

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: P954681

Luminaire Tested: **GALN-SB7D-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954681
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-SB7D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 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: 59020 lumens
Efficiency: N/A
Efficacy: 115.1 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

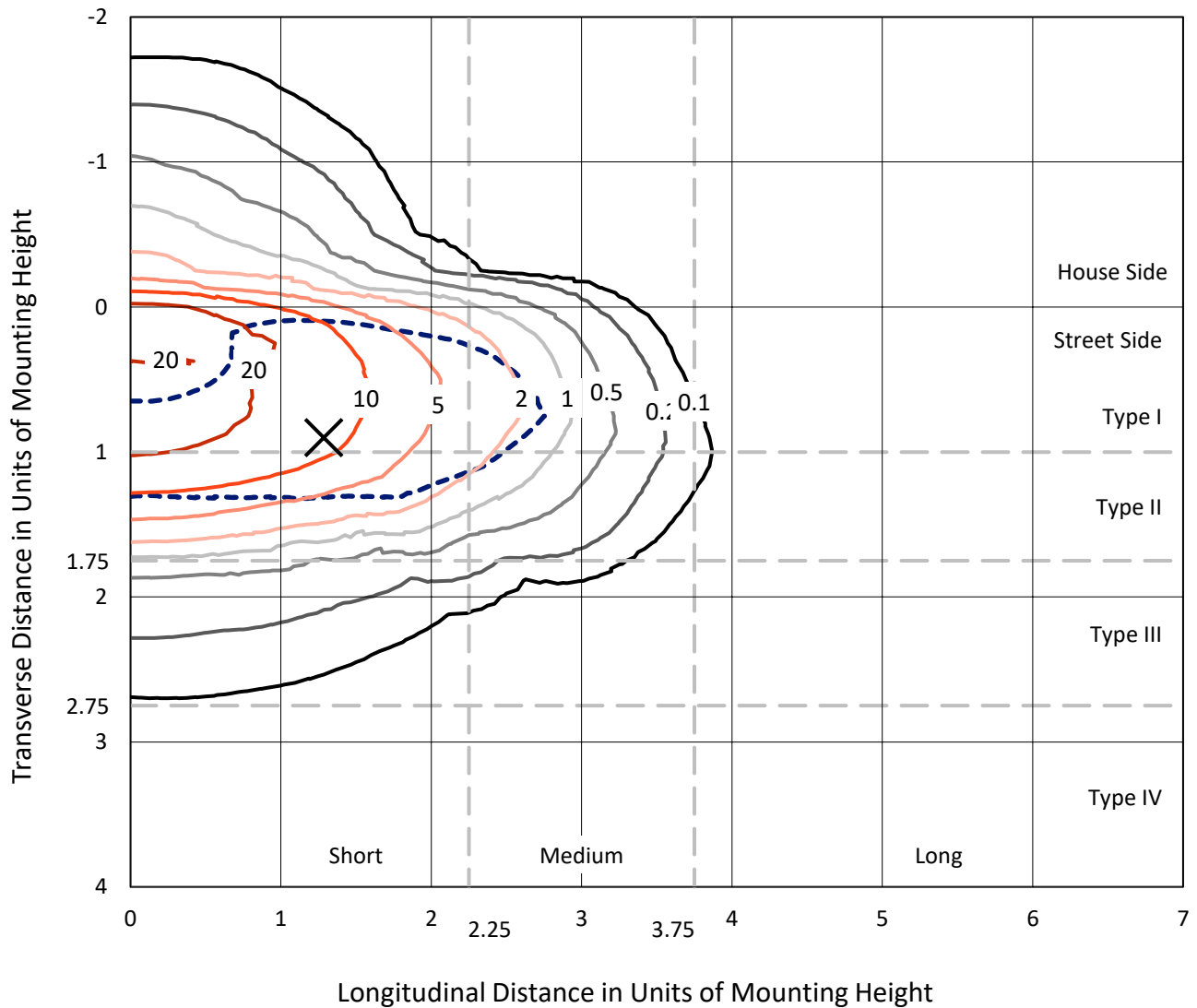
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

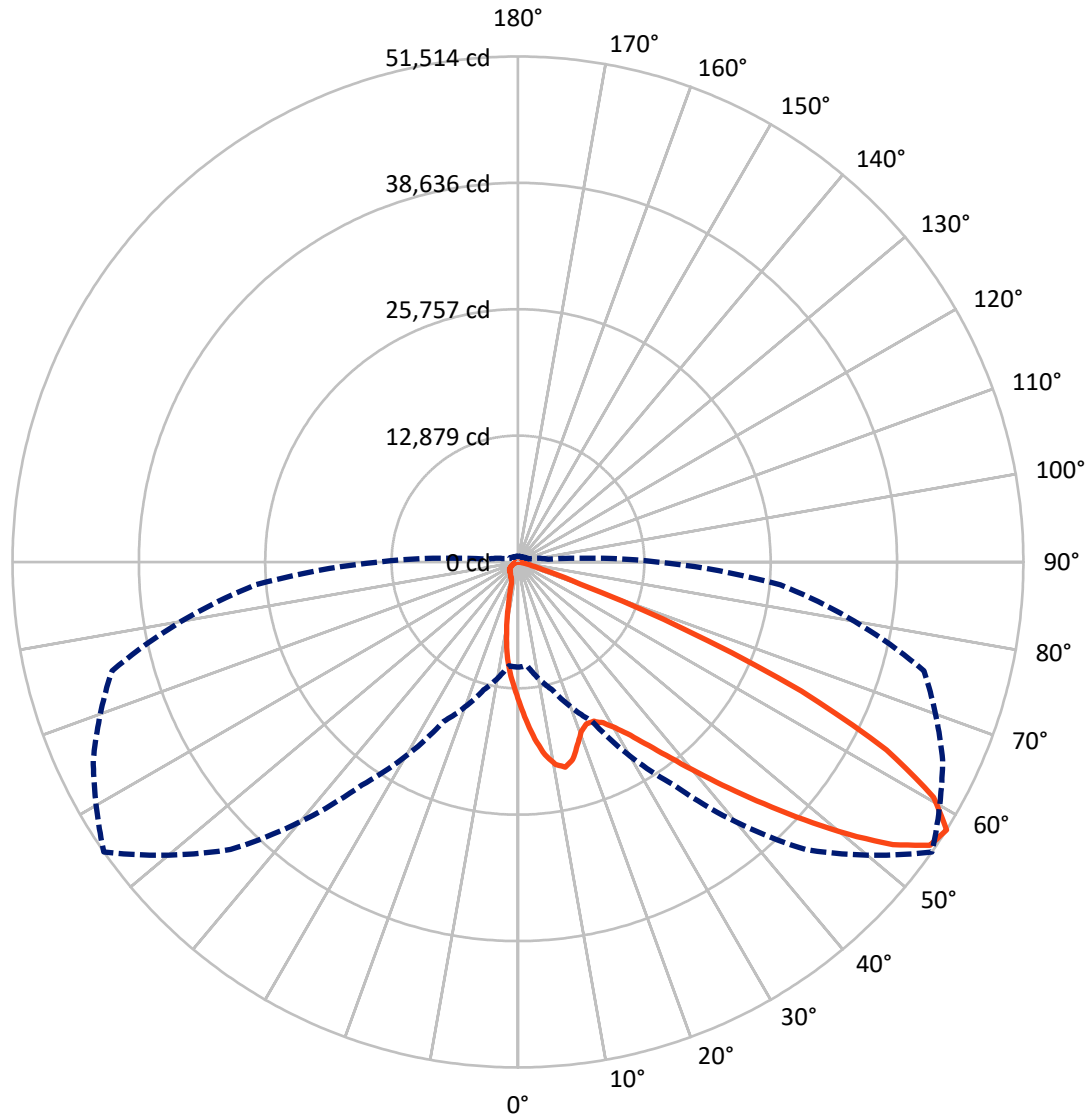
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.6 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	4609.2	0.0	4609.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	54410.8	0.0	54410.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	59020.0	0.0	59020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1323.3	2.2
10°-20°	3196.5	5.4
20°-30°	5114.3	8.7
30°-40°	8656.3	14.7
40°-50°	14211.8	24.1
50°-60°	15619.7	26.5
60°-70°	8959.5	15.2
70°-80°	1830.7	3.1
80°-90°	108.0	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°	59020.0	100.0
0°-180°	59020.0	100.0

Coefficient of Utilization



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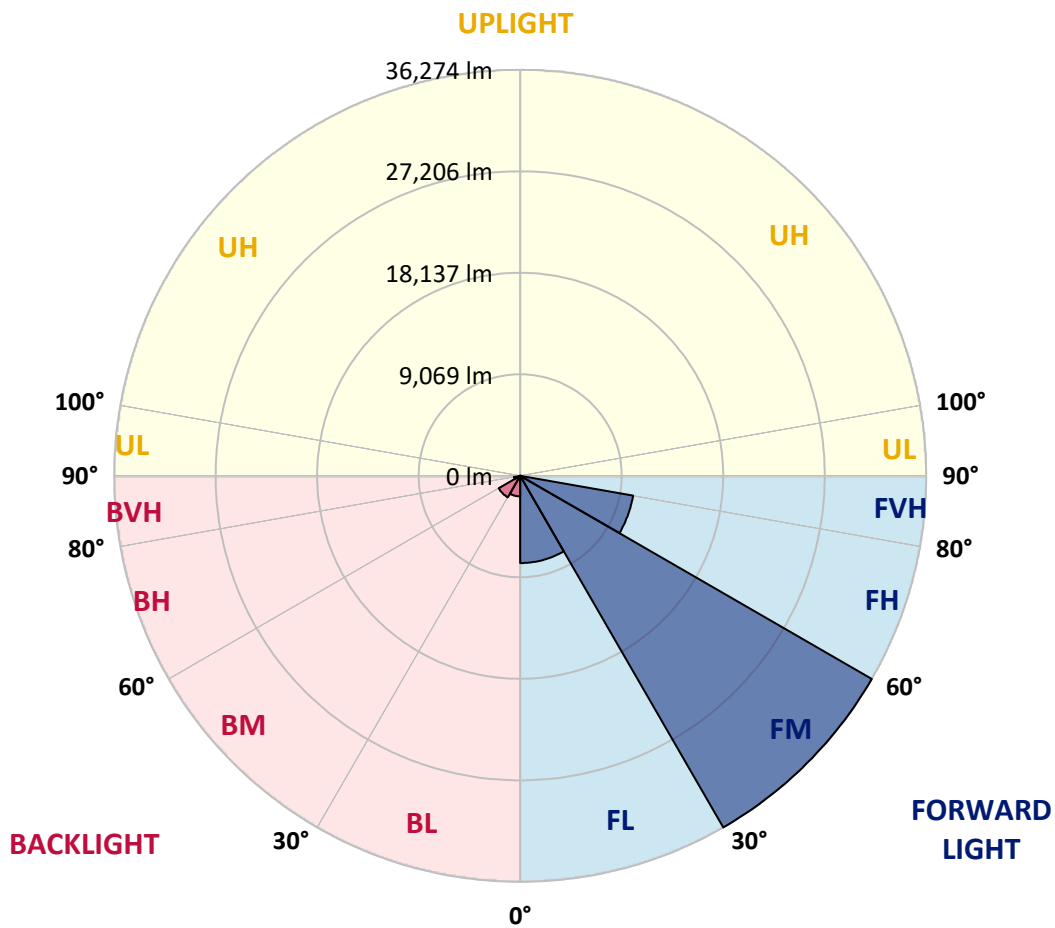
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7794.0	13.2			
FM (30°-60°)	36274.1	61.5			
FH (60°-80°)	10242.0	17.4			G4/12000
FVH (80°-90°)	100.7	0.2			G2/225
BL (0°-30°)	1840.1	3.1	B3/2500		
