

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: P955752

Luminaire Tested: **GALN-SB8C-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955752
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-SB8C-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 49388 lumens
Efficiency: N/A
Efficacy: 123.5 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

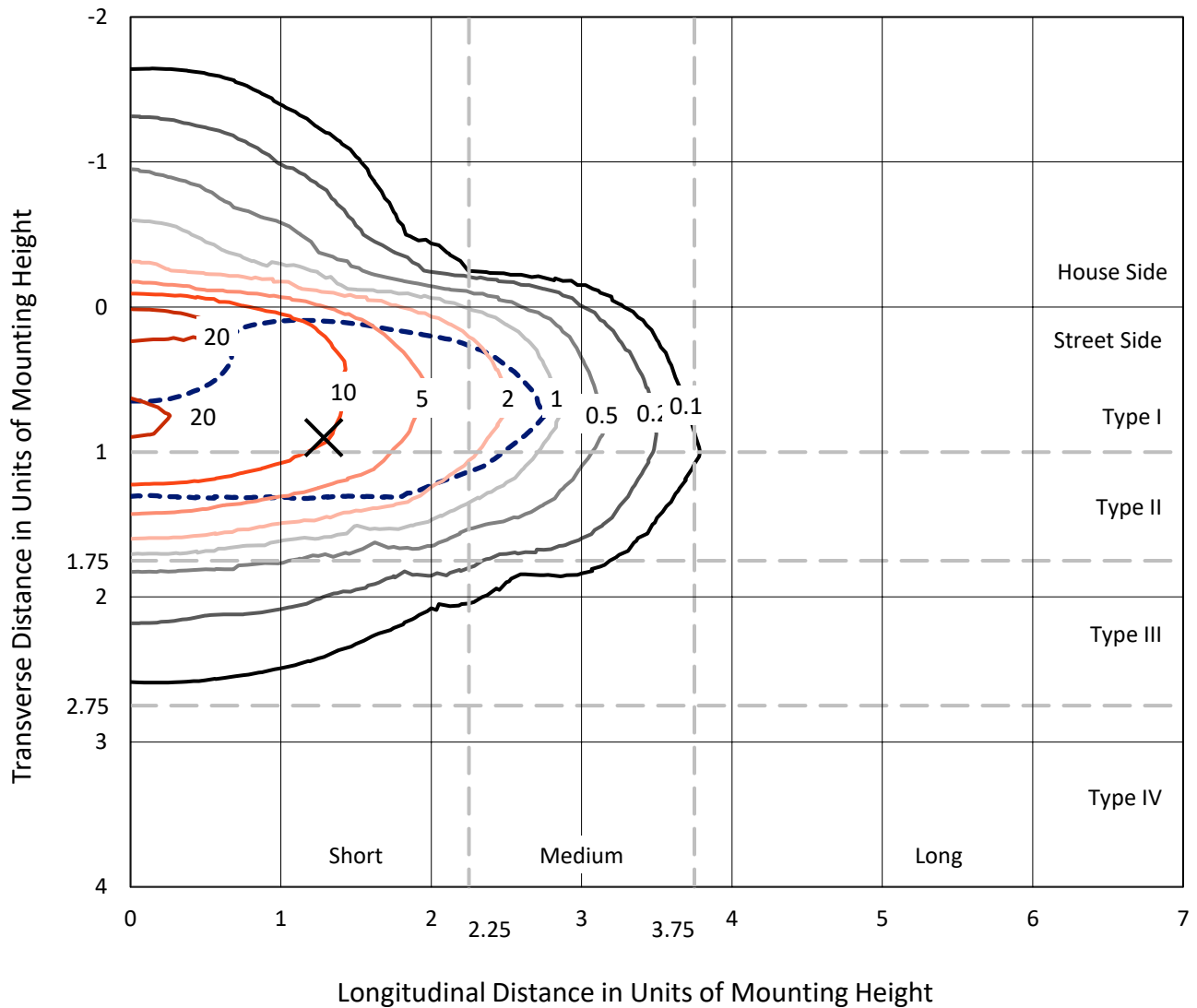
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955752
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Iso-Footcandle Lines of Horizontal Illumination

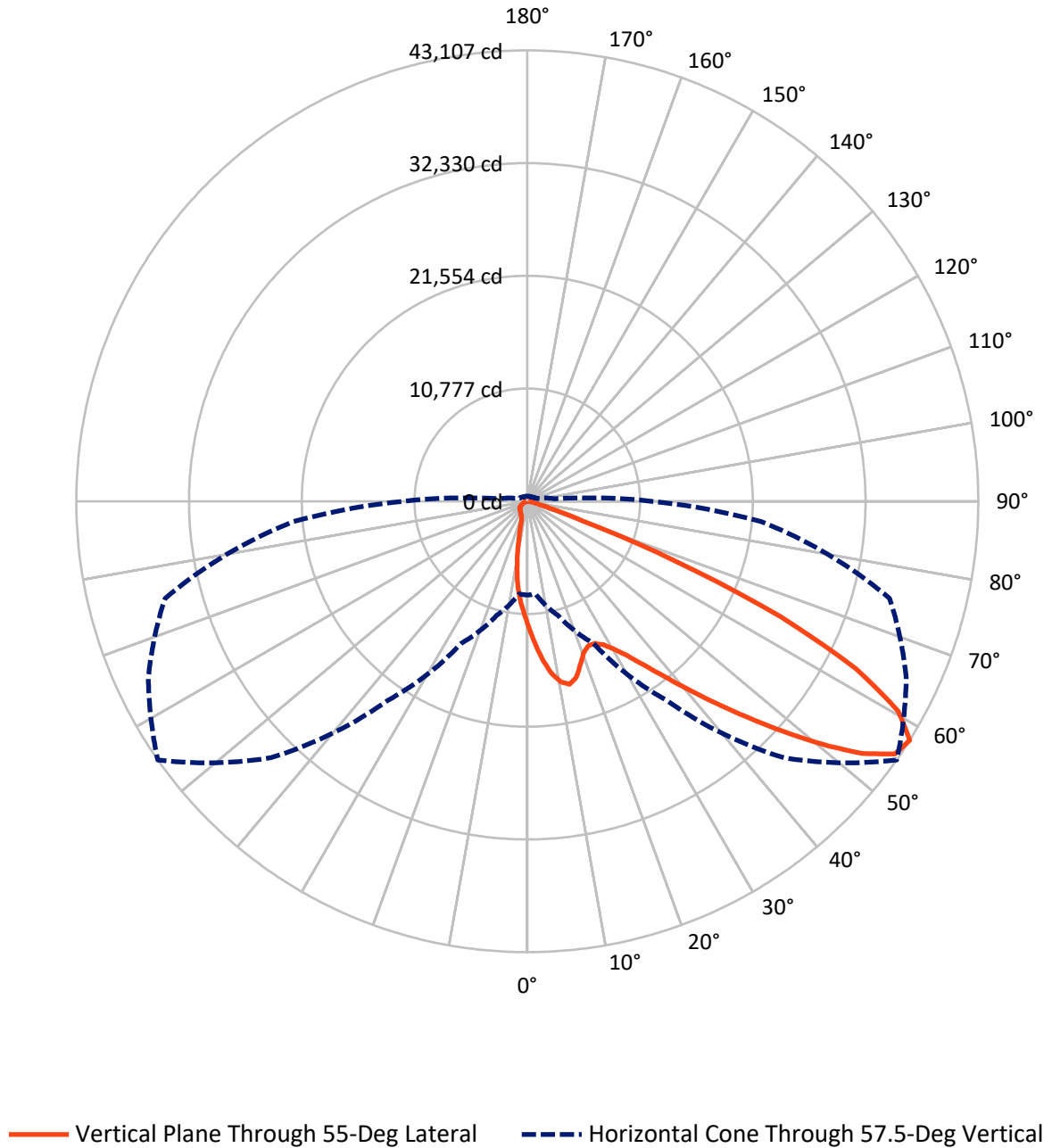
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.3 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	3857.0	0.0	3857.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	45531.0	0.0	45531.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	49388.0	0.0	49388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1107.3	2.2
10°-20°	2674.8	5.4
20°-30°	4279.7	8.7
30°-40°	7243.6	14.7
40°-50°	11892.4	24.1
50°-60°	13070.6	26.5
60°-70°	7497.3	15.2
70°-80°	1531.9	3.1
80°-90°	90.4	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°	49388.0	100.0
0°-180°	49388.0	100.0

Coefficient of Utilization



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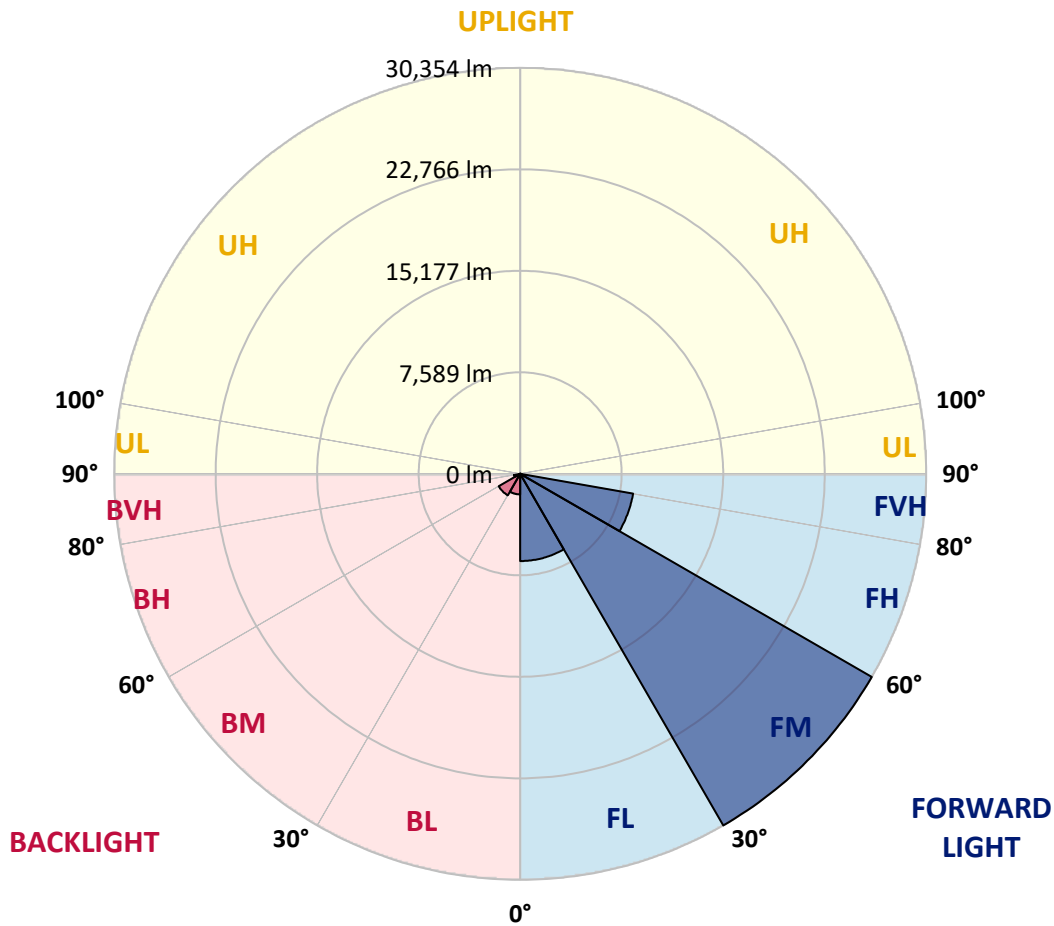
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6522.0	13.2			
FM (30°-60°)	30354.2	61.5			
FH (60°-80°)	8570.5	17.4			G4/12000
FVH (80°-90°)	84.3	0.2			G1/100
