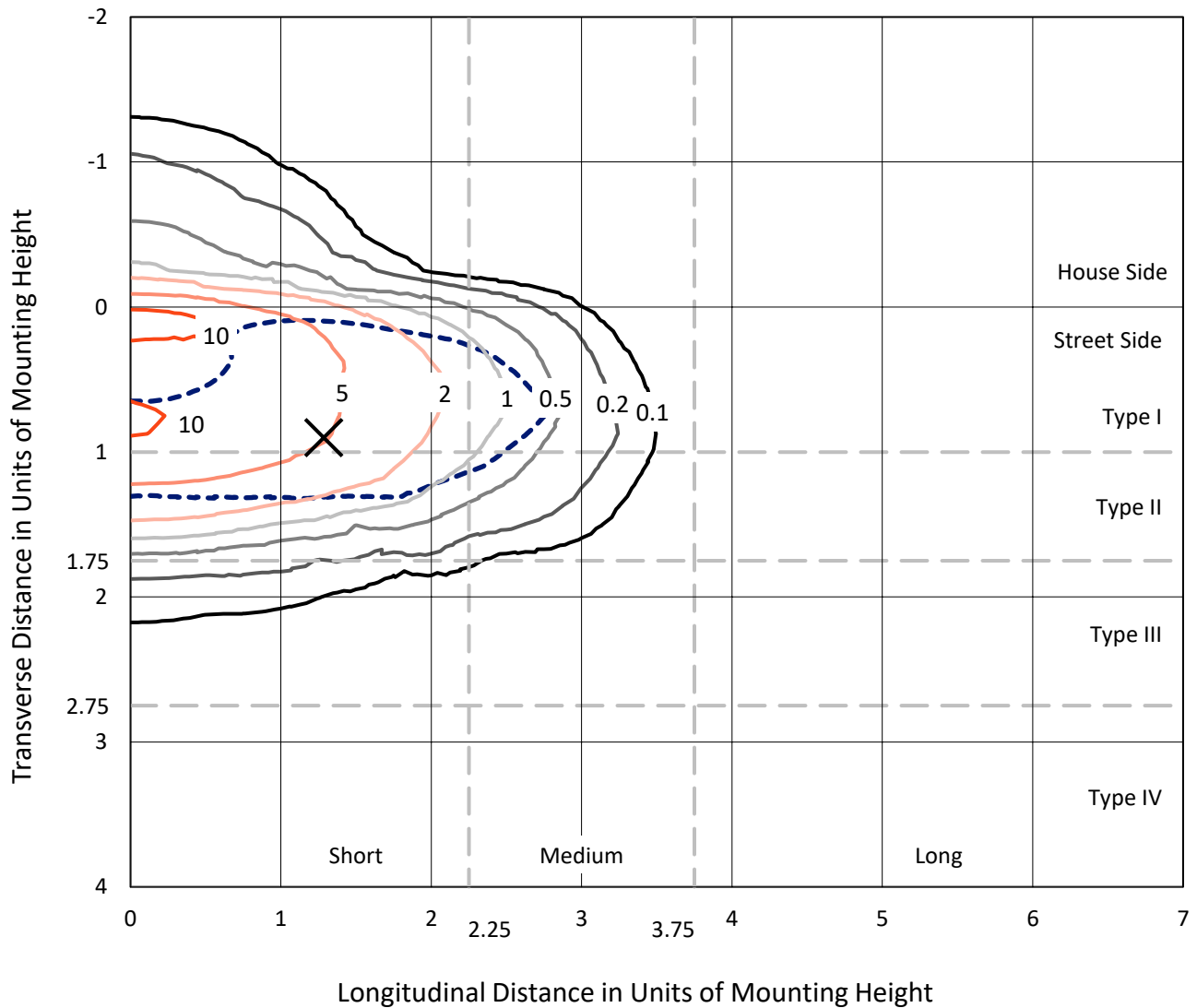
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

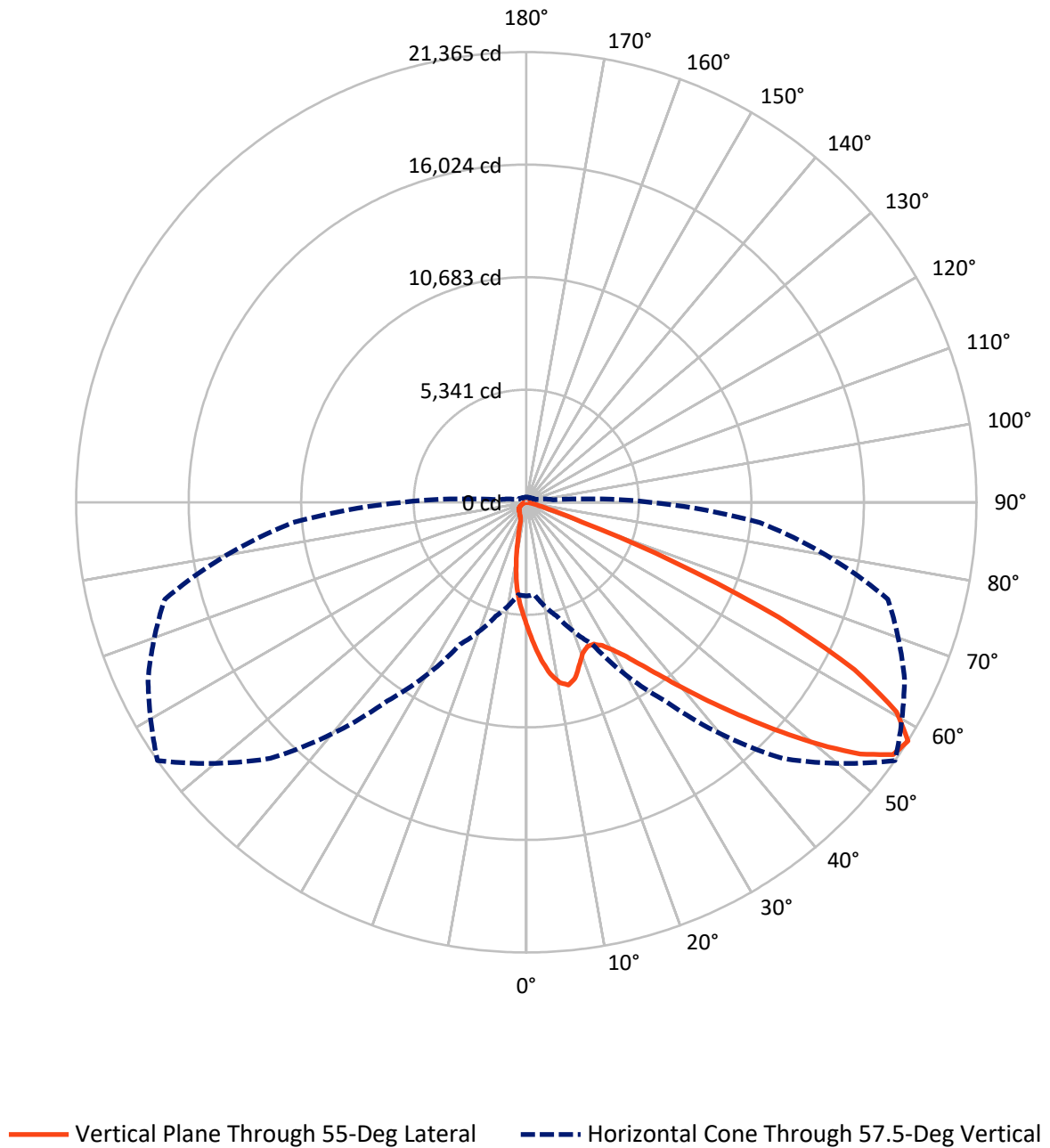
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	1911.6	0.0	1911.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	22566.4	0.0	22566.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	24478.0	0.0	24478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.8	2.2
10°-20°	1325.7	5.4
20°-30°	2121.1	8.7
30°-40°	3590.1	14.7
40°-50°	5894.2	24.1
50°-60°	6478.1	26.5
60°-70°	3715.9	15.2
70°-80°	759.3	3.1
80°-90°	44.8	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°	24478.0	100.0
0°-180°	24478.0	100.0

Coefficient of Utilization



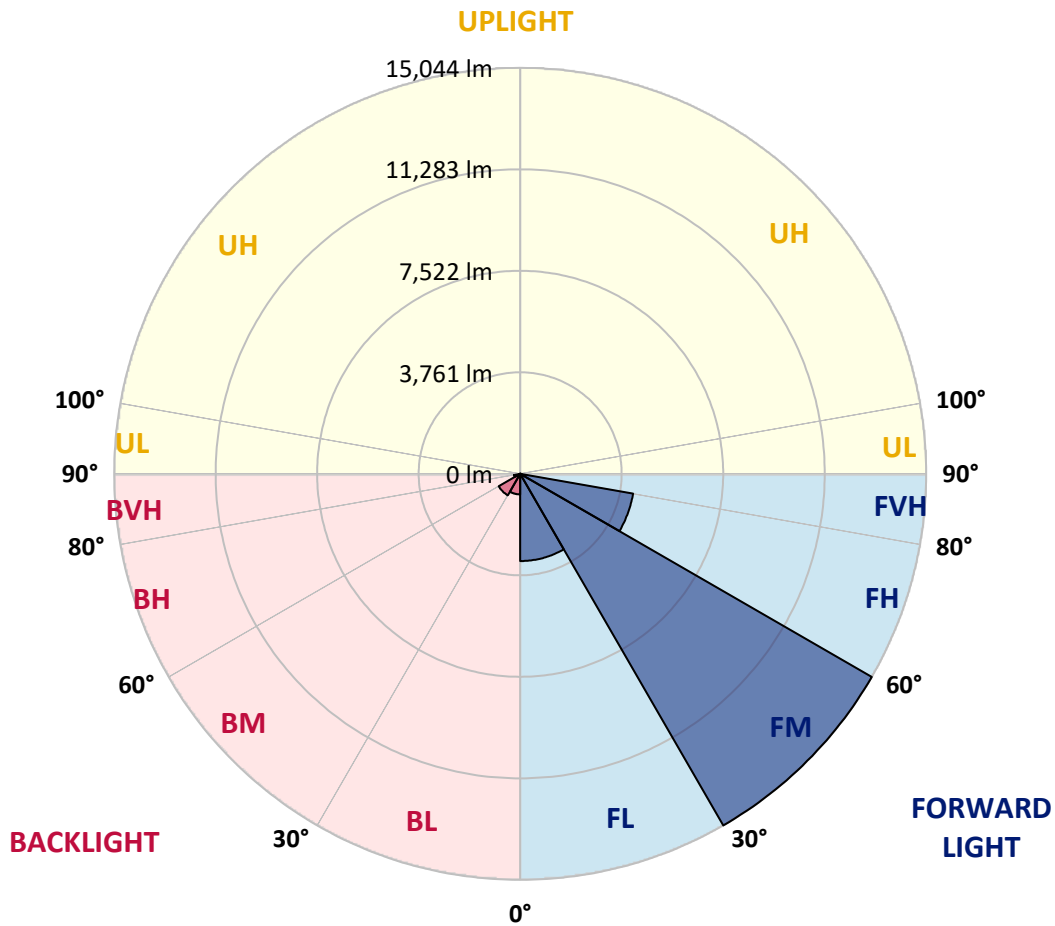
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3232.5	13.2			
FM (30°-60°)	15044.4	61.5			
FH (60°-80°)	4247.8	17.4			G2/5000
FVH (80°-90°)	41.8	0.2			G1/100
BL (0°-30°)	763.2	3.1	B2/1000		
BM (30°-60°)	918.1	3.8	B1/1000		
BH (60°-80°)	227.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6
2.5°	7318.9	7226.8	7213.3	7195.1	7020.1	6888.7	6698.6	6490.3	6256.3	6017.8
5°	8455.5	8383.0	8369.4	8284.9	8085.7	7862.3	7524.2	7097.0	6660.8	6147.6
7.5°	8675.8	8662.2	8724.1	8721.1	8693.9	8517.3	8232.1	7723.4	7068.4	6307.6