BM (30°-60°)	2213.6	3.8	B2/2500		
BH (60°-80°)	548.2	0.9	B2/1000		G2/1000
BVH (80°-90°)	7.3	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°	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4
2.5°	17646.9	17424.9	17392.2	17348.5	16926.4	16609.7	16151.2	15649.0	15084.9	14509.9
5°	20387.3	20212.6	20179.9	19976.1	19495.7	18957.1	18141.9	17112.0	16060.2	14822.8
7.5°	20918.7	20885.9	21035.1	21027.8	20962.3	20536.5	19848.7	18622.3	17042.8	15208.6
10°	18549.5	18633.2	19077.2	19466.6	20518.3	21129.7	20980.5	19968.8	18054.5	15649.0
12.5°	16391.4	16293.1	16609.7	17050.1	18272.9	20092.5	21450.0	21093.4	19211.8	16147.6
15°	15037.6	14997.5	15175.9	15379.7	16311.3	18145.5	20904.1	22006.8	20325.5	16737.1
17.5°	14604.5	14571.7	14626.3	14677.3	15281.4	16700.7	19604.9	22567.3	21391.8	17410.4
20°	14957.5	14913.8	14906.6	14866.5	15117.6	16085.7	18429.4	22607.3	22348.9	18021.8
22.5°	15987.4	15936.5	15758.1	15598.0	15619.9	16169.4	17905.3	22207.0	23069.5	18593.2
25°	17854.4	17770.7	17399.5	16860.9	16518.8	16751.7	17985.4	21679.3	23757.3	19040.8
27.5°	20190.8	20081.6	19604.9	18804.2	18021.8	17737.9	18564.0	21315.4	24328.7	19382.9
30°	22479.9	22338.0	21868.5	21246.2	20103.5	19208.2	19608.5	21475.5	25009.2	19739.5
32.5°	24951.0	24816.4	24194.0	23422.5	22476.3	21271.7	21038.8	22257.9	25842.6	20238.1
35°	28077.2	27866.1	26981.7	25930.0	24925.5	23706.4	22974.9	23608.1	26952.6	20998.7
37.5°	31636.4	31352.5	30399.0	28947.0	27636.8	26272.1	25333.1	25464.1	28579.4	22017.7