BL (0°-30°)	1539.8	3.1	B3/2500		
BM (30°-60°)	1852.4	3.8	B2/2500		
BH (60°-80°)	458.7	0.9	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



REPORT NUMBER: P955752
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3
2.5°	14767.0	14581.2	14553.8	14517.3	14164.0	13899.1	13515.3	13095.1	12623.0	12141.9
5°	17060.1	16914.0	16886.6	16716.0	16314.0	15863.3	15181.2	14319.3	13439.2	12403.8
7.5°	17504.8	17477.4	17602.2	17596.1	17541.3	17185.0	16609.4	15583.1	14261.4	12726.6
10°	15522.2	15592.3	15963.8	16289.7	17169.8	17681.4	17556.5	16709.9	15108.1	13095.1
12.5°	13716.3	13634.1	13899.1	14267.5	15290.8	16813.5	17949.4	17650.9	16076.5	13512.3
15°	12583.5	12550.0	12699.2	12869.7	13649.3	15184.2	17492.6	18415.3	17008.4	14005.6
17.5°	12221.1	12193.6	12239.3	12282.0	12787.5	13975.2	16405.4	18884.3	17900.7	14569.0
20°	12516.5	12479.9	12473.8	12440.3	12650.5	13460.5	15421.7	18917.8	18701.6	15080.7
22.5°	13378.3	13335.7	13186.4	13052.4	13070.7	13530.6	14983.2	18582.8	19304.6	15558.8
25°	14940.6	14870.5	14559.9	14109.2	13822.9	14017.8	15050.2	18141.2	19880.2	15933.4
27.5°	16895.7	16804.3	16405.4	15735.4	15080.7	14843.1	15534.4	17836.7	20358.3	16219.6
30°	18811.2	18692.5	18299.6	17778.8	16822.6	16073.4	16408.4	17970.7	20927.8	16518.1
32.5°	20879.0	20766.4	20245.6	19600.0	18808.2	17800.2	17605.3	18625.5	21625.1	16935.3
35°	23495.0	23318.4	22578.3	21698.2	20857.7	19837.5	19225.4	19755.3	22554.0	17571.8
37.5°	26473.4	26235.8	25437.9	24222.8	23126.5	21984.5	21198.8	21308.4	23915.3	18424.5
