

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: P951552

Luminaire Tested: **GALN-SB5C-935-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951552
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-SB5C-935-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3500K, 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: 22438 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

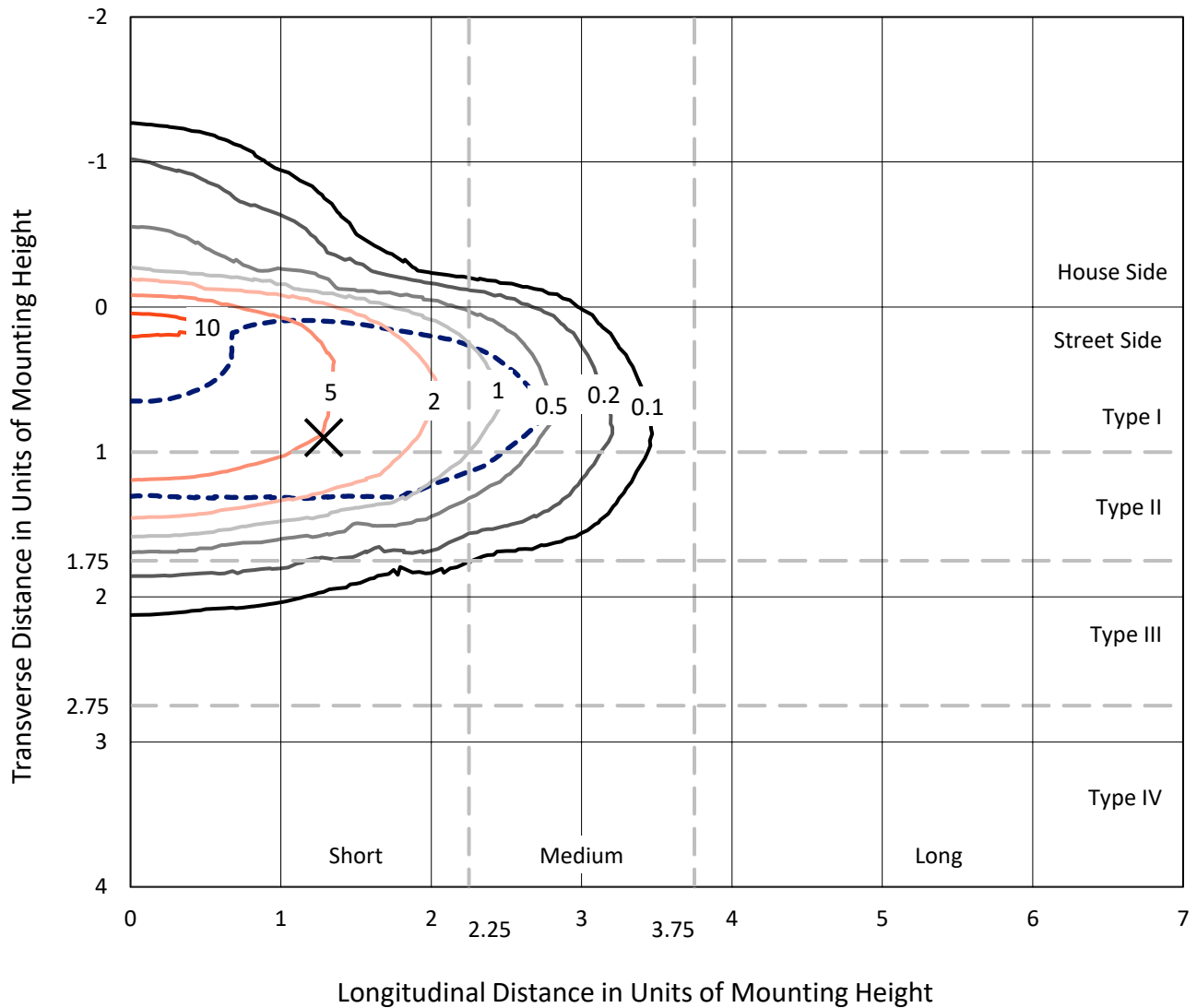
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

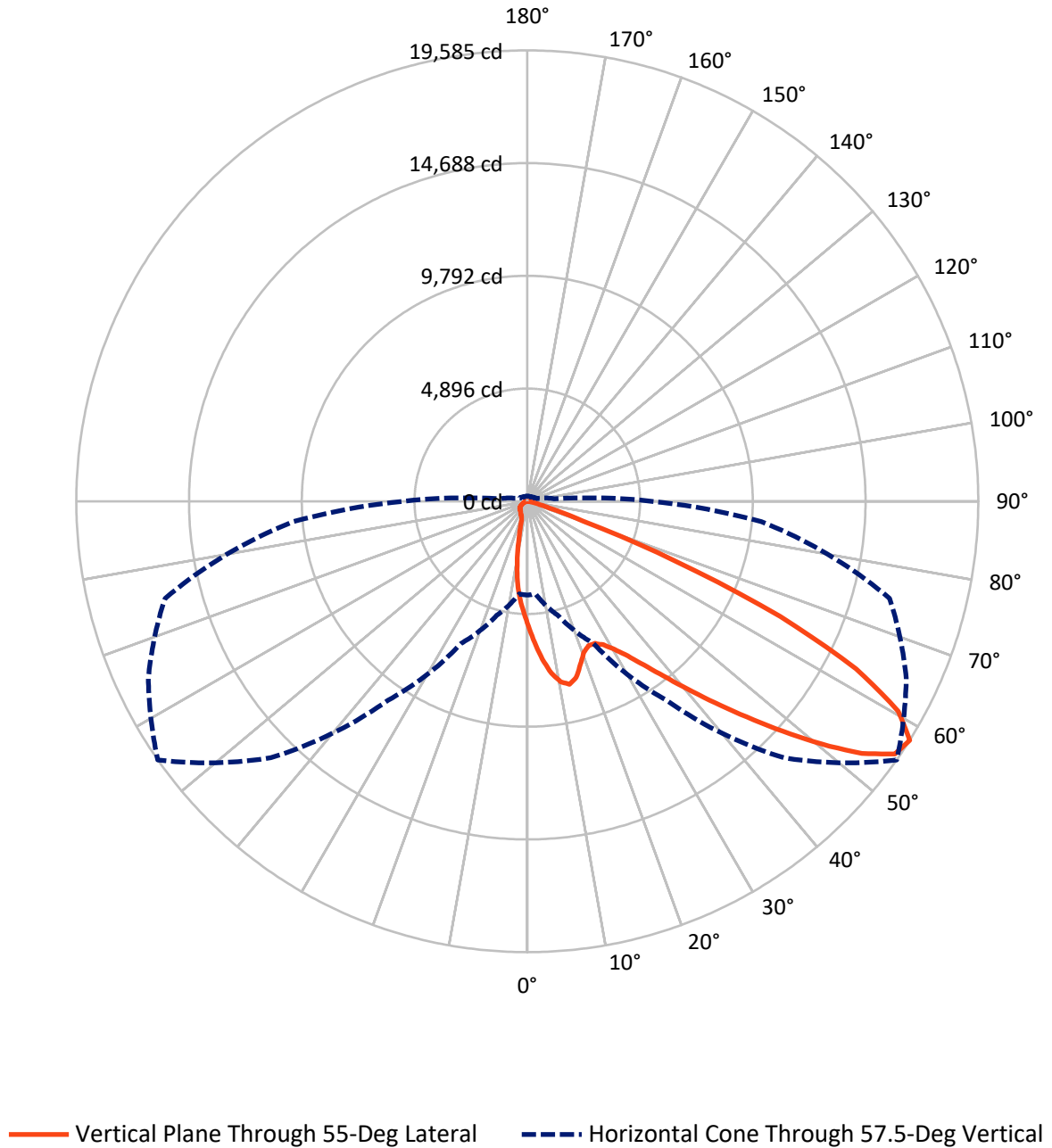
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	1752.3	0.0	1752.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	20685.7	0.0	20685.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	22438.0	0.0	22438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.1	2.2
10°-20°	1215.2	5.4
20°-30°	1944.3	8.7
30°-40°	3290.9	14.7
40°-50°	5403.0	24.1
50°-60°	5938.2	26.5
60°-70°	3406.2	15.2
70°-80°	696.0	3.1
80°-90°	41.1	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°	22438.0	100.0
0°-180°	22438.0	100.0

Coefficient of Utilization



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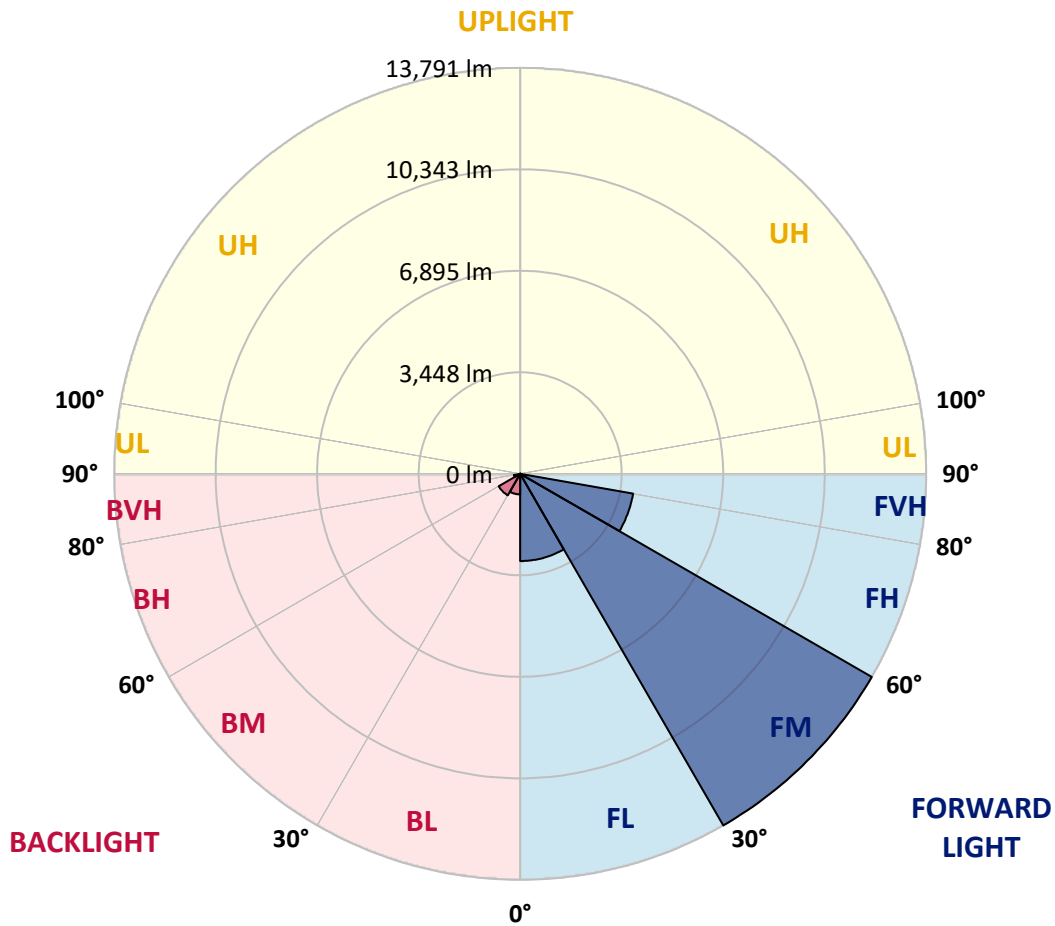
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.1	13.2			
FM (30°-60°)	13790.6	61.5			
FH (60°-80°)	3893.8	17.4			G2/5000
FVH (80°-90°)	38.3	0.2			G1/100
BL (0°-30°)	699.6	3.1	B2/1000		
