

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: P955626

Luminaire Tested: **GALN-SB8C-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955626  
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-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

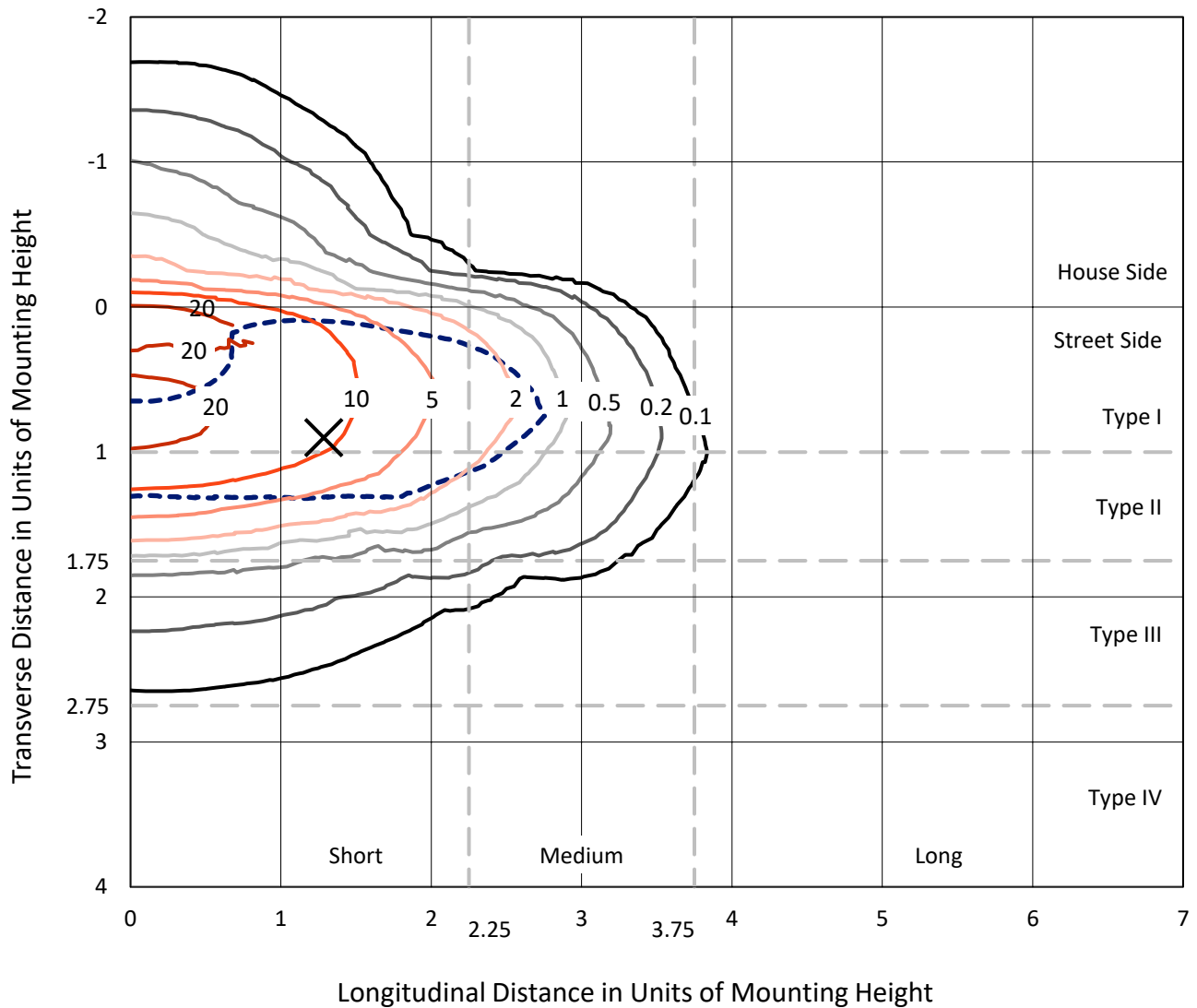
Lumens per Lamp: N/A  
Luminaire Lumens: 54626 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

