

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: P957054

Luminaire Tested: **GALN-SB9C-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957054
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-SB9C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 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: 61532 lumens
Efficiency: N/A
Efficacy: 136.8 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

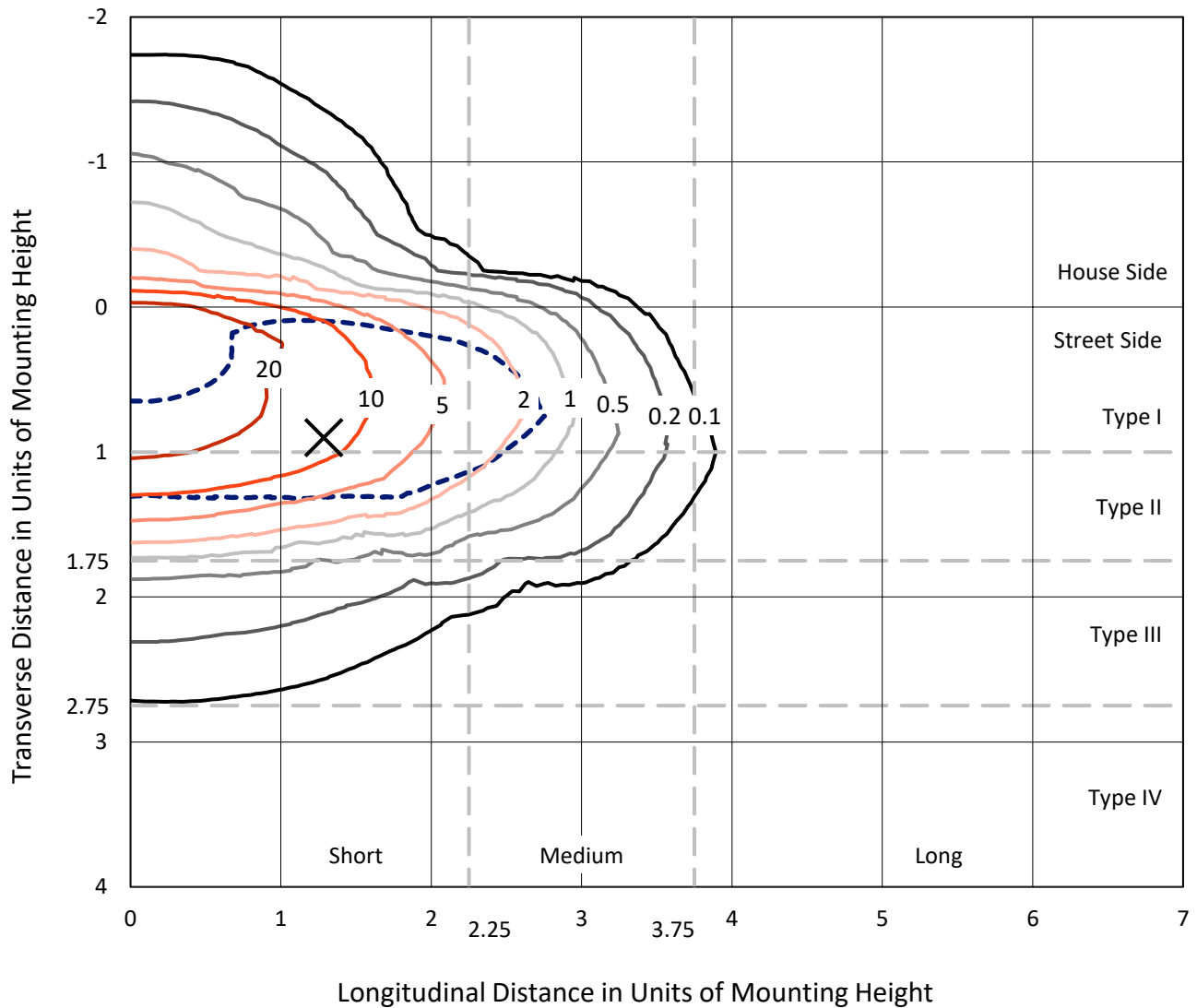
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

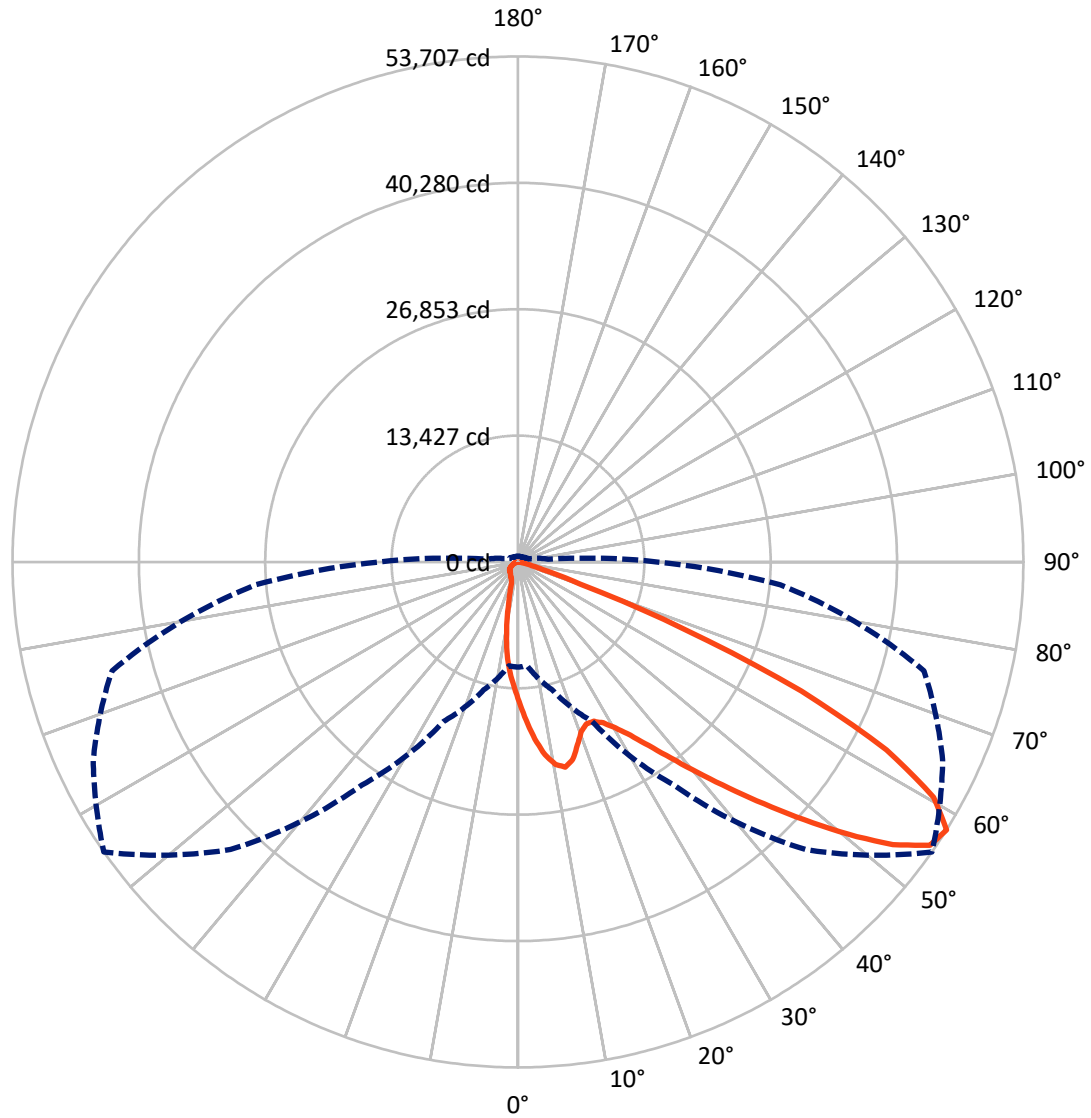
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4805.4	0.0	4805.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	56726.6	0.0	56726.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	61532.0	0.0	61532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1379.6	2.2
10°-20°	3332.5	5.4
20°-30°	5332.0	8.7
30°-40°	9024.7	14.7
40°-50°	14816.6	24.1
50°-60°	16284.5	26.5
60°-70°	9340.8	15.2
70°-80°	1908.6	3.1
80°-90°	112.6	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°	61532.0	100.0
0°-180°	61532.0	100.0

Coefficient of Utilization



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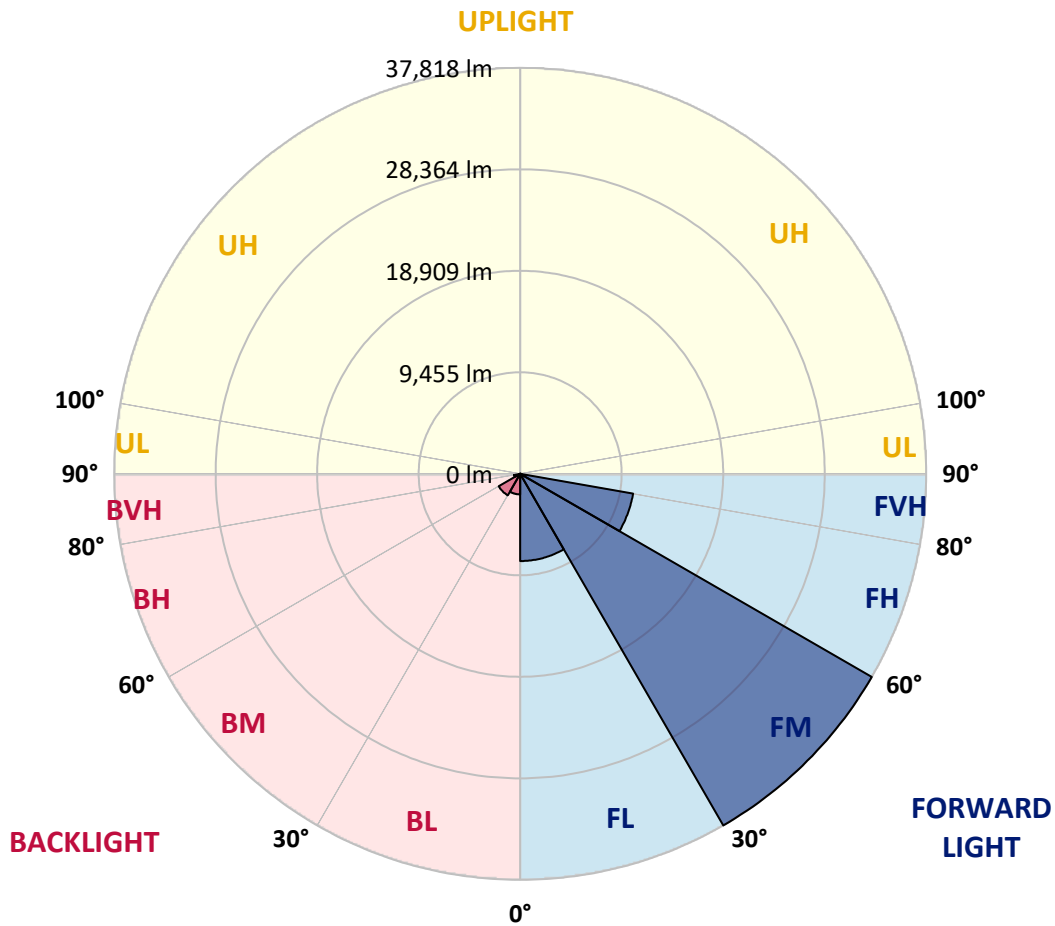
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8125.7	13.2			
FM (30°-60°)	37818.0	61.5			
FH (60°-80°)	10677.9	17.4			G4/12000
FVH (80°-90°)	105.0	0.2			G2/225
BL (0°-30°)	1918.4	3.1	B3/2500		
BM (30°-60°)	2307.9	3.8	B2/2500		
