

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: P956067

Luminaire Tested: **GALN-SB8D-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956067
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-SB8D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA 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: 63041 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

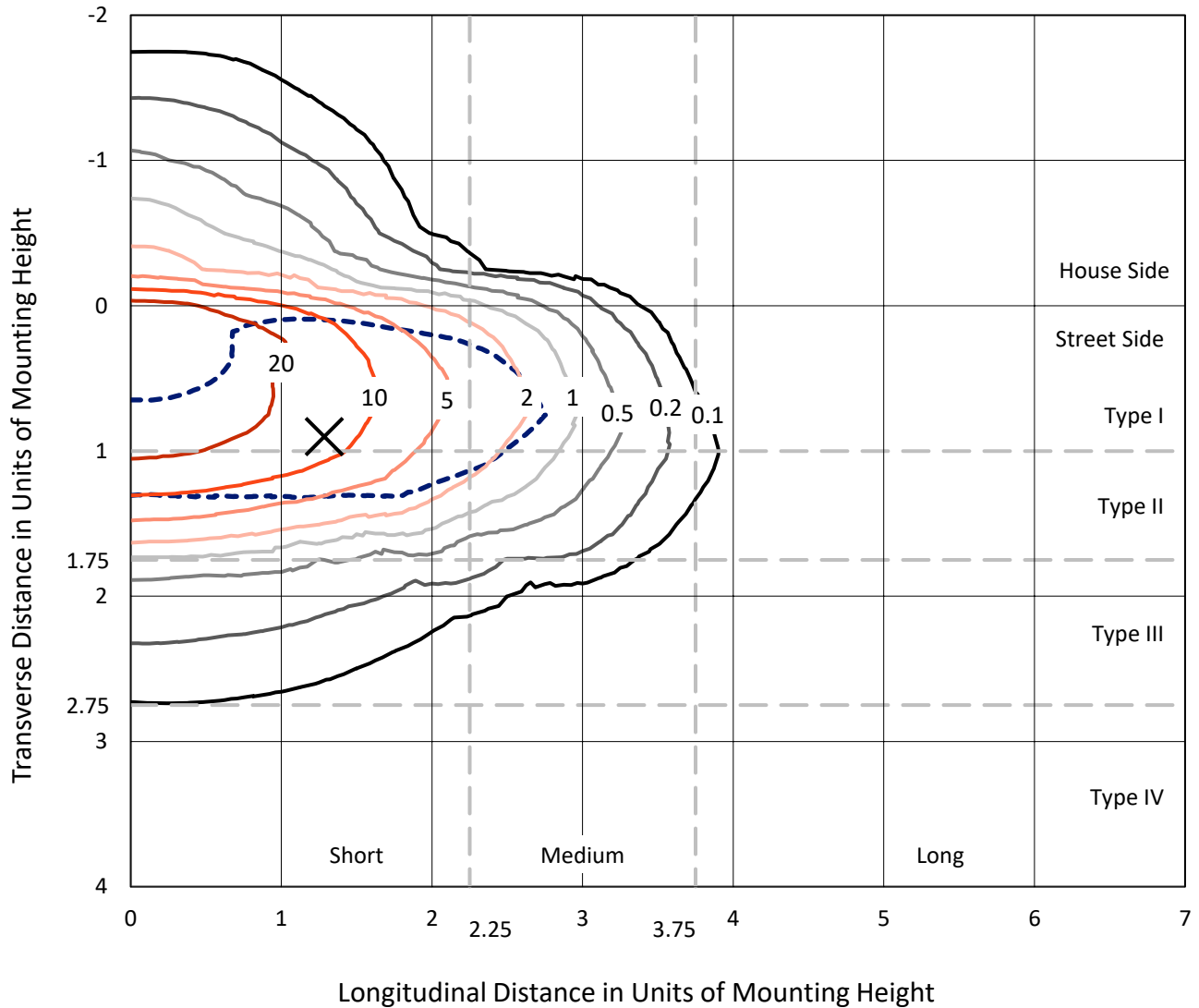
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

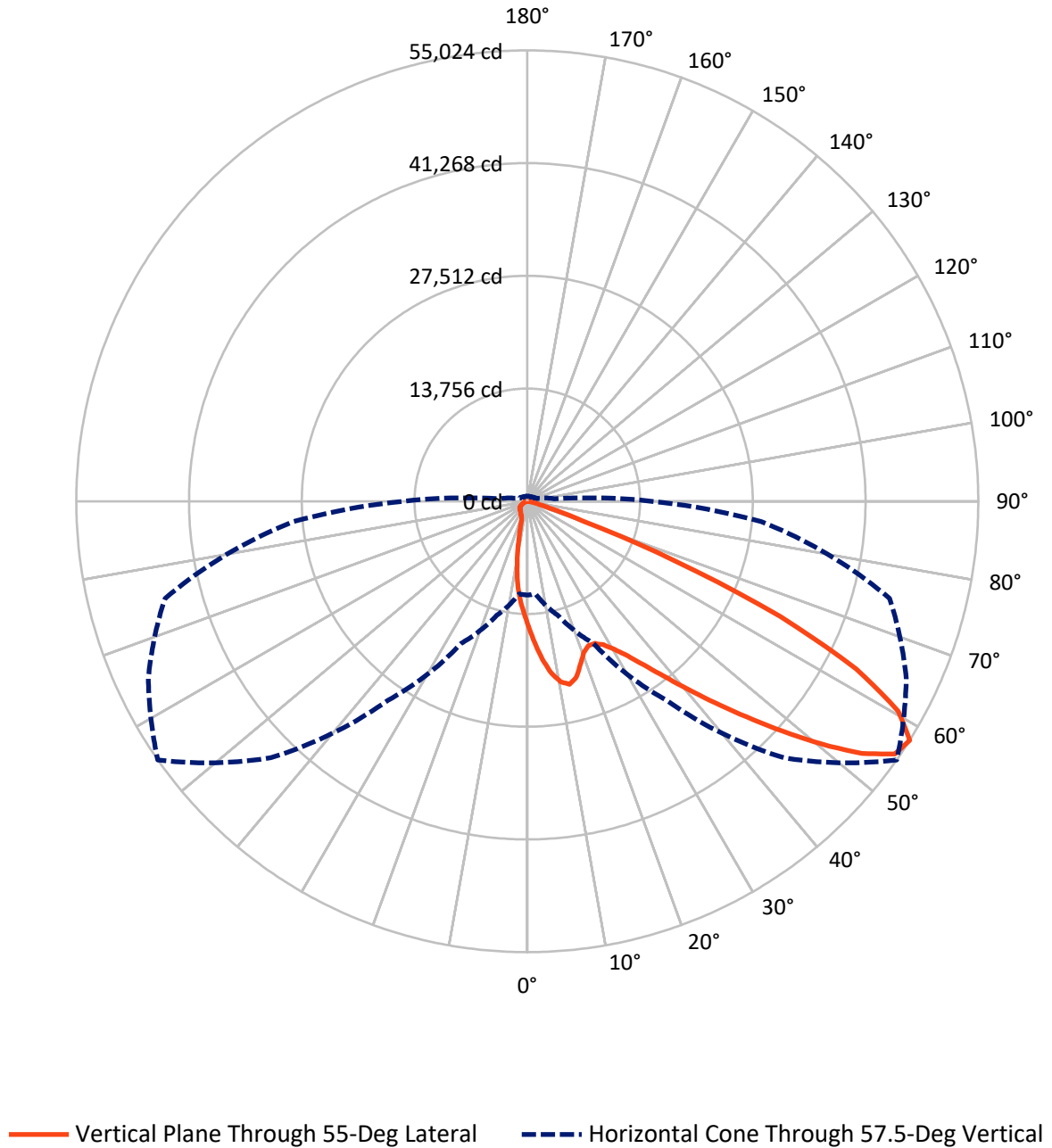
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.8 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	4923.2	0.0	4923.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	58117.8	0.0	58117.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	63041.0	0.0	63041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1413.5	2.2
10°-20°	3414.2	5.4
20°-30°	5462.7	8.7
30°-40°	9246.0	14.7
40°-50°	15180.0	24.1
50°-60°	16683.9	26.5
60°-70°	9569.9	15.2
70°-80°	1955.4	3.1
80°-90°	115.3	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°	63041.0	100.0
0°-180°	63041.0	100.0

Coefficient of Utilization



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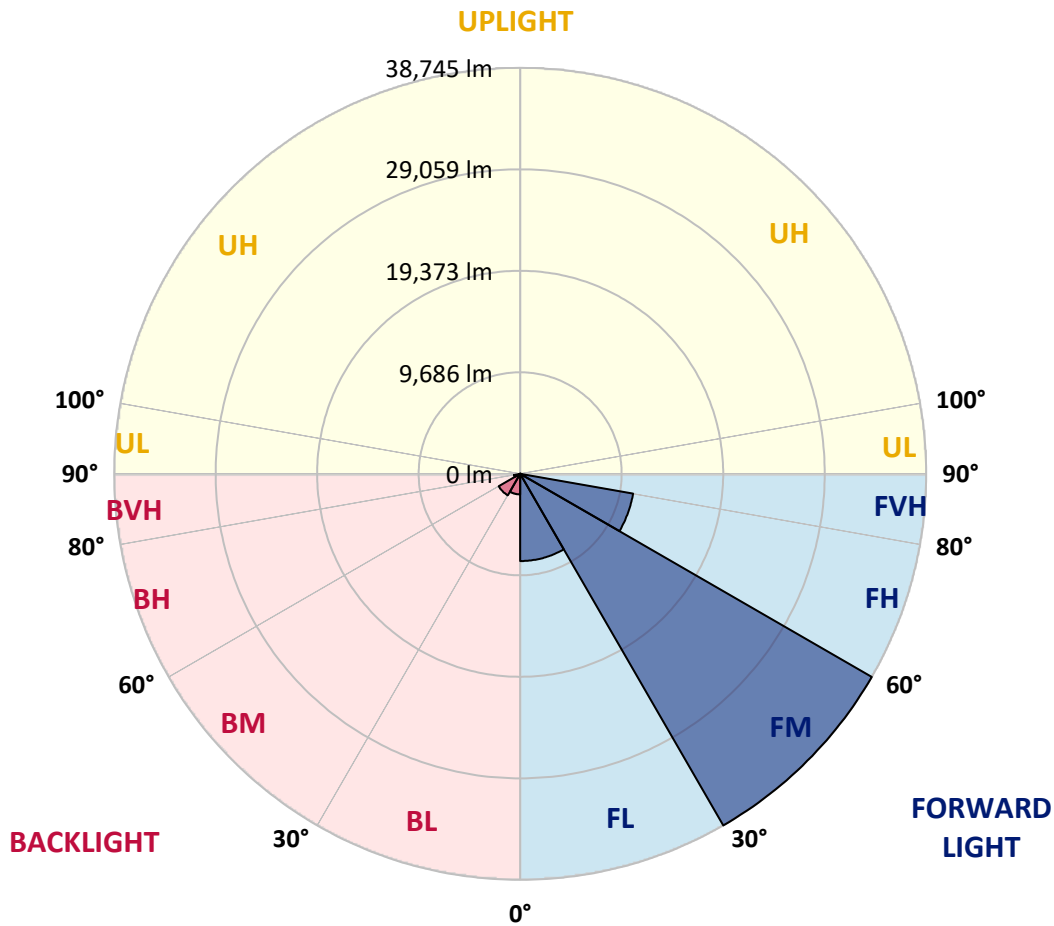
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8325.0	13.2			
FM (30°-60°)	38745.5	61.5			
FH (60°-80°)	10939.8	17.4			G4/12000
FVH (80°-90°)	107.6	0.2			G2/225
BL (0°-30°)	1965.5	3.1	B3/2500		
BM (30°-60°)	2364.5	3.8	B2/2500		