40°	34991.8	34733.4	33852.7	32484.3	30839.4	29183.5	28182.7	27891.6	30824.8	23258.7
42.5°	37004.4	36771.4	36400.2	35821.6	34435.0	32746.4	31483.5	30853.9	33481.5	24743.6
45°	37117.2	36913.4	37412.0	38085.2	37812.3	36687.7	35148.3	33994.7	36149.1	26137.4
47.5°	35312.1	35173.8	36687.7	39038.7	40210.6	40683.7	39264.4	36873.3	38350.9	27138.2
50°	30391.8	30340.8	33456.0	37772.2	41124.0	44184.7	43606.0	39551.9	40057.7	27655.0
52.5°	26352.1	26166.5	27982.5	33718.1	39795.7	46026.2	47849.5	42179.4	41251.4	27753.3
55°	19987.0	19823.2	22101.4	26934.4	35512.2	45371.1	50953.8	44890.7	42106.6	27502.2
57.5°	10721.4	10619.5	13498.1	17927.2	27760.5	41440.7	51514.2	47758.5	42827.2	26836.2
60°	4174.3	4156.1	5233.3	8697.9	16871.8	33714.4	48686.5	49479.9	43278.5	26017.3
62.5°	2525.7	2580.3	2754.9	3905.0	7453.3	20944.1	42168.5	47521.9	43580.6	25267.6
65°	2089.0	2092.6	2114.4	2682.2	3570.1	8763.4	31745.6	41080.4	42834.5	23932.0
67.5°	1790.5	1823.3	1907.0	2129.0	2518.4	3843.1	18276.5	31822.0	38296.3	20824.0
70°	1412.0	1455.7	1561.3	1750.5	1943.4	2405.6	6754.5	21173.4	29256.3	15696.3
72.5°	1190.0	1186.4	1241.0	1423.0	1543.1	1692.3	2598.5	11864.1	17002.8	7493.3
75°	920.7	957.1	1026.3	1190.0	1262.8	1226.4	1408.4	4334.4	6092.2	2270.9
77.5°	720.6	749.7	811.6	971.7	1044.5	869.8	811.6	1550.3	1957.9	815.2
80°	323.9	349.4	553.2	716.9	851.6	600.5	440.4	793.4	869.8	371.2
82.5°	58.2	98.3	323.9	378.5	436.7	389.4	229.3	411.2	425.8	149.2
85°	3.6	7.3	112.8	138.3	174.7	127.4	69.1	163.8	141.9	51.0