BM (30°-60°)	841.6	3.8	B1/1000		
BH (60°-80°)	208.4	0.9	B1/500		G1/500
BVH (80°-90°)	2.8	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°	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0
2.5°	6708.9	6624.5	6612.1	6595.5	6435.0	6314.6	6140.3	5949.4	5734.9	5516.3
5°	7750.8	7684.4	7671.9	7594.4	7411.8	7207.0	6897.1	6505.6	6105.7	5635.3
7.5°	7952.8	7940.3	7997.1	7994.3	7969.4	7807.5	7546.0	7079.7	6479.3	5782.0
10°	7052.1	7083.9	7252.7	7400.7	7800.6	8033.0	7976.3	7591.7	6863.9	5949.4
12.5°	6231.6	6194.3	6314.6	6482.0	6946.9	7638.7	8154.8	8019.2	7303.9	6138.9
15°	5716.9	5701.7	5769.5	5847.0	6201.2	6898.5	7947.2	8366.5	7727.3	6363.1
17.5°	5552.3	5539.8	5560.6	5580.0	5809.6	6349.2	7453.3	8579.5	8132.6	6619.0
20°	5686.5	5669.9	5667.1	5651.9	5747.4	6115.4	7006.4	8594.8	8496.5	6851.5
22.5°	6078.0	6058.7	5990.9	5930.0	5938.3	6147.2	6807.2	8442.6	8770.5	7068.7
25°	6787.8	6756.0	6614.9	6410.1	6280.0	6368.6	6837.6	8241.9	9032.0	7238.9
27.5°	7676.1	7634.6	7453.3	7148.9	6851.5	6743.5	7057.6	8103.6	9249.2	7368.9
30°	8546.3	8492.4	8313.9	8077.3	7642.9	7302.5	7454.7	8164.5	9507.9	7504.5
32.5°	9485.8	9434.6	9198.0	8904.7	8544.9	8087.0	7998.4	8461.9	9824.8	7694.1
35°	10674.3	10594.0	10257.8	9858.0	9476.1	9012.6	8734.5	8975.2	10246.7	7983.2
37.5°	12027.4	11919.5	11557.0	11004.9	10506.9	9988.0	9631.1	9680.9	10865.2	8370.6
40°	13303.1	13204.8	12870.0	12349.8	11724.4	11094.9	10714.4	10603.7	11718.9	8842.4