40°	29281.2	29065.0	28328.0	27182.9	25806.4	24420.8	23583.3	23339.7	25794.3	19462.9
42.5°	30965.3	30770.4	30459.8	29975.5	28815.3	27402.2	26345.5	25818.6	28017.4	20705.4
45°	31059.7	30889.1	31306.4	31869.8	31641.4	30700.3	29412.1	28446.8	30249.6	21871.8
47.5°	29549.2	29433.5	30700.3	32667.6	33648.3	34044.1	32856.5	30855.6	32092.1	22709.3
50°	25431.9	25389.2	27996.1	31607.9	34412.6	36973.8	36489.6	33097.0	33520.3	23141.7
52.5°	22051.5	21896.2	23415.8	28215.3	33301.1	38514.7	40040.5	35295.8	34519.2	23224.0
55°	16725.2	16588.1	18494.5	22538.8	29716.7	37966.6	42638.2	37564.6	35234.9	23013.8
57.5°	8971.6	8886.4	11295.3	15001.5	23230.1	34677.6	43107.2	39964.3	35837.9	22456.5
60°	3493.0	3477.8	4379.2	7278.4	14118.3	28212.3	40740.9	41404.8	36215.5	21771.3
62.5°	2113.5	2159.2	2305.3	3267.7	6236.9	17526.1	35286.7	39766.4	36468.3	21144.0
65°	1748.0	1751.1	1769.4	2244.4	2987.5	7333.2	26564.7	34376.1	35844.0	20026.3
67.5°	1498.3	1525.7	1595.8	1781.5	2107.4	3215.9	15293.8	26628.7	32046.4	17425.6
70°	1181.6	1218.1	1306.5	1464.8	1626.2	2013.0	5652.2	17717.9	24481.7	13134.7
72.5°	995.8	992.8	1038.5	1190.7	1291.2	1416.1	2174.4	9927.9	14228.0	6270.4
75°	770.5	800.9	858.8	995.8	1056.7	1026.3	1178.6	3627.0	5097.9	1900.3
77.5°	603.0	627.3	679.1	813.1	874.0	727.8	679.1	1297.3	1638.4	682.2
80°	271.0	292.4	462.9	599.9	712.6	502.5	368.5	663.9	727.8	310.6
82.5°	48.7	82.2	271.0	316.7	365.4	325.9	191.9	344.1	356.3	124.9
85°	3.0	6.1	94.4	115.7	146.2	106.6	57.9	137.0	118.8	42.6
