

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: P956739

Luminaire Tested: **GALN-SB9B-760-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956739
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-SB9B-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 450mA 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: 46266 lumens
Efficiency: N/A
Efficacy: 140.4 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

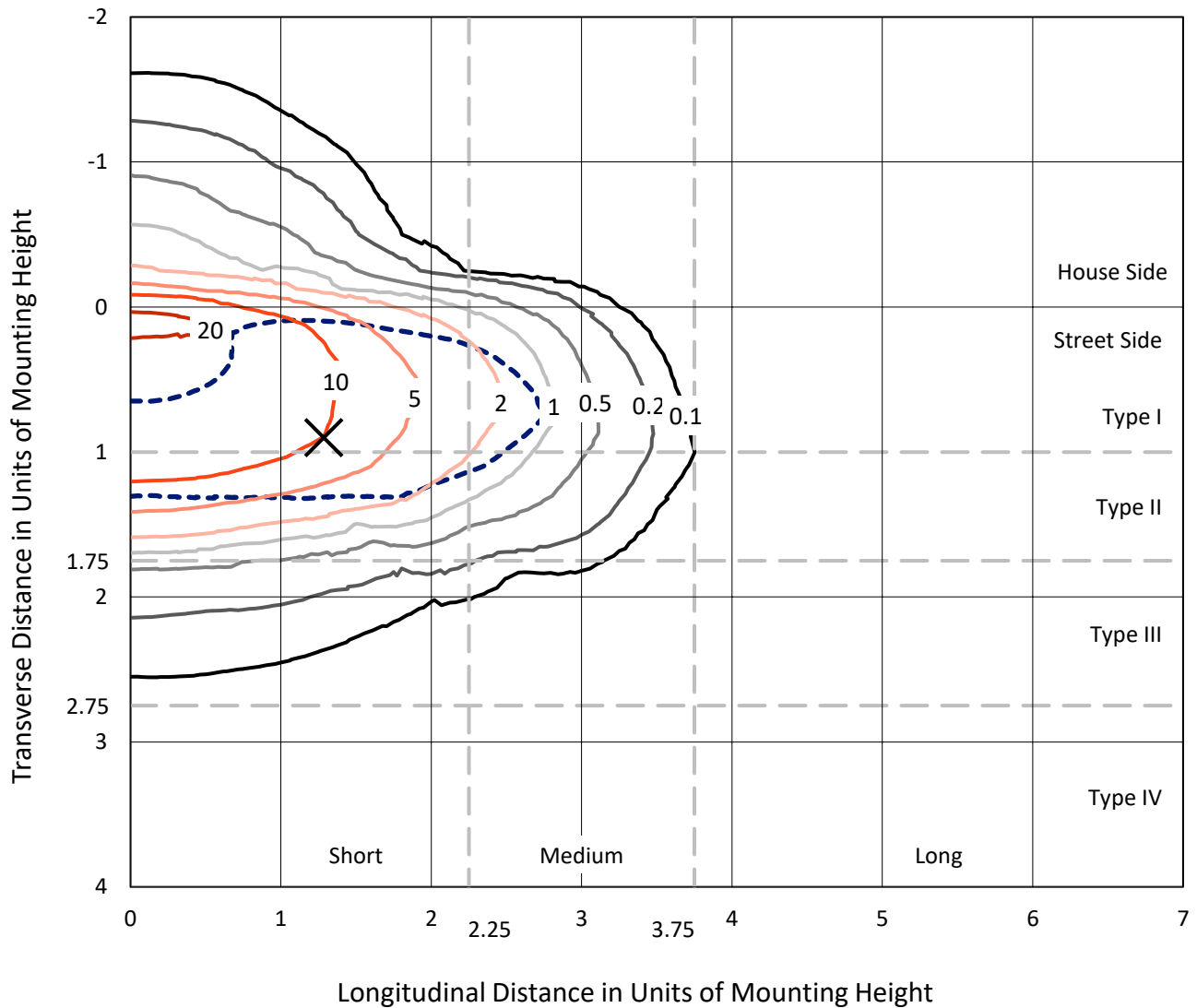
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

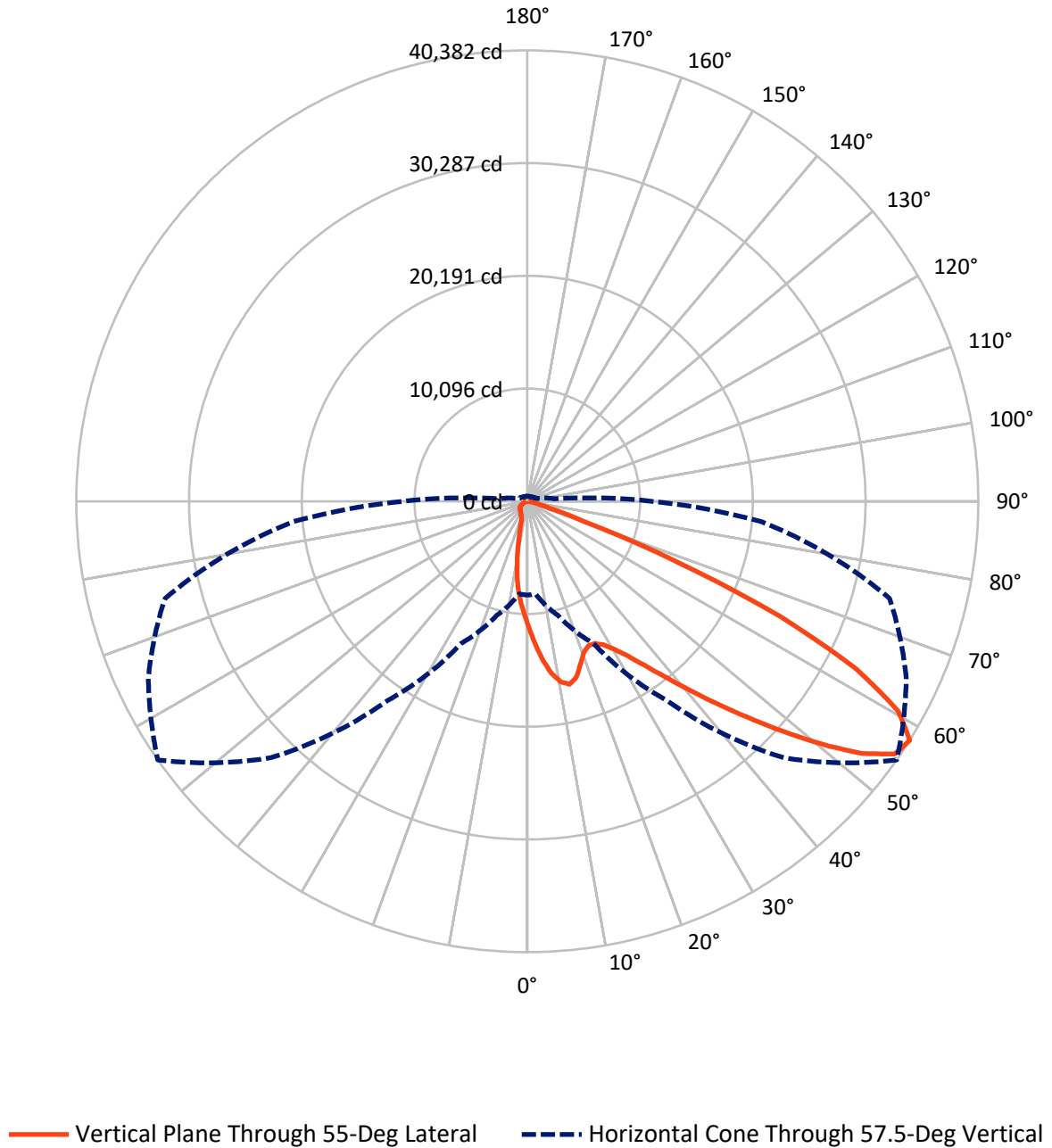
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 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	3613.2	0.0	3613.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	42652.8	0.0	42652.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	46266.0	0.0	46266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.3	2.2
10°-20°	2505.7	5.4
20°-30°	4009.1	8.7
30°-40°	6785.7	14.7
40°-50°	11140.7	24.1
50°-60°	12244.4	26.5
60°-70°	7023.4	15.2
70°-80°	1435.1	3.1
80°-90°	84.7	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°	46266.0	100.0
0°-180°	46266.0	100.0

Coefficient of Utilization



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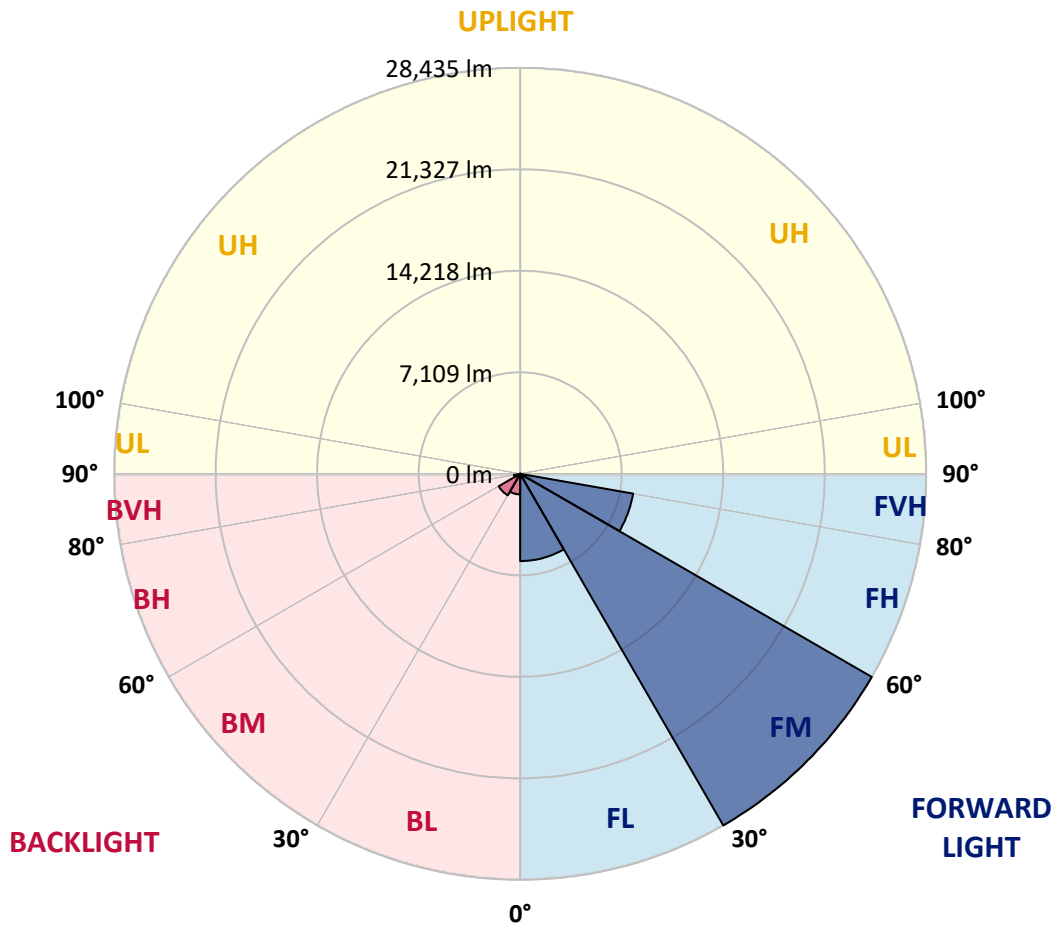
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6109.7	13.2			
FM (30°-60°)	28435.4	61.5			
FH (60°-80°)	8028.7	17.4			G4/12000
FVH (80°-90°)	78.9	0.2			G1/100
BL (0°-30°)	1442.5	3.1	B3/2500		