42.5°	14068.2	13979.6	13838.5	13618.5	13091.4	12449.4	11969.3	11729.9	12728.9	9406.9
45°	14111.1	14033.6	14223.1	14479.1	14375.3	13947.8	13362.6	12924.0	13743.0	9936.8
47.5°	13424.8	13372.2	13947.8	14841.6	15287.1	15467.0	14927.4	14018.4	14580.1	10317.3
50°	11554.2	11534.9	12719.2	14360.1	15634.4	16798.0	16578.0	15036.7	15229.0	10513.8
52.5°	10018.5	9947.9	10638.3	12818.8	15129.4	17498.1	18191.2	16035.6	15682.8	10551.1
55°	7598.6	7536.3	8402.4	10239.8	13500.9	17249.0	19371.4	17066.4	16007.9	10455.7
57.5°	4076.0	4037.3	5131.7	6815.5	10553.9	15754.8	19584.5	18156.6	16281.9	10202.5
60°	1587.0	1580.0	1989.6	3306.7	6414.2	12817.4	18509.4	18811.1	16453.5	9891.2
62.5°	960.2	981.0	1047.4	1484.6	2833.6	7962.5	16031.5	18066.7	16568.3	9606.2
65°	794.2	795.6	803.9	1019.7	1357.3	3331.6	12068.9	15617.8	16284.7	9098.4
67.5°	680.7	693.2	725.0	809.4	957.4	1461.1	6948.3	12098.0	14559.3	7916.8
70°	536.8	553.4	593.6	665.5	738.8	914.5	2567.9	8049.6	11122.5	5967.4
72.5°	452.4	451.0	471.8	541.0	586.6	643.4	987.9	4510.4	6464.1	2848.8
75°	350.0	363.9	390.2	452.4	480.1	466.3	535.4	1647.8	2316.1	863.3
77.5°	273.9	285.0	308.5	369.4	397.1	330.7	308.5	589.4	744.4	309.9
80°	123.1	132.8	210.3	272.6	323.8	228.3	167.4	301.6	330.7	141.1
82.5°	22.1	37.4	123.1	143.9	166.0	148.0	87.2	156.3	161.9	56.7
85°	1.4	2.8	42.9	52.6	66.4	48.4	26.3	62.3	54.0	19.4
