

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: P948570

Luminaire Tested: **GALN-SB3C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948570
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-SB3C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 17215 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

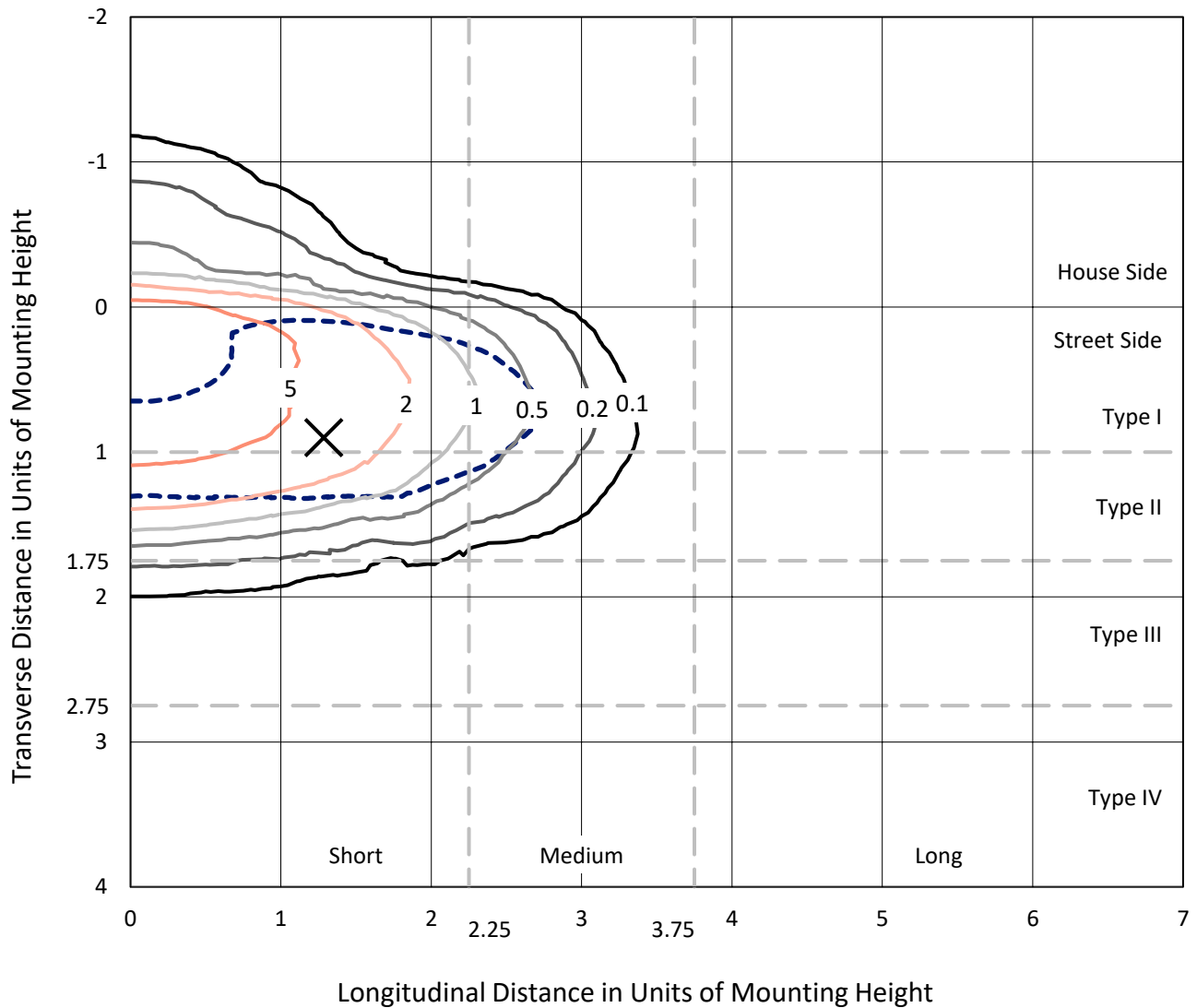
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

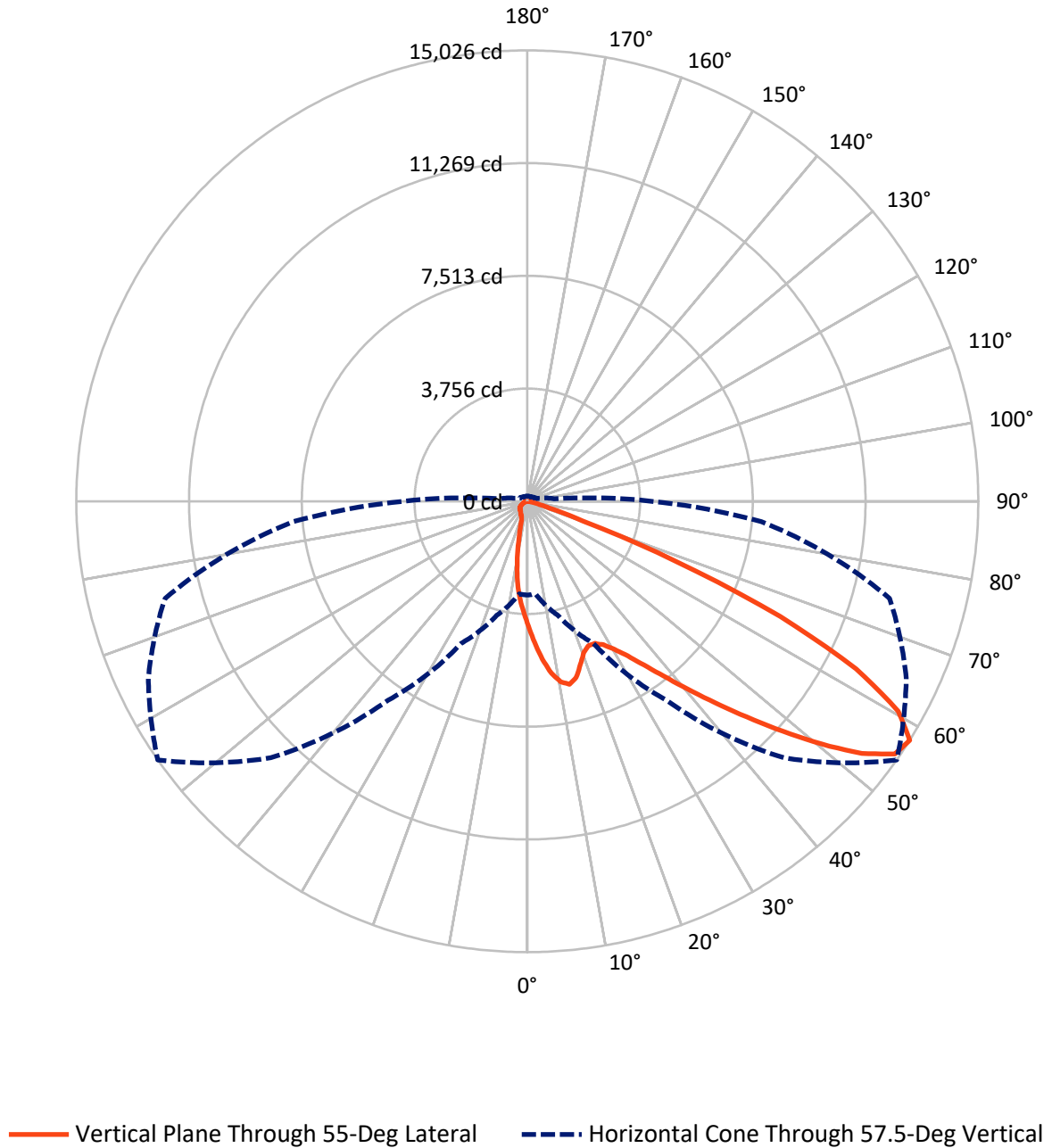
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	1344.4	0.0	1344.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	15870.6	0.0	15870.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	17215.0	0.0	17215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.0	2.2
10°-20°	932.3	5.4
20°-30°	1491.7	8.7
30°-40°	2524.9	14.7
40°-50°	4145.3	24.1
50°-60°	4556.0	26.5
60°-70°	2613.3	15.2
70°-80°	534.0	3.1
80°-90°	31.5	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°	17215.0	100.0
0°-180°	17215.0	100.0

Coefficient of Utilization



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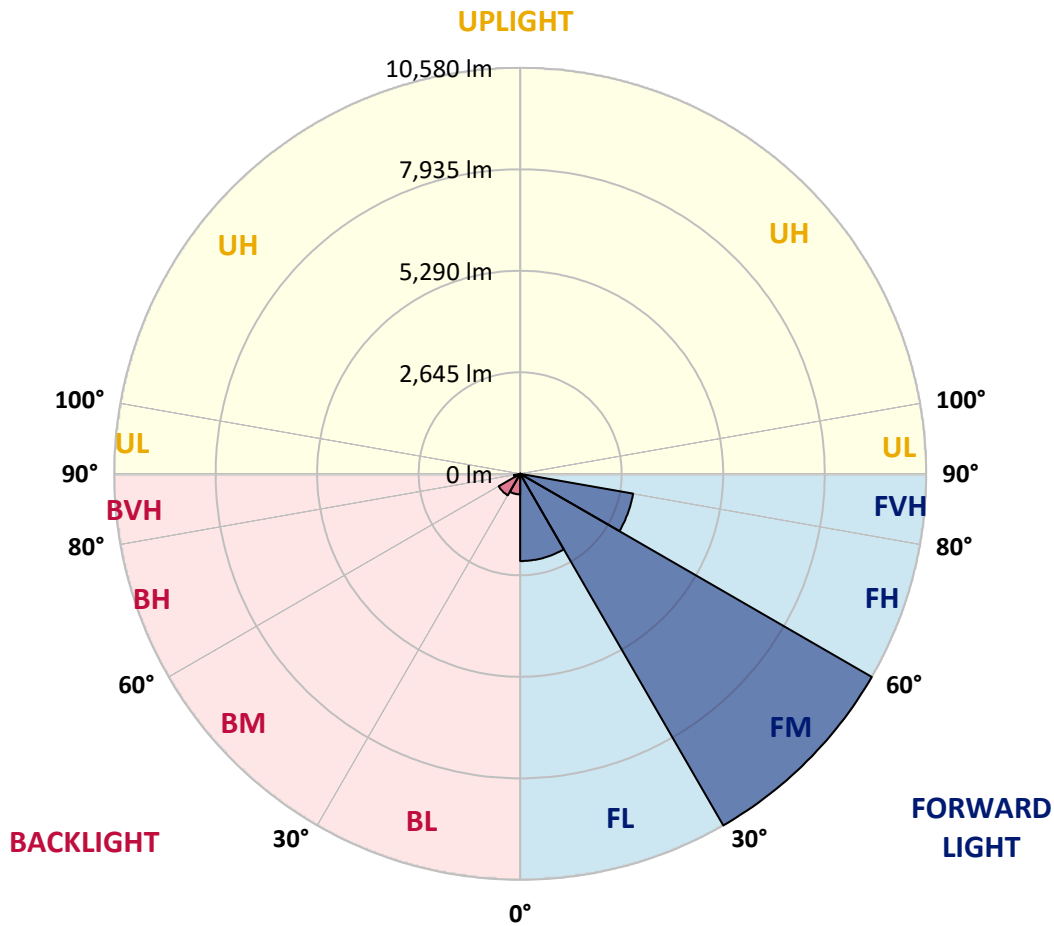
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.3	13.2			
FM (30°-60°)	10580.5	61.5			
FH (60°-80°)	2987.4	17.4			G2/5000
FVH (80°-90°)	29.4	0.2			G1/100
BL (0°-30°)	536.7	3.1	B2/1000		
BM (30°-60°)	645.7	3.8	B1/1000		
