

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: P955038

Luminaire Tested: **GALN-SB8A-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955038
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-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 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: 29582 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

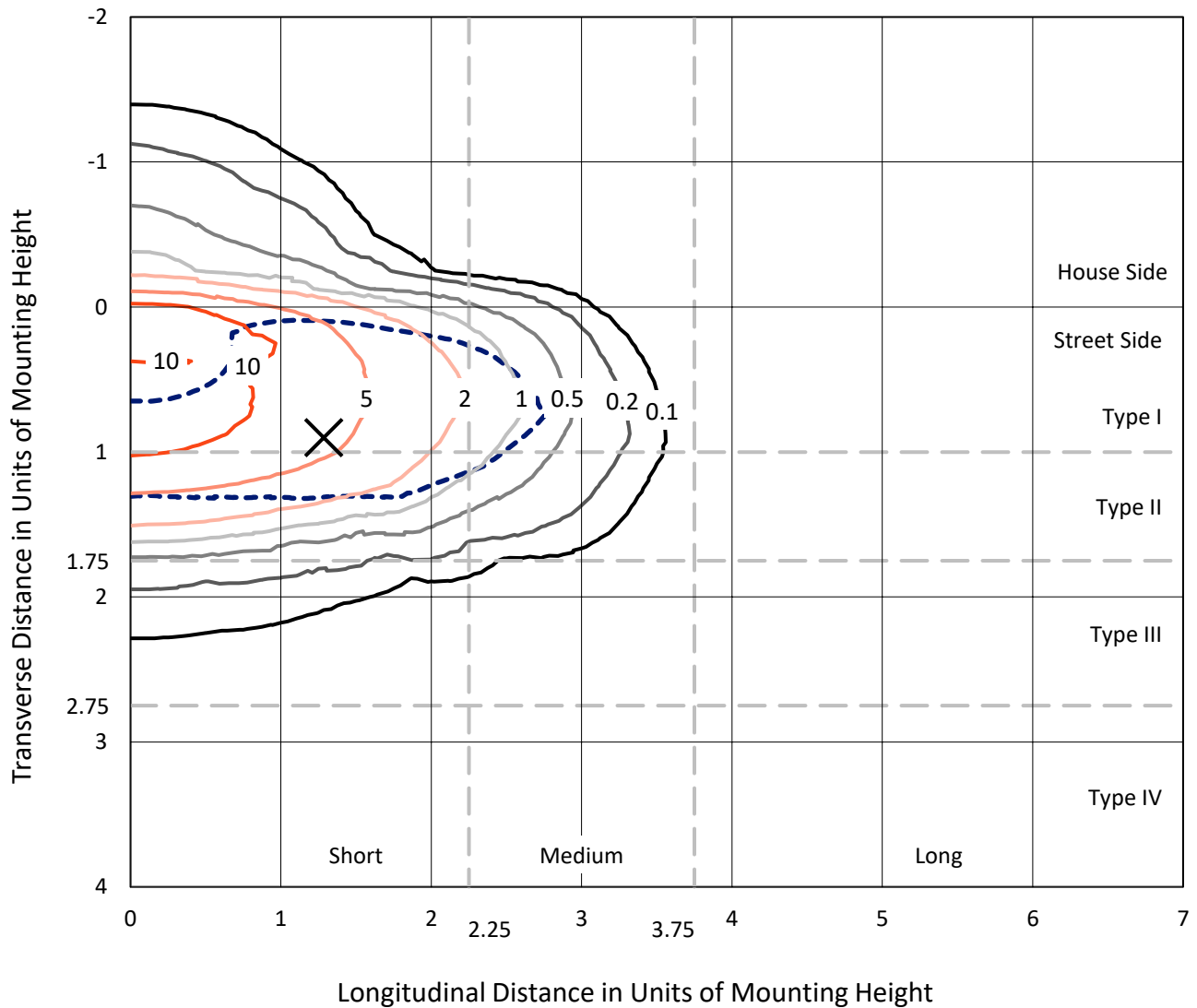
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

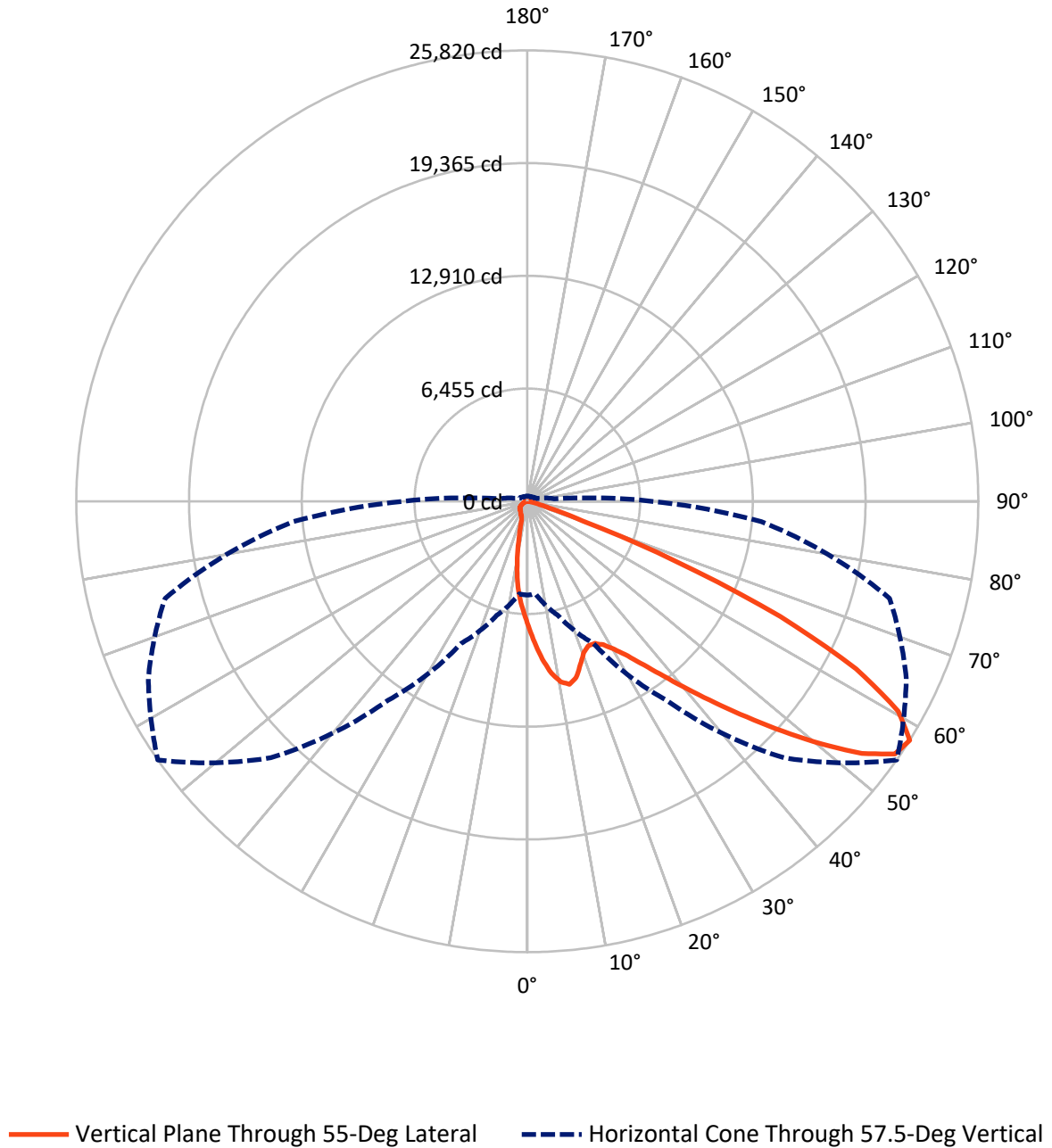
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	2310.2	0.0	2310.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	27271.8	0.0	27271.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	29582.0	0.0	29582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.3	2.2
10°-20°	1602.1	5.4
20°-30°	2563.4	8.7
30°-40°	4338.7	14.7
40°-50°	7123.2	24.1
50°-60°	7828.9	26.5
60°-70°	4490.7	15.2
70°-80°	917.6	3.1
80°-90°	54.1	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°	29582.0	100.0
0°-180°	29582.0	100.0

Coefficient of Utilization



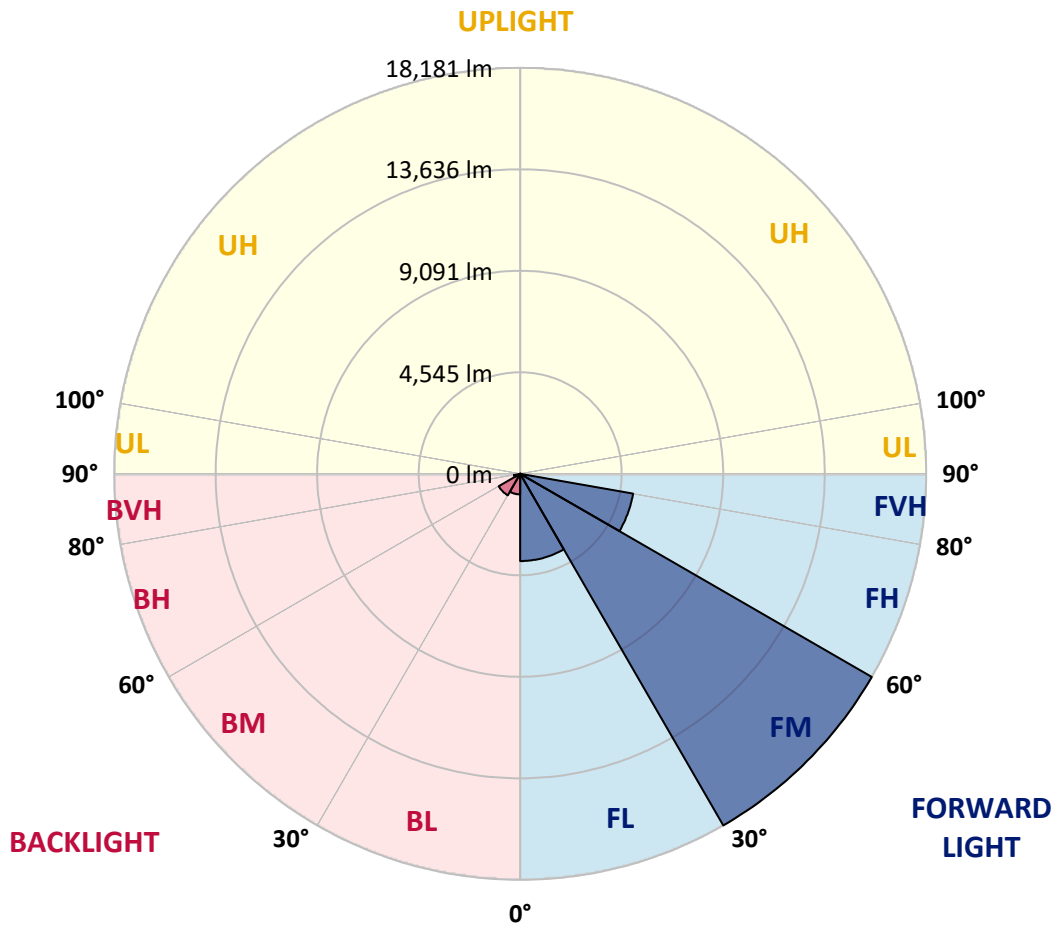
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3906.5	13.2			
FM (30°-60°)	18181.3	61.5			
FH (60°-80°)	5133.5	17.4			G3/7500
FVH (80°-90°)	50.5	0.2			G1/100
BL (0°-30°)	922.3	3.1	B2/1000		
BM (30°-60°)	1109.5	3.8	B2/2500		