BM (30°-60°)	1735.3	3.8	B2/2500		
BH (60°-80°)	429.7	0.9	B1/500		G1/500
BVH (80°-90°)	5.7	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°	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0
2.5°	13833.5	13659.5	13633.8	13599.6	13268.6	13020.4	12661.0	12267.3	11825.1	11374.3
5°	15981.7	15844.8	15819.1	15659.3	15282.8	14860.5	14221.5	13414.1	12589.7	11619.7
7.5°	16398.2	16372.5	16489.5	16483.8	16432.5	16098.7	15559.5	14598.1	13359.9	11922.1
10°	14541.0	14606.6	14954.7	15259.9	16084.4	16563.7	16446.7	15653.6	14153.0	12267.3
12.5°	12849.3	12772.2	13020.4	13365.6	14324.2	15750.6	16814.7	16535.2	15060.2	12658.1
15°	11788.0	11756.6	11896.4	12056.2	12786.5	14224.3	16386.8	17251.2	15933.2	13120.3
17.5°	11448.5	11422.8	11465.6	11505.6	11979.1	13091.8	15368.3	17690.6	16769.1	13648.1
20°	11725.2	11691.0	11685.3	11653.9	11850.8	12609.6	14446.9	17721.9	17519.4	14127.3
22.5°	12532.6	12492.7	12352.9	12227.3	12244.5	12675.2	14036.1	17408.1	18084.3	14575.2
25°	13996.1	13930.5	13639.5	13217.3	12949.1	13131.7	14098.8	16994.5	18623.5	14926.1
27.5°	15827.7	15742.1	15368.3	14740.7	14127.3	13904.8	14552.4	16709.2	19071.4	15194.3
30°	17622.1	17510.8	17142.8	16655.0	15759.2	15057.4	15371.2	16834.7	19604.8	15473.9
32.5°	19559.2	19453.6	18965.8	18361.0	17619.2	16675.0	16492.4	17448.1	20258.1	15864.7
35°	22009.8	21844.3	21151.1	20326.6	19539.2	18583.5	18010.1	18506.5	21128.3	16461.0
37.5°	24799.9	24577.4	23829.9	22691.6	21664.6	20594.8	19858.7	19961.4	22403.5	17259.8