87.5°	0.0	0.0	0.0	3.0	3.0	15.2	18.3	24.4	18.3	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955752
 CATALOG NUMBER: GALN-SB8C-840-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
11901.3	0°	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3	11901.3
11928.7	2.5°	11709.4	11277.0	10856.7	10512.6	10311.6	9970.5	9745.2	9708.6	9614.2	9696.4
11959.2	5°	11484.1	10710.6	9927.9	9227.5	8651.9	7908.8	7354.6	7120.1	6916.0	6986.1
12038.3	7.5°	11377.5	10156.3	8938.1	7741.3	6511.0	5323.3	4440.1	4071.7	3791.5	3831.1
12126.6	10°	11234.4	9580.7	7671.3	5844.1	4196.5	3024.0	2415.0	2189.6	2064.8	2067.8
12257.6	12.5°	11124.7	8892.5	6200.4	3962.0	2555.1	1930.8	1741.9	1687.1	1650.6	1653.6
12455.5	15°	11069.9	8082.4	4747.7	2640.3	1827.2	1635.4	1589.7	1565.3	1541.0	1537.9
12674.8	17.5°	10978.5	7181.0	3474.8	1927.7	1598.8	1531.8	1492.2	1464.8	1434.4	1428.3
12863.6	20°	10841.5	6157.7	2539.8	1629.3	1498.3	1446.5	1391.7	1355.2	1318.6	1312.6
12982.4	22.5°	10588.7	5076.6	1952.1	1507.5	1425.2	1367.4	1300.4	1257.7	1221.2	1215.1
12924.5	25°	10119.8	4062.5	1644.5	1431.3	1361.3	1291.2	1218.1	1160.3	1126.8	1120.7
12799.7	27.5°	9525.9	3191.5	1492.2	1361.3	1279.1	1215.1	1132.9	1078.1	1047.6	1041.5
12635.2	30°	8825.5	2457.6	1403.9	1282.1	1181.6	1126.8	1053.7	1008.0	989.7	989.7
12519.5	32.5°	8070.2	1964.3	1367.4	1202.9	1096.3	1035.4	977.6	959.3	953.2	950.2
12583.5	35°	7360.6	1705.4	1349.1	1139.0	1020.2	962.3	938.0	941.0	953.2	953.2
12781.4	37.5°	6730.3	1623.2	1340.0	1093.3	953.2	901.4	916.7	944.1	931.9	931.9