BH (60°-80°)	274.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.6	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5
2.5°	8845.0	8733.7	8717.3	8695.4	8483.8	8325.1	8095.3	7843.6	7560.8	7272.6
5°	10218.5	10131.0	10114.6	10012.4	9771.6	9501.7	9093.1	8576.9	8049.7	7429.5
7.5°	10484.9	10468.4	10543.2	10539.6	10506.7	10293.3	9948.6	9333.9	8542.2	7622.9
10°	9297.4	9339.3	9561.9	9757.0	10284.2	10590.7	10515.9	10008.8	9049.3	7843.6
12.5°	8215.7	8166.4	8325.1	8545.8	9158.7	10070.8	10751.2	10572.4	9629.4	8093.5
15°	7537.1	7517.1	7606.4	7708.6	8175.6	9094.9	10477.6	11030.3	10187.5	8389.0
17.5°	7320.1	7303.6	7331.0	7356.5	7659.3	8370.7	9826.4	11311.2	10722.0	8726.4
20°	7497.0	7475.1	7471.5	7451.4	7577.3	8062.5	9237.2	11331.2	11201.7	9032.9
22.5°	8013.2	7987.7	7898.3	7818.0	7829.0	8104.4	8974.5	11130.6	11562.9	9319.3
25°	8949.0	8907.0	8721.0	8451.0	8279.5	8396.3	9014.6	10866.1	11907.6	9543.6
27.5°	10120.0	10065.3	9826.4	9425.1	9032.9	8890.6	9304.7	10683.7	12194.0	9715.1
30°	11267.4	11196.2	10960.9	10649.0	10076.3	9627.5	9828.2	10763.9	12535.1	9893.8
32.5°	12505.9	12438.5	12126.5	11739.8	11265.6	10661.8	10545.0	11156.1	12952.8	10143.7
35°	14072.8	13967.0	13523.8	12996.6	12493.2	11882.1	11515.5	11832.9	13509.2	10525.0
37.5°	15856.8	15714.5	15236.6	14508.8	13852.1	13168.1	12697.5	12763.1	14324.6	11035.7
40°	17538.6	17409.1	16967.7	16281.8	15457.3	14627.4	14125.7	13979.8	15450.0	11657.7