40°	27430.2	27227.7	26537.3	25464.6	24175.1	22877.1	22092.5	21864.3	24163.7	18232.6
42.5°	29007.9	28825.3	28534.3	28080.7	26993.7	25670.0	24680.1	24186.5	26246.3	19396.6
45°	29096.3	28936.5	29327.4	29855.2	29641.2	28759.7	27552.9	26648.5	28337.4	20489.2
47.5°	27681.3	27572.9	28759.7	30602.6	31521.2	31892.1	30779.5	28905.1	30063.4	21273.8
50°	23824.2	23784.3	26226.3	29609.8	32237.3	34636.5	34182.9	31004.9	31401.4	21678.9
52.5°	20657.5	20512.0	21935.6	26431.7	31196.0	36080.1	37509.4	33064.6	32337.1	21755.9
55°	15667.9	15539.5	17325.4	21114.0	27838.2	35566.6	39942.9	35190.0	33007.6	21559.0
57.5°	8404.5	8324.6	10581.2	14053.2	21761.6	32485.5	40382.2	37438.0	33572.4	21037.0
60°	3272.2	3258.0	4102.4	6818.3	13225.8	26428.9	38165.5	38787.4	33926.2	20395.1
62.5°	1979.9	2022.7	2159.6	3061.1	5842.7	16418.2	33056.1	37252.6	34163.0	19807.4
65°	1637.5	1640.4	1657.5	2102.6	2798.7	6869.7	24885.5	32203.1	33578.1	18760.4
67.5°	1403.6	1429.3	1494.9	1668.9	1974.2	3012.6	14327.0	24945.4	30020.6	16324.0
70°	1106.9	1141.1	1223.9	1372.2	1523.4	1885.7	5294.9	16597.9	22934.1	12304.4
72.5°	932.9	930.0	972.8	1115.5	1209.6	1326.6	2036.9	9300.3	13328.5	5874.0
75°	721.8	750.3	804.5	932.9	989.9	961.4	1104.1	3397.8	4775.7	1780.2
77.5°	564.9	587.7	636.2	761.7	818.8	681.8	636.2	1215.3	1534.8	639.0
80°	253.9	273.9	433.6	562.0	667.6	470.7	345.2	621.9	681.8	291.0
82.5°	45.6	77.0	253.9	296.7	342.3	305.3	179.7	322.4	333.8	117.0
85°	2.9	5.7	88.4	108.4	136.9	99.9	54.2	128.4	111.3	39.9