BH (60°-80°)	585.5	0.9	B2/1000		G2/1000
BVH (80°-90°)	7.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3
2.5°	18849.2	18612.1	18577.1	18530.5	18079.5	17741.4	17251.6	16715.1	16112.6	15498.4
5°	21776.3	21589.7	21554.7	21337.1	20823.9	20248.6	19377.9	18277.8	17154.4	15832.7
7.5°	22343.8	22308.9	22468.2	22460.5	22390.5	21935.7	21201.0	19891.0	18203.9	16244.8
10°	19813.3	19902.7	20376.9	20792.8	21916.2	22569.3	22409.9	21329.3	19284.6	16715.1
12.5°	17508.1	17403.2	17741.4	18211.7	19517.8	21461.4	22911.4	22530.4	20520.7	17247.7
15°	16062.1	16019.3	16209.8	16427.5	17422.6	19381.8	22328.3	23506.1	21710.2	17877.4
17.5°	15599.5	15564.5	15622.8	15677.2	16322.5	17838.5	20940.6	24104.8	22849.2	18596.5
20°	15976.5	15929.9	15922.1	15879.4	16147.6	17181.6	19685.0	24147.5	23871.5	19249.6
22.5°	17076.6	17022.2	16831.7	16660.7	16684.0	17271.0	19125.2	23719.9	24641.2	19859.9
25°	19070.8	18981.4	18584.9	18009.6	17644.2	17893.0	19210.7	23156.3	25375.9	20338.0
27.5°	21566.4	21449.8	20940.6	20085.4	19249.6	18946.4	19828.8	22767.6	25986.2	20703.4
30°	24011.5	23859.9	23358.4	22693.7	21473.1	20516.8	20944.4	22938.6	26713.1	21084.4
32.5°	26650.9	26507.1	25842.4	25018.3	24007.6	22720.9	22472.1	23774.3	27603.3	21616.9
35°	29990.0	29764.6	28820.0	27696.6	26623.7	25321.5	24540.1	25216.5	28788.9	22429.4
37.5°	33791.8	33488.6	32470.1	30919.1	29519.7	28062.0	27059.1	27199.0	30526.5	23517.8
40°	37375.8	37099.8	36159.1	34697.5	32940.5	31171.8	30102.8	29791.8	32924.9	24843.3