87.5°	0.0	0.0	0.0	1.4	1.4	6.9	8.3	11.1	8.3	6.9
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°
5407.0	0°	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0	5407.0
5419.5	2.5°	5319.8	5123.4	4932.4	4776.1	4684.8	4529.8	4427.4	4410.8	4367.9	4405.3
5433.3	5°	5217.5	4866.0	4510.4	4192.2	3930.7	3593.1	3341.3	3234.8	3142.1	3173.9
5469.3	7.5°	5169.0	4614.2	4060.8	3517.0	2958.1	2418.5	2017.3	1849.8	1722.5	1740.5
5509.4	10°	5104.0	4352.7	3485.2	2655.1	1906.6	1373.9	1097.2	994.8	938.1	939.4
5568.9	12.5°	5054.2	4040.0	2817.0	1800.0	1160.8	877.2	791.4	766.5	749.9	751.3
5658.8	15°	5029.3	3672.0	2157.0	1199.6	830.1	743.0	722.2	711.2	700.1	698.7
5758.4	17.5°	4987.8	3262.5	1578.7	875.8	726.4	695.9	678.0	665.5	651.7	648.9
5844.2	20°	4925.5	2797.6	1153.9	740.2	680.7	657.2	632.3	615.7	599.1	596.3
5898.2	22.5°	4810.7	2306.4	886.9	684.9	647.5	621.2	590.8	571.4	554.8	552.0
5871.9	25°	4597.6	1845.7	747.1	650.3	618.5	586.6	553.4	527.1	511.9	509.2
5815.2	27.5°	4327.8	1450.0	678.0	618.5	581.1	552.0	514.7	489.8	475.9	473.2
5740.4	30°	4009.6	1116.5	637.8	582.5	536.8	511.9	478.7	458.0	449.7	449.7
5687.9	32.5°	3666.5	892.4	621.2	546.5	498.1	470.4	444.1	435.8	433.1	431.7
5716.9	35°	3344.1	774.8	612.9	517.5	463.5	437.2	426.1	427.5	433.1	433.1
5806.9	37.5°	3057.7	737.4	608.8	496.7	433.1	409.5	416.5	428.9	423.4	423.4
5964.6	40°	2799.0	741.6	606.0	481.5	408.2	394.3	408.2	398.5	384.6	383.2