BH (60°-80°)	571.5	0.9	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7
2.5°	18398.0	18166.6	18132.4	18086.9	17646.8	17316.7	16838.6	16315.0	15726.9	15127.4
5°	21255.1	21072.9	21038.8	20826.3	20325.5	19763.9	18914.0	17840.3	16743.8	15453.7
7.5°	21809.0	21774.9	21930.4	21922.8	21854.5	21410.6	20693.5	19414.9	17768.2	15855.9
10°	19339.0	19426.3	19889.1	20295.1	21391.6	22029.1	21873.5	20818.7	18823.0	16315.0
12.5°	17089.0	16986.6	17316.7	17775.8	19050.6	20947.7	22363.0	21991.1	20029.5	16834.8
15°	15677.6	15635.9	15821.8	16034.2	17005.6	18917.8	21793.8	22943.5	21190.6	17449.5
17.5°	15226.1	15191.9	15248.9	15302.0	15931.8	17411.5	20439.3	23527.8	22302.3	18151.4
20°	15594.1	15548.6	15541.0	15499.3	15761.1	16770.3	19213.8	23569.5	23300.1	18788.8
22.5°	16667.9	16614.8	16428.8	16261.9	16284.7	16857.6	18667.4	23152.1	24051.4	19384.5
25°	18614.3	18527.0	18140.0	17578.5	17221.8	17464.7	18750.9	22602.0	24768.5	19851.2
27.5°	21050.2	20936.3	20439.3	19604.6	18788.8	18492.9	19354.2	22222.6	25364.2	20207.9
30°	23436.7	23288.7	22799.3	22150.5	20959.1	20025.7	20443.1	22389.5	26073.7	20579.7
32.5°	26013.0	25872.6	25223.8	24419.4	23432.9	22177.0	21934.2	23205.3	26942.5	21099.5
35°	29272.2	29052.1	28130.1	27033.6	25986.4	24715.4	23952.7	24612.9	28099.8	21892.5
37.5°	32982.9	32686.9	31692.9	30179.0	28813.1	27390.3	26411.4	26547.9	29795.8	22954.9
40°	36481.1	36211.8	35293.6	33866.9	32152.0	30425.6	29382.2	29078.7	32136.8	24248.7