BH (60°-80°)	159.9	0.9	B1/500		G1/500
BVH (80°-90°)	2.1	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°	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4
2.5°	5147.3	5082.5	5073.0	5060.2	4937.1	4844.7	4711.0	4564.5	4400.0	4232.3
5°	5946.6	5895.6	5886.1	5826.6	5686.5	5529.4	5291.6	4991.2	4684.5	4323.5
7.5°	6101.6	6092.0	6135.5	6133.4	6114.3	5990.1	5789.5	5431.8	4971.1	4436.1
10°	5410.5	5434.9	5564.4	5678.0	5984.8	6163.1	6119.6	5824.5	5266.2	4564.5
12.5°	4781.1	4752.4	4844.7	4973.2	5329.9	5860.6	6256.6	6152.5	5603.7	4709.9
15°	4386.2	4374.5	4426.5	4486.0	4757.7	5292.7	6097.3	6419.0	5928.5	4881.9
17.5°	4259.8	4250.3	4266.2	4281.1	4457.3	4871.3	5718.4	6582.4	6239.6	5078.3
20°	4362.8	4350.1	4348.0	4336.3	4409.5	4691.9	5375.5	6594.1	6518.7	5256.6
22.5°	4663.2	4648.4	4596.3	4549.6	4556.0	4716.3	5222.6	6477.3	6728.9	5423.3
25°	5207.8	5183.4	5075.1	4918.0	4818.2	4886.1	5246.0	6323.4	6929.6	5553.8
27.5°	5889.3	5857.4	5718.4	5484.8	5256.6	5173.8	5414.8	6217.3	7096.2	5653.6
30°	6557.0	6515.6	6378.6	6197.1	5863.8	5602.7	5719.4	6264.0	7294.7	5757.6
32.5°	7277.7	7238.5	7056.9	6831.9	6555.9	6204.5	6136.6	6492.2	7537.8	5903.1
35°	8189.6	8128.0	7870.1	7563.3	7270.3	6914.7	6701.3	6886.0	7861.6	6124.9
37.5°	9227.7	9144.9	8866.8	8443.3	8061.1	7663.1	7389.2	7427.4	8336.1	6422.2
40°	10206.4	10131.1	9874.2	9475.1	8995.3	8512.3	8220.4	8135.4	8991.0	6784.1