10°	7693.2	7727.9	7912.1	8073.6	8509.8	8763.4	8701.5	8281.9	7488.0	6490.3
12.5°	6798.2	6757.4	6888.7	7071.4	7578.5	8333.2	8896.2	8748.3	7967.9	6697.0
15°	6236.7	6220.1	6294.0	6378.6	6765.0	7525.7	8669.8	9127.1	8429.8	6941.6
17.5°	6057.1	6043.5	6066.1	6087.3	6337.8	6926.5	8130.9	9359.6	8872.0	7220.8
20°	6203.5	6185.4	6182.4	6165.8	6269.9	6671.4	7643.4	9376.2	9269.0	7474.4
22.5°	6630.6	6609.5	6535.5	6469.1	6478.2	6706.1	7426.1	9210.1	9567.9	7711.3
25°	7404.9	7370.2	7216.3	6992.9	6851.0	6947.6	7459.3	8991.3	9853.1	7897.0
27.5°	8374.0	8328.7	8130.9	7798.9	7474.4	7356.6	7699.3	8840.3	10090.1	8038.9
30°	9323.3	9264.5	9069.8	8811.7	8337.7	7966.4	8132.5	8906.8	10372.3	8186.8
32.5°	10348.2	10292.4	10034.3	9714.3	9321.8	8822.2	8725.6	9231.3	10718.0	8393.6
35°	11644.7	11557.2	11190.4	10754.2	10337.6	9832.0	9528.6	9791.2	11178.4	8709.0
37.5°	13120.9	13003.2	12607.7	12005.5	11462.1	10896.1	10506.7	10561.0	11853.0	9131.7
40°	14512.5	14405.4	14040.1	13472.6	12790.4	12103.6	11688.5	11567.8	12784.3	9646.3
42.5°	15347.2	15250.6	15096.7	14856.7	14281.6	13581.3	13057.5	12796.4	13886.1	10262.2
45°	15394.0	15309.5	15516.3	15795.5	15682.3	15215.9	14577.4	14099.0	14992.5	10840.3
47.5°	14645.4	14588.0	15215.9	16190.9	16677.0	16873.2	16284.5	15292.9	15905.7	11255.3