13128.6	40°	6160.8	1632.3	1333.9	1059.8	898.4	867.9	898.4	877.1	846.6	843.6
13551.9	42.5°	5725.3	1708.5	1321.7	1032.4	864.9	843.6	831.4	797.9	794.8	800.9
13990.4	45°	5408.6	1775.4	1318.6	1020.2	828.3	788.7	773.5	740.0	800.9	816.2
14170.1	47.5°	5034.0	1775.4	1318.6	977.6	767.4	752.2	727.8	691.3	752.2	767.4
13999.5	50°	4549.8	1662.8	1266.9	928.8	718.7	709.6	666.9	621.3	609.1	618.2
13600.6	52.5°	3937.7	1458.7	1135.9	861.8	670.0	651.7	599.9	566.4	557.3	557.3
12884.9	55°	3240.3	1221.2	959.3	764.4	618.2	584.7	548.2	532.9	523.8	517.7
11883.0	57.5°	2634.2	1001.9	770.5	679.1	569.5	526.8	514.7	496.4	481.2	472.0
11045.5	60°	2162.2	788.7	636.5	603.0	520.8	481.2	478.1	453.8	414.2	408.1
10354.2	62.5°	1668.9	578.6	536.0	523.8	472.0	438.5	432.4	383.7	322.8	310.6
9373.6	65°	1178.6	450.7	432.4	459.9	420.3	389.8	374.6	301.5	237.5	228.4
7844.9	67.5°	828.3	377.6	341.1	402.0	365.4	325.9	316.7	255.8	197.9	191.9
5932.4	70°	590.8	307.6	280.2	344.1	292.4	286.3	268.0	213.2	161.4	155.3
2935.7	72.5°	417.2	234.5	216.2	298.4	201.0	246.7	219.3	164.4	121.8	115.7
998.9	75°	307.6	167.5	152.3	173.6	146.2	185.8	155.3	109.6	76.1	73.1
450.7	77.5°	225.4	106.6	91.4	85.3	85.3	115.7	85.3	45.7	33.5	30.5
228.4	80°	158.4	48.7	42.6	36.5	33.5	27.4	12.2	6.1	3.0	3.0
79.2	82.5°	94.4	21.3	21.3	15.2	9.1	0.0	0.0	0.0	0.0	0.0
30.5	85°	21.3	9.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
12.2	87.5°	3.0	3.0	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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