42.5°	39525.4	39276.7	38880.2	38262.1	36781.0	34977.4	33628.5	32956.0	35762.6	26429.3
45°	39645.9	39428.3	39960.8	40679.9	40388.4	39187.2	37542.9	36310.7	38611.9	27918.1
47.5°	37717.9	37570.2	39187.2	41698.4	42950.1	43455.4	41939.4	39385.5	40963.7	28987.1
50°	32462.3	32407.9	35735.4	40345.6	43925.8	47195.0	46576.9	42246.5	42786.8	29539.1
52.5°	28147.5	27949.2	29889.0	36015.3	42507.0	49161.9	51109.4	45053.1	44061.8	29644.1
55°	21348.7	21173.8	23607.2	28769.5	37931.7	48462.2	54425.2	47949.1	44975.3	29375.9
57.5°	11451.8	11343.0	14417.8	19148.5	29651.9	44264.0	55023.9	51012.2	45745.0	28664.5
60°	4458.7	4439.2	5589.8	9290.5	18021.2	36011.4	52003.5	52850.9	46227.0	27789.9
62.5°	2697.7	2756.1	2942.6	4171.0	7961.1	22371.1	45041.4	50759.6	46549.7	26989.1
65°	2231.3	2235.2	2258.5	2864.9	3813.4	9360.5	33908.4	43879.1	45752.8	25562.5
67.5°	1912.5	1947.5	2036.9	2274.0	2690.0	4104.9	19521.7	33990.0	40905.4	22242.8
70°	1508.2	1554.9	1667.6	1869.8	2075.8	2569.5	7214.7	22616.0	31249.5	16765.7
72.5°	1271.1	1267.2	1325.5	1519.9	1648.2	1807.6	2775.5	12672.4	18161.2	8003.8
75°	983.5	1022.3	1096.2	1271.1	1348.9	1310.0	1504.4	4629.7	6507.2	2425.6
77.5°	769.7	800.8	866.9	1037.9	1115.6	929.0	866.9	1656.0	2091.3	870.7
80°	346.0	373.2	590.9	765.8	909.6	641.4	470.4	847.4	929.0	396.5
82.5°	62.2	105.0	346.0	404.3	466.5	415.9	244.9	439.3	454.8	159.4
85°	3.9	7.8	120.5	147.7	186.6	136.1	73.9	174.9	151.6	54.4
87.5°	0.0	0.0	0.0	3.9	3.9	19.4	23.3	31.1	23.3	19.4