50°	12604.7	12583.6	13875.6	15665.7	17055.8	18325.2	18085.2	16403.8	16613.6	11469.7
52.5°	10929.3	10852.3	11605.5	13984.3	16504.9	19088.9	19845.1	17493.5	17108.6	11510.4
55°	8289.4	8221.5	9166.4	11170.8	14728.4	18817.2	21132.6	18618.0	17463.3	11406.3
57.5°	4446.6	4404.3	5598.2	7435.1	11513.4	17187.1	21365.0	19807.4	17762.2	11130.1
60°	1731.2	1723.7	2170.5	3607.4	6997.4	13982.7	20192.3	20521.3	17949.4	10790.4
62.5°	1047.5	1070.1	1142.6	1619.5	3091.2	8686.4	17489.0	19709.3	18074.6	10479.5
65°	866.4	867.9	876.9	1112.4	1480.7	3634.5	13166.2	17037.7	17765.2	9925.6
67.5°	742.6	756.2	790.9	883.0	1044.5	1593.9	7580.0	13197.9	15883.0	8636.6
70°	585.6	603.7	647.5	726.0	806.0	997.7	2801.4	8781.5	12133.8	6509.9
72.5°	493.6	492.1	514.7	590.2	640.0	701.9	1077.7	4920.5	7051.7	3107.8
75°	381.9	397.0	425.6	493.6	523.7	508.7	584.1	1797.7	2526.7	941.8
77.5°	298.9	310.9	336.6	403.0	433.2	360.7	336.6	643.0	812.0	338.1
80°	134.3	144.9	229.4	297.3	353.2	249.0	182.6	329.0	360.7	154.0
82.5°	24.1	40.8	134.3	157.0	181.1	161.5	95.1	170.6	176.6	61.9
85°	1.5	3.0	46.8	57.4	72.4	52.8	28.7	67.9	58.9	21.1
87.5°	0.0	0.0	0.0	1.5	1.5	7.5	9.1	12.1	9.1	7.5
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°
5898.6	0°	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6