42.5°	18547.3	18430.6	18244.5	17954.5	17259.5	16413.1	15780.2	15464.6	16781.6	12402.0
45°	18603.9	18501.7	18751.6	19089.1	18952.3	18388.6	17617.0	17038.8	18118.7	13100.6
47.5°	17699.1	17629.8	18388.6	19567.0	20154.3	20391.5	19680.1	18481.7	19222.2	13602.2
50°	15233.0	15207.4	16768.8	18932.2	20612.2	22146.2	21856.2	19824.2	20077.7	13861.2
52.5°	13208.2	13115.2	14025.4	16900.2	19946.4	23069.2	23983.1	21141.2	20676.0	13910.5
55°	10017.9	9935.8	11077.7	13500.1	17799.4	22740.9	25539.0	22500.1	21104.7	13784.6
57.5°	5373.8	5322.7	6765.5	8985.5	13914.1	20770.9	25820.0	23937.5	21465.9	13450.8
60°	2092.2	2083.1	2623.0	4359.6	8456.5	16898.3	24402.6	24800.3	21692.0	13040.4
62.5°	1265.9	1293.3	1380.8	1957.2	3735.7	10497.6	21135.7	23818.9	21843.4	12664.6
65°	1047.0	1048.9	1059.8	1344.4	1789.4	4392.4	15911.5	20590.3	21469.5	11995.2
67.5°	897.5	913.9	955.8	1067.1	1262.3	1926.2	9160.6	15949.8	19194.9	10437.4
70°	707.7	729.6	782.5	877.4	974.1	1205.7	3385.5	10612.5	14663.8	7867.3
72.5°	596.5	594.7	622.0	713.2	773.4	848.2	1302.4	5946.5	8522.1	3755.8
75°	461.5	479.7	514.4	596.5	633.0	614.7	705.9	2172.5	3053.5	1138.2
77.5°	361.2	375.8	406.8	487.0	523.5	436.0	406.8	777.1	981.4	408.6
80°	162.3	175.1	277.3	359.3	426.8	301.0	220.7	397.7	436.0	186.1
82.5°	29.2	49.3	162.3	189.7	218.9	195.2	114.9	206.1	213.4	74.8
85°	1.8	3.6	56.5	69.3	87.6	63.8	34.7	82.1	71.1	25.5
87.5°	0.0	0.0	0.0	1.8	1.8	9.1	10.9	14.6	10.9	9.1