42.5°	10793.5	10725.5	10617.2	10448.5	10044.0	9551.5	9183.1	8999.5	9765.9	7217.2
45°	10826.4	10766.9	10912.3	11108.7	11029.1	10701.1	10252.1	9915.6	10544.0	7623.8
47.5°	10299.9	10259.5	10701.1	11386.8	11728.7	11866.6	11452.7	10755.2	11186.2	7915.7
50°	8864.7	8849.8	9758.5	11017.4	11995.1	12887.8	12719.0	11536.5	11684.1	8066.4
52.5°	7686.4	7632.3	8162.0	9834.9	11607.6	13424.9	13956.8	12302.9	12032.2	8095.1
55°	5829.8	5782.1	6446.6	7856.3	10358.2	13233.9	14862.2	13093.8	12281.7	8021.8
57.5°	3127.2	3097.5	3937.1	5229.0	8097.2	12087.4	15025.7	13930.2	12491.9	7827.6
60°	1217.6	1212.2	1526.5	2537.0	4921.2	9833.9	14200.9	14432.3	12623.5	7588.8
62.5°	736.7	752.6	803.6	1139.0	2174.0	6109.0	12299.7	13861.2	12711.6	7370.1
65°	609.3	610.4	616.7	782.3	1041.3	2556.1	9259.6	11982.4	12494.0	6980.5
67.5°	522.3	531.8	556.2	621.0	734.6	1121.0	5330.9	9281.9	11170.3	6074.0
70°	411.9	424.6	455.4	510.6	566.8	701.7	1970.2	6175.9	8533.5	4578.3
72.5°	347.1	346.1	362.0	415.1	450.1	493.6	757.9	3460.5	4959.4	2185.7
75°	268.6	279.2	299.3	347.1	368.3	357.7	410.8	1264.3	1777.0	662.4
77.5°	210.2	218.7	236.7	283.4	304.7	253.7	236.7	452.2	571.1	237.8
80°	94.5	101.9	161.3	209.1	248.4	175.1	128.4	231.4	253.7	108.3
82.5°	17.0	28.7	94.5	110.4	127.4	113.6	66.9	120.0	124.2	43.5
85°	1.1	2.1	32.9	40.3	51.0	37.2	20.2	47.8	41.4	14.9
87.5°	0.0	0.0	0.0	1.1	1.1	5.3	6.4	8.5	6.4	5.3