5912.2	2.5°	5803.5	5589.2	5380.9	5210.3	5110.7	4941.7	4830.0	4811.9	4765.1	4805.8
5927.3	5°	5691.8	5308.4	4920.5	4573.4	4288.1	3919.8	3645.1	3528.9	3427.8	3462.5
5966.5	7.5°	5639.0	5033.7	4430.0	3836.8	3227.0	2638.4	2200.7	2018.0	1879.2	1898.8
6010.3	10°	5568.0	4748.5	3802.1	2896.5	2079.9	1498.8	1196.9	1085.2	1023.3	1024.9
6075.2	12.5°	5513.7	4407.3	3073.1	1963.7	1266.4	956.9	863.4	836.2	818.1	819.6
6173.3	15°	5486.5	4005.9	2353.1	1308.6	905.6	810.5	787.9	775.8	763.7	762.2
6282.0	17.5°	5441.3	3559.1	1722.2	955.4	792.4	759.2	739.6	726.0	710.9	707.9
6375.6	20°	5373.3	3051.9	1258.8	807.5	742.6	716.9	689.8	671.7	653.6	650.5
6434.4	22.5°	5248.1	2516.1	967.5	747.1	706.4	677.7	644.5	623.4	605.3	602.2
6405.7	25°	5015.6	2013.5	815.1	709.4	674.7	640.0	603.7	575.1	558.5	555.4
6343.9	27.5°	4721.3	1581.8	739.6	674.7	633.9	602.2	561.5	534.3	519.2	516.2
6262.4	30°	4374.1	1218.1	695.8	635.4	585.6	558.5	522.2	499.6	490.5	490.5
6205.0	32.5°	3999.8	973.5	677.7	596.2	543.4	513.2	484.5	475.4	472.4	470.9
6236.7	35°	3648.1	845.2	668.6	564.5	505.6	477.0	464.9	466.4	472.4	472.4
6334.8	37.5°	3335.7	804.5	664.1	541.9	472.4	446.8	454.3	467.9	461.9	461.9
6506.9	40°	3053.4	809.0	661.1	525.3	445.3	430.2	445.3	434.7	419.6	418.1
6716.7	42.5°	2837.6	846.8	655.1	511.7	428.7	418.1	412.1	395.5	393.9	397.0