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°
7128.5	0°	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5	7128.5
7144.9	2.5°	7013.6	6754.6	6502.9	6296.7	6176.4	5972.1	5837.1	5815.2	5758.6	5807.9
7163.2	5°	6878.6	6415.3	5946.5	5527.0	5182.2	4737.2	4405.2	4264.7	4142.5	4184.5
7210.6	7.5°	6814.8	6083.3	5353.7	4636.8	3899.9	3188.5	2659.5	2438.8	2271.0	2294.7
7263.5	10°	6729.1	5738.6	4594.9	3500.4	2513.6	1811.3	1446.5	1311.5	1236.7	1238.6
7342.0	12.5°	6663.4	5326.3	3713.8	2373.1	1530.4	1156.5	1043.4	1010.5	988.7	990.5
7460.5	15°	6630.6	4841.1	2843.8	1581.5	1094.5	979.5	952.2	937.6	923.0	921.2
7591.9	17.5°	6575.8	4301.2	2081.3	1154.6	957.6	917.5	893.8	877.4	859.1	855.5
7704.9	20°	6493.8	3688.3	1521.3	975.9	897.5	866.4	833.6	811.7	789.8	786.2
7776.1	22.5°	6342.4	3040.8	1169.2	902.9	853.7	819.0	778.9	753.3	731.5	727.8
7741.4	25°	6061.4	2433.3	985.0	857.3	815.4	773.4	729.6	695.0	674.9	671.3
7666.6	27.5°	5705.7	1911.6	893.8	815.4	766.1	727.8	678.6	645.7	627.5	623.8
7568.1	30°	5286.2	1472.0	840.9	767.9	707.7	674.9	631.1	603.8	592.8	592.8
7498.8	32.5°	4833.8	1176.5	819.0	720.5	656.7	620.2	585.5	574.6	570.9	569.1
7537.1	35°	4408.8	1021.5	808.1	682.2	611.1	576.4	561.8	563.6	570.9	570.9
7655.7	37.5°	4031.2	972.2	802.6	654.8	570.9	539.9	549.1	565.5	558.2	558.2
7863.6	40°	3690.1	977.7	799.0	634.8	538.1	519.9	538.1	525.3	507.1	505.3