87.5°	0.0	0.0	0.0	3.6	3.6	18.2	21.8	29.1	21.8	18.2
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°
14222.4	0°	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4	14222.4
14255.1	2.5°	13993.1	13476.3	12974.1	12562.8	12322.7	11915.1	11645.7	11602.1	11489.3	11587.5
14291.5	5°	13723.8	12799.4	11864.1	11027.1	10339.2	9451.2	8788.9	8508.7	8264.8	8348.5
14386.1	7.5°	13596.4	12137.0	10681.3	9251.1	7780.8	6361.5	5306.1	4865.7	4530.9	4578.2
14491.7	10°	13425.4	11449.2	9167.4	6983.8	5014.9	3613.8	2886.0	2616.7	2467.4	2471.1
14648.2	12.5°	13294.3	10626.7	7409.6	4734.7	3053.4	2307.3	2081.7	2016.2	1972.5	1976.1
14884.7	15°	13228.8	9658.7	5673.7	3155.3	2183.6	1954.3	1899.7	1870.6	1841.5	1837.8
15146.7	17.5°	13119.7	8581.5	4152.4	2303.7	1910.6	1830.6	1783.3	1750.5	1714.1	1706.8
15372.4	20°	12955.9	7358.7	3035.2	1947.0	1790.5	1728.7	1663.2	1619.5	1575.8	1568.5
15514.3	22.5°	12653.8	6066.7	2332.8	1801.5	1703.2	1634.0	1554.0	1503.0	1459.4	1452.1
15445.2	25°	12093.4	4854.8	1965.2	1710.5	1626.8	1543.1	1455.7	1386.6	1346.5	1339.3
15296.0	27.5°	11383.7	3814.0	1783.3	1626.8	1528.5	1452.1	1353.8	1288.3	1251.9	1244.6
15099.4	30°	10546.7	2936.9	1677.7	1532.1	1412.0	1346.5	1259.2	1204.6	1182.8	1182.8
14961.1	32.5°	9644.1	2347.3	1634.0	1437.5	1310.1	1237.4	1168.2	1146.4	1139.1	1135.5
15037.6	35°	8796.2	2038.0	1612.2	1361.1	1219.2	1150.0	1120.9	1124.5	1139.1	1139.1
15274.1	37.5°	8042.8	1939.7	1601.3	1306.5	1139.1	1077.2	1095.4	1128.2	1113.6	1113.6