6934.0	45°	2680.6	880.0	653.6	505.6	410.5	390.9	383.4	366.8	397.0	404.5
7023.1	47.5°	2495.0	880.0	653.6	484.5	380.4	372.8	360.7	342.6	372.8	380.4
6938.5	50°	2255.0	824.1	627.9	460.4	356.2	351.7	330.6	307.9	301.9	306.4
6740.8	52.5°	1951.6	723.0	563.0	427.2	332.1	323.0	297.3	280.7	276.2	276.2
6386.1	55°	1606.0	605.3	475.4	378.9	306.4	289.8	271.7	264.1	259.6	256.6
5889.5	57.5°	1305.6	496.6	381.9	336.6	282.3	261.1	255.1	246.0	238.5	234.0
5474.5	60°	1071.6	390.9	315.5	298.9	258.1	238.5	237.0	224.9	205.3	202.3
5131.8	62.5°	827.1	286.8	265.6	259.6	234.0	217.3	214.3	190.2	160.0	154.0
4645.8	65°	584.1	223.4	214.3	227.9	208.3	193.2	185.7	149.4	117.7	113.2
3888.1	67.5°	410.5	187.2	169.0	199.2	181.1	161.5	157.0	126.8	98.1	95.1
2940.2	70°	292.8	152.4	138.9	170.6	144.9	141.9	132.8	105.7	80.0	77.0
1455.0	72.5°	206.8	116.2	107.2	147.9	99.6	122.3	108.7	81.5	60.4	57.4
495.1	75°	152.4	83.0	75.5	86.0	72.4	92.1	77.0	54.3	37.7	36.2
223.4	77.5°	111.7	52.8	45.3	42.3	42.3	57.4	42.3	22.6	16.6	15.1
113.2	80°	78.5	24.1	21.1	18.1	16.6	13.6	6.0	3.0	1.5	1.5
39.2	82.5°	46.8	10.6	10.6	7.5	4.5	0.0	0.0	0.0	0.0	0.0
15.1	85°	10.6	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	1.5	1.5	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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