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°
4148.4	0°	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4	4148.4
4157.9	2.5°	4081.5	3930.8	3784.3	3664.3	3594.3	3475.4	3396.8	3384.1	3351.2	3379.9
4168.6	5°	4003.0	3733.3	3460.5	3216.4	3015.8	2756.7	2563.6	2481.8	2410.7	2435.1
4196.2	7.5°	3965.8	3540.1	3115.5	2698.4	2269.5	1855.5	1547.7	1419.2	1321.6	1335.4
4226.9	10°	3915.9	3339.5	2673.9	2037.0	1462.8	1054.1	841.8	763.2	719.7	720.8
4272.6	12.5°	3877.7	3099.6	2161.2	1381.0	890.6	673.0	607.2	588.1	575.3	576.4
4341.6	15°	3858.6	2817.3	1654.9	920.3	636.9	570.0	554.1	545.6	537.1	536.1
4418.0	17.5°	3826.8	2503.0	1211.2	671.9	557.3	533.9	520.1	510.6	500.0	497.8
4483.8	20°	3779.0	2146.4	885.3	567.9	522.3	504.2	485.1	472.4	459.6	457.5
4525.2	22.5°	3690.9	1769.5	680.4	525.4	496.8	476.6	453.3	438.4	425.7	423.5
4505.1	25°	3527.4	1416.1	573.2	498.9	474.5	450.1	424.6	404.4	392.8	390.6
4461.5	27.5°	3320.4	1112.5	520.1	474.5	445.8	423.5	394.9	375.8	365.2	363.0
4404.2	30°	3076.3	856.6	489.4	446.9	411.9	392.8	367.3	351.4	345.0	345.0
4363.9	32.5°	2813.0	684.7	476.6	419.3	382.1	360.9	340.7	334.4	332.3	331.2
4386.2	35°	2565.7	594.4	470.3	397.0	355.6	335.4	326.9	328.0	332.3	332.3
4455.2	37.5°	2345.9	565.8	467.1	381.1	332.3	314.2	319.5	329.1	324.8	324.8
4576.2	40°	2147.4	569.0	464.9	369.4	313.1	302.5	313.1	305.7	295.1	294.0