87.5°	0.0	0.0	0.0	2.9	2.9	14.3	17.1	22.8	17.1	14.3
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°
11149.0	0°	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0	11149.0
11174.6	2.5°	10969.2	10564.1	10170.4	9848.1	9659.8	9340.3	9129.1	9094.9	9006.5	9083.5
11203.2	5°	10758.1	10033.5	9300.3	8644.2	8105.0	7408.9	6889.7	6670.0	6478.8	6544.5
11277.3	7.5°	10658.3	9514.3	8373.1	7252.0	6099.4	4986.8	4159.5	3814.3	3551.8	3588.9
11360.1	10°	10524.2	8975.1	7186.3	5474.6	3931.2	2832.9	2262.3	2051.2	1934.2	1937.1
11482.8	12.5°	10421.5	8330.3	5808.4	3711.6	2393.5	1808.7	1631.8	1580.5	1546.2	1549.1
11668.2	15°	10370.1	7571.5	4447.6	2473.4	1711.7	1532.0	1489.2	1466.4	1443.5	1440.7
11873.6	17.5°	10284.6	6727.0	3255.1	1805.9	1497.8	1435.0	1397.9	1372.2	1343.7	1338.0
12050.5	20°	10156.2	5768.5	2379.3	1526.3	1403.6	1355.1	1303.8	1269.5	1235.3	1229.6
12161.7	22.5°	9919.4	4755.7	1828.7	1412.2	1335.1	1280.9	1218.2	1178.2	1144.0	1138.3
12107.5	25°	9480.0	3805.7	1540.5	1340.8	1275.2	1209.6	1141.1	1086.9	1055.6	1049.9
11990.6	27.5°	8923.7	2989.8	1397.9	1275.2	1198.2	1138.3	1061.3	1009.9	981.4	975.7
11836.5	30°	8267.6	2302.3	1315.2	1201.1	1106.9	1055.6	987.1	944.3	927.2	927.2
11728.1	32.5°	7560.1	1840.1	1280.9	1126.9	1027.0	970.0	915.8	898.7	892.9	890.1
11788.0	35°	6895.4	1597.6	1263.8	1067.0	955.7	901.5	878.7	881.5	892.9	892.9
11973.4	37.5°	6304.8	1520.6	1255.3	1024.2	892.9	844.4	858.7	884.4	873.0	873.0