6156.9	42.5°	2601.1	776.2	600.5	469.0	392.9	383.2	377.7	362.5	361.1	363.9
6356.1	45°	2457.2	806.6	599.1	463.5	376.3	358.3	351.4	336.2	363.9	370.8
6437.8	47.5°	2287.0	806.6	599.1	444.1	348.7	341.7	330.7	314.1	341.7	348.7
6360.3	50°	2067.1	755.4	575.6	422.0	326.5	322.4	303.0	282.2	276.7	280.9
6179.0	52.5°	1789.0	662.7	516.1	391.6	304.4	296.1	272.6	257.3	253.2	253.2
5853.9	55°	1472.1	554.8	435.8	347.3	280.9	265.6	249.0	242.1	238.0	235.2
5398.7	57.5°	1196.8	455.2	350.0	308.5	258.7	239.4	233.8	225.5	218.6	214.5
5018.2	60°	982.3	358.3	289.2	273.9	236.6	218.6	217.2	206.2	188.2	185.4
4704.1	62.5°	758.2	262.9	243.5	238.0	214.5	199.2	196.5	174.3	146.7	141.1
4258.6	65°	535.4	204.8	196.5	208.9	190.9	177.1	170.2	137.0	107.9	103.8
3564.1	67.5°	376.3	171.6	155.0	182.6	166.0	148.0	143.9	116.2	89.9	87.2
2695.2	70°	268.4	139.7	127.3	156.3	132.8	130.1	121.8	96.9	73.3	70.6
1333.8	72.5°	189.5	106.5	98.2	135.6	91.3	112.1	99.6	74.7	55.3	52.6
453.8	75°	139.7	76.1	69.2	78.9	66.4	84.4	70.6	49.8	34.6	33.2
204.8	77.5°	102.4	48.4	41.5	38.7	38.7	52.6	38.7	20.8	15.2	13.8
103.8	80°	71.9	22.1	19.4	16.6	15.2	12.5	5.5	2.8	1.4	1.4
36.0	82.5°	42.9	9.7	9.7	6.9	4.2	0.0	0.0	0.0	0.0	0.0
13.8	85°	9.7	4.2	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
5.5	87.5°	1.4	1.4	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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