8117.2	42.5°	3429.3	1023.3	791.7	618.4	518.0	505.3	498.0	477.9	476.1	479.7
8379.9	45°	3239.6	1063.4	789.8	611.1	496.2	472.4	463.3	443.3	479.7	488.9
8487.5	47.5°	3015.2	1063.4	789.8	585.5	459.7	450.5	436.0	414.1	450.5	459.7
8385.3	50°	2725.2	996.0	758.8	556.3	430.5	425.0	399.5	372.1	364.8	370.3
8146.4	52.5°	2358.5	873.7	680.4	516.2	401.3	390.4	359.3	339.3	333.8	333.8
7717.7	55°	1940.8	731.5	574.6	457.8	370.3	350.2	328.3	319.2	313.7	310.1
7117.6	57.5°	1577.8	600.1	461.5	406.8	341.1	315.6	308.3	297.3	288.2	282.7
6616.0	60°	1295.1	472.4	381.2	361.2	311.9	288.2	286.4	271.8	248.1	244.4
6201.9	62.5°	999.6	346.6	321.0	313.7	282.7	262.7	259.0	229.8	193.4	186.1
5614.5	65°	705.9	270.0	259.0	275.4	251.7	233.5	224.4	180.6	142.3	136.8
4698.8	67.5°	496.2	226.2	204.3	240.8	218.9	195.2	189.7	153.2	118.6	114.9
3553.3	70°	353.9	184.2	167.8	206.1	175.1	171.5	160.5	127.7	96.7	93.0
1758.4	72.5°	249.9	140.5	129.5	178.8	120.4	147.8	131.3	98.5	73.0	69.3
598.3	75°	184.2	100.3	91.2	104.0	87.6	111.3	93.0	65.7	45.6	43.8
270.0	77.5°	135.0	63.8	54.7	51.1	51.1	69.3	51.1	27.4	20.1	18.2
136.8	80°	94.9	29.2	25.5	21.9	20.1	16.4	7.3	3.6	1.8	1.8
47.4	82.5°	56.5	12.8	12.8	9.1	5.5	0.0	0.0	0.0	0.0	0.0
18.2	85°	12.8	5.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
7.3	87.5°	1.8	1.8	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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