42.5°	38579.3	38336.5	37949.5	37346.2	35900.6	34140.1	32823.5	32167.1	34906.6	25796.7
45°	38696.9	38484.5	39004.3	39706.2	39421.6	38249.2	36644.3	35441.5	37687.7	27249.9
47.5°	36815.0	36670.8	38249.2	40700.3	41922.0	42415.3	40935.5	38442.7	39983.2	28293.3
50°	31685.3	31632.2	34880.0	39379.9	42874.3	46065.3	45462.0	41235.3	41762.7	28832.1
52.5°	27473.7	27280.2	29173.5	35153.2	41489.5	47985.1	49886.0	43974.7	43007.1	28934.5
55°	20837.7	20667.0	23042.1	28080.8	37023.7	47302.2	53122.5	46801.3	43898.8	28672.7
57.5°	11177.7	11071.4	14072.7	18690.2	28942.1	43204.4	53706.8	49791.2	44650.0	27978.4
60°	4351.9	4333.0	5456.0	9068.1	17589.9	35149.4	50758.7	51585.8	45120.5	27124.7
62.5°	2633.2	2690.1	2872.2	4071.2	7770.5	21835.6	43963.3	49544.5	45435.4	26343.1
65°	2177.9	2181.7	2204.4	2796.3	3722.1	9136.4	33096.7	42828.8	44657.6	24950.6
67.5°	1866.7	1900.9	1988.2	2219.6	2625.6	4006.7	19054.4	33176.4	39926.3	21710.4
70°	1472.1	1517.7	1627.7	1825.0	2026.1	2508.0	7042.0	22074.6	30501.5	16364.3
72.5°	1240.7	1236.9	1293.8	1483.5	1608.7	1764.3	2709.1	12369.1	17726.5	7812.2
75°	959.9	997.9	1070.0	1240.7	1316.6	1278.6	1468.4	4518.9	6351.5	2367.6
77.5°	751.2	781.6	846.1	1013.0	1088.9	906.8	846.1	1616.3	2041.3	849.9
80°	337.7	364.2	576.7	747.5	887.8	626.0	459.1	827.1	906.8	387.0
82.5°	60.7	102.4	337.7	394.6	455.3	406.0	239.0	428.7	443.9	155.6
85°	3.8	7.6	117.6	144.2	182.1	132.8	72.1	170.7	148.0	53.1
87.5°	0.0	0.0	0.0	3.8	3.8	19.0	22.8	30.4	22.8	19.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