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°
15191.3	0°	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3	15191.3
15226.3	2.5°	14946.4	14394.4	13858.0	13418.7	13162.2	12726.8	12439.2	12392.5	12272.0	12377.0
15265.2	5°	14658.8	13671.4	12672.4	11778.3	11043.6	10095.2	9387.7	9088.4	8827.9	8917.3
15366.3	7.5°	14522.7	12963.9	11409.0	9881.4	8310.9	6794.9	5667.6	5197.2	4839.6	4890.1
15479.0	10°	14340.0	12229.3	9792.0	7459.6	5356.6	3860.0	3082.6	2794.9	2635.5	2639.4
15646.1	12.5°	14200.1	11350.7	7914.4	5057.3	3261.4	2464.5	2223.5	2153.5	2106.9	2110.8
15898.8	15°	14130.1	10316.7	6060.2	3370.2	2332.3	2087.4	2029.1	1998.0	1966.9	1963.1
16178.7	17.5°	14013.5	9166.1	4435.3	2460.6	2040.8	1955.3	1904.7	1869.8	1830.9	1823.1
16419.7	20°	13838.6	7860.0	3242.0	2079.7	1912.5	1846.4	1776.5	1729.8	1683.2	1675.4
16571.3	22.5°	13515.9	6480.0	2491.7	1924.2	1819.2	1745.4	1659.9	1605.4	1558.8	1551.0
16497.4	25°	12917.3	5185.6	2099.1	1827.0	1737.6	1648.2	1554.9	1481.0	1438.3	1430.5
16338.1	27.5°	12159.3	4073.8	1904.7	1737.6	1632.6	1551.0	1446.1	1376.1	1337.2	1329.4
16128.2	30°	11265.2	3137.0	1792.0	1636.5	1508.2	1438.3	1345.0	1286.7	1263.4	1263.4
15980.4	32.5°	10301.2	2507.3	1745.4	1535.5	1399.4	1321.7	1247.8	1224.5	1216.7	1212.8
16062.1	35°	9395.5	2176.9	1722.0	1453.8	1302.2	1228.4	1197.3	1201.2	1216.7	1216.7
16314.7	37.5°	8590.8	2071.9	1710.4	1395.5	1216.7	1150.6	1170.1	1205.0	1189.5	1189.5
16757.9	40°	7863.9	2083.6	1702.6	1352.8	1146.7	1107.9	1146.7	1119.5	1080.7	1076.8