12298.7	40°	5771.3	1529.1	1249.6	992.8	841.6	813.1	841.6	821.6	793.1	790.2
12695.2	42.5°	5363.4	1600.5	1238.1	967.1	810.2	790.2	778.8	747.4	744.6	750.3
13106.0	45°	5066.7	1663.2	1235.3	955.7	776.0	738.9	724.6	693.2	750.3	764.6
13274.3	47.5°	4715.8	1663.2	1235.3	915.8	718.9	704.7	681.8	647.6	704.7	718.9
13114.6	50°	4262.2	1557.7	1186.8	870.1	673.3	664.7	624.8	582.0	570.6	579.1
12740.9	52.5°	3688.7	1366.5	1064.1	807.4	627.6	610.5	562.0	530.6	522.1	522.1
12070.4	55°	3035.4	1144.0	898.7	716.1	579.1	547.7	513.5	499.3	490.7	485.0
11131.8	57.5°	2467.7	938.6	721.8	636.2	533.5	493.5	482.1	465.0	450.8	442.2
10347.3	60°	2025.5	738.9	596.2	564.9	487.8	450.8	447.9	425.1	388.0	382.3
9699.7	62.5°	1563.4	542.0	502.1	490.7	442.2	410.8	405.1	359.5	302.4	291.0
8781.1	65°	1104.1	422.2	405.1	430.8	393.7	365.2	350.9	282.4	222.5	214.0
7349.0	67.5°	776.0	353.8	319.5	376.6	342.3	305.3	296.7	239.6	185.4	179.7
5557.4	70°	553.5	288.1	262.5	322.4	273.9	268.2	251.1	199.7	151.2	145.5
2750.2	72.5°	390.8	219.7	202.6	279.6	188.3	231.1	205.4	154.1	114.1	108.4
935.7	75°	288.1	156.9	142.6	162.6	136.9	174.0	145.5	102.7	71.3	68.5
422.2	77.5°	211.1	99.9	85.6	79.9	79.9	108.4	79.9	42.8	31.4	28.5
214.0	80°	148.3	45.6	39.9	34.2	31.4	25.7	11.4	5.7	2.9	2.9
74.2	82.5°	88.4	20.0	20.0	14.3	8.6	0.0	0.0	0.0	0.0	0.0
28.5	85°	20.0	8.6	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
11.4	87.5°	2.9	2.9	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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