14827.7	0°	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7	14827.7
14861.8	2.5°	14588.7	14049.9	13526.3	13097.5	12847.1	12422.2	12141.4	12095.9	11978.3	12080.7
14899.8	5°	14307.9	13344.2	12369.1	11496.4	10779.3	9853.5	9163.0	8870.8	8616.6	8703.9
14998.4	7.5°	14175.1	12653.6	11135.9	9644.8	8112.0	6632.2	5531.9	5072.8	4723.8	4773.1
15108.5	10°	13996.8	11936.5	9557.6	7281.1	5228.4	3767.6	3008.8	2728.0	2572.5	2576.3
15271.6	12.5°	13860.2	11079.0	7725.0	4936.2	3183.3	2405.5	2170.3	2102.0	2056.5	2060.2
15518.2	15°	13791.9	10069.8	5915.1	3289.6	2276.5	2037.5	1980.6	1950.2	1919.9	1916.1
15791.4	17.5°	13678.1	8946.7	4329.2	2401.7	1991.9	1908.5	1859.2	1825.0	1787.1	1779.5
16026.7	20°	13507.3	7671.9	3164.4	2029.9	1866.7	1802.2	1733.9	1688.4	1642.9	1635.3
16174.6	22.5°	13192.4	6324.9	2432.1	1878.1	1775.7	1703.6	1620.1	1567.0	1521.5	1513.9
16102.5	25°	12608.1	5061.4	2048.9	1783.3	1696.0	1608.7	1517.7	1445.6	1403.9	1396.3
15947.0	27.5°	11868.2	3976.3	1859.2	1696.0	1593.6	1513.9	1411.4	1343.1	1305.2	1297.6
15742.1	30°	10995.6	3061.9	1749.1	1597.4	1472.1	1403.9	1312.8	1255.9	1233.1	1233.1
15597.9	32.5°	10054.6	2447.3	1703.6	1498.7	1365.9	1290.0	1217.9	1195.2	1187.6	1183.8
15677.6	35°	9170.6	2124.7	1680.8	1419.0	1271.1	1199.0	1168.6	1172.4	1187.6	1187.6
15924.2	37.5°	8385.2	2022.3	1669.4	1362.1	1187.6	1123.1	1142.1	1176.2	1161.0	1161.0
16356.8	40°	7675.6	2033.7	1661.9	1320.4	1119.3	1081.3	1119.3	1092.7	1054.8	1051.0