4723.7	42.5°	1995.6	595.5	460.7	359.9	301.5	294.0	289.8	278.1	277.1	279.2
4876.6	45°	1885.2	618.9	459.6	355.6	288.7	274.9	269.6	257.9	279.2	284.5
4939.2	47.5°	1754.7	618.9	459.6	340.7	267.5	262.2	253.7	241.0	262.2	267.5
4879.8	50°	1585.9	579.6	441.6	323.8	250.5	247.3	232.5	216.5	212.3	215.5
4740.7	52.5°	1372.5	508.5	395.9	300.4	233.5	227.2	209.1	197.4	194.3	194.3
4491.3	55°	1129.4	425.7	334.4	266.4	215.5	203.8	191.1	185.8	182.6	180.5
4142.0	57.5°	918.2	349.2	268.6	236.7	198.5	183.6	179.4	173.0	167.7	164.5
3850.1	60°	753.7	274.9	221.9	210.2	181.5	167.7	166.7	158.2	144.4	142.2
3609.1	62.5°	581.7	201.7	186.8	182.6	164.5	152.9	150.7	133.8	112.5	108.3
3267.3	65°	410.8	157.1	150.7	160.3	146.5	135.9	130.6	105.1	82.8	79.6
2734.5	67.5°	288.7	131.6	118.9	140.1	127.4	113.6	110.4	89.2	69.0	66.9
2067.8	70°	205.9	107.2	97.7	120.0	101.9	99.8	93.4	74.3	56.3	54.1
1023.3	72.5°	145.4	81.7	75.4	104.0	70.1	86.0	76.4	57.3	42.5	40.3
348.2	75°	107.2	58.4	53.1	60.5	51.0	64.8	54.1	38.2	26.5	25.5
157.1	77.5°	78.6	37.2	31.8	29.7	29.7	40.3	29.7	15.9	11.7	10.6
79.6	80°	55.2	17.0	14.9	12.7	11.7	9.6	4.2	2.1	1.1	1.1
27.6	82.5°	32.9	7.4	7.4	5.3	3.2	0.0	0.0	0.0	0.0	0.0
10.6	85°	7.4	3.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.2	87.5°	1.1	1.1	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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