15689.0	40°	7362.3	1950.7	1594.0	1266.5	1073.6	1037.2	1073.6	1048.1	1011.7	1008.1
16194.9	42.5°	6841.9	2041.6	1579.5	1233.7	1033.6	1008.1	993.5	953.5	949.9	957.1
16718.9	45°	6463.4	2121.7	1575.8	1219.2	989.9	942.6	924.4	884.3	957.1	975.3
16933.6	47.5°	6015.8	2121.7	1575.8	1168.2	917.1	898.9	869.8	826.1	898.9	917.1
16729.8	50°	5437.1	1987.1	1513.9	1110.0	858.9	848.0	797.0	742.4	727.9	738.8
16253.1	52.5°	4705.6	1743.2	1357.5	1029.9	800.6	778.8	716.9	676.9	666.0	666.0
15397.9	55°	3872.2	1459.4	1146.4	913.5	738.8	698.7	655.1	636.9	626.0	618.7
14200.5	57.5°	3148.0	1197.3	920.7	811.6	680.5	629.6	615.0	593.2	575.0	564.1
13199.7	60°	2583.9	942.6	760.6	720.6	622.3	575.0	571.4	542.3	494.9	487.7
12373.6	62.5°	1994.3	691.5	640.5	626.0	564.1	524.1	516.8	458.6	385.8	371.2
11201.8	65°	1408.4	538.6	516.8	549.5	502.2	465.8	447.6	360.3	283.9	272.9
9374.8	67.5°	989.9	451.3	407.6	480.4	436.7	389.4	378.5	305.7	236.6	229.3
7089.3	70°	706.0	367.6	334.8	411.2	349.4	342.1	320.3	254.8	192.9	185.6
3508.3	72.5°	498.6	280.2	258.4	356.7	240.2	294.8	262.0	196.5	145.6	138.3
1193.7	75°	367.6	200.2	182.0	207.4	174.7	222.0	185.6	131.0	91.0	87.3
538.6	77.5°	269.3	127.4	109.2	101.9	101.9	138.3	101.9	54.6	40.0	36.4
272.9	80°	189.2	58.2	51.0	43.7	40.0	32.8	14.6	7.3	3.6	3.6
94.6	82.5°	112.8	25.5	25.5	18.2	10.9	0.0	0.0	0.0	0.0	0.0
36.4	85°	25.5	10.9	10.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
14.6	87.5°	3.6	3.6	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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