16884.1	42.5°	7133.1	2128.5	1646.7	1286.2	1077.6	1051.0	1035.8	994.1	990.3	997.9
17430.5	45°	6738.5	2212.0	1642.9	1271.1	1032.0	982.7	963.7	922.0	997.9	1016.8
17654.4	47.5°	6271.8	2212.0	1642.9	1217.9	956.1	937.2	906.8	861.3	937.2	956.1
17441.9	50°	5668.5	2071.6	1578.4	1157.2	895.4	884.0	830.9	774.0	758.8	770.2
16944.9	52.5°	4905.9	1817.4	1415.2	1073.8	834.7	812.0	747.5	705.7	694.3	694.3
16053.2	55°	4037.0	1521.5	1195.2	952.3	770.2	728.5	683.0	664.0	652.6	645.0
14804.9	57.5°	3282.0	1248.3	959.9	846.1	709.5	656.4	641.2	618.5	599.5	588.1
13761.5	60°	2693.9	982.7	793.0	751.2	648.8	599.5	595.7	565.3	516.0	508.4
12900.2	62.5°	2079.2	720.9	667.8	652.6	588.1	546.4	538.8	478.1	402.2	387.0
11678.5	65°	1468.4	561.5	538.8	572.9	523.6	485.7	466.7	375.6	295.9	284.6
9773.8	67.5°	1032.0	470.5	424.9	500.8	455.3	406.0	394.6	318.7	246.6	239.0
7391.1	70°	736.1	383.2	349.1	428.7	364.2	356.7	333.9	265.6	201.1	193.5
3657.6	72.5°	519.8	292.2	269.4	371.8	250.4	307.3	273.2	204.9	151.8	144.2
1244.5	75°	383.2	208.7	189.7	216.3	182.1	231.4	193.5	136.6	94.9	91.1
561.5	77.5°	280.8	132.8	113.8	106.2	106.2	144.2	106.2	56.9	41.7	37.9
284.6	80°	197.3	60.7	53.1	45.5	41.7	34.1	15.2	7.6	3.8	3.8
98.6	82.5°	117.6	26.6	26.6	19.0	11.4	0.0	0.0	0.0	0.0	0.0
37.9	85°	26.6	11.4	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
15.2	87.5°	3.8	3.8	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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