17298.2	42.5°	7308.0	2180.7	1687.1	1317.8	1104.0	1076.8	1061.2	1018.5	1014.6	1022.3
17858.0	45°	6903.7	2266.3	1683.2	1302.2	1057.3	1006.8	987.4	944.6	1022.3	1041.8
18087.3	47.5°	6425.6	2266.3	1683.2	1247.8	979.6	960.1	929.0	882.4	960.1	979.6
17869.6	50°	5807.5	2122.4	1617.1	1185.6	917.4	905.7	851.3	793.0	777.4	789.1
17360.4	52.5°	5026.2	1862.0	1449.9	1100.1	855.2	831.9	765.8	723.0	711.4	711.4
16446.9	55°	4136.0	1558.8	1224.5	975.7	789.1	746.3	699.7	680.3	668.6	660.8
15168.0	57.5°	3362.5	1278.9	983.5	866.9	726.9	672.5	656.9	633.6	614.2	602.5
14099.0	60°	2759.9	1006.8	812.4	769.7	664.7	614.2	610.3	579.2	528.7	520.9
13216.6	62.5°	2130.2	738.6	684.2	668.6	602.5	559.8	552.0	489.8	412.0	396.5
11964.9	65°	1504.4	575.3	552.0	587.0	536.4	497.6	478.1	384.8	303.2	291.5
10013.5	67.5°	1057.3	482.0	435.4	513.1	466.5	415.9	404.3	326.5	252.7	244.9
7572.3	70°	754.1	392.6	357.6	439.3	373.2	365.4	342.1	272.1	206.0	198.2
3747.3	72.5°	532.6	299.3	276.0	380.9	256.6	314.9	279.9	209.9	155.5	147.7
1275.0	75°	392.6	213.8	194.4	221.6	186.6	237.1	198.2	139.9	97.2	93.3
575.3	77.5°	287.7	136.1	116.6	108.8	108.8	147.7	108.8	58.3	42.8	38.9
291.5	80°	202.1	62.2	54.4	46.6	42.8	35.0	15.5	7.8	3.9	3.9
101.1	82.5°	120.5	27.2	27.2	19.4	11.7	0.0	0.0	0.0	0.0	0.0
38.9	85°	27.2	11.7	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
15.5	87.5°	3.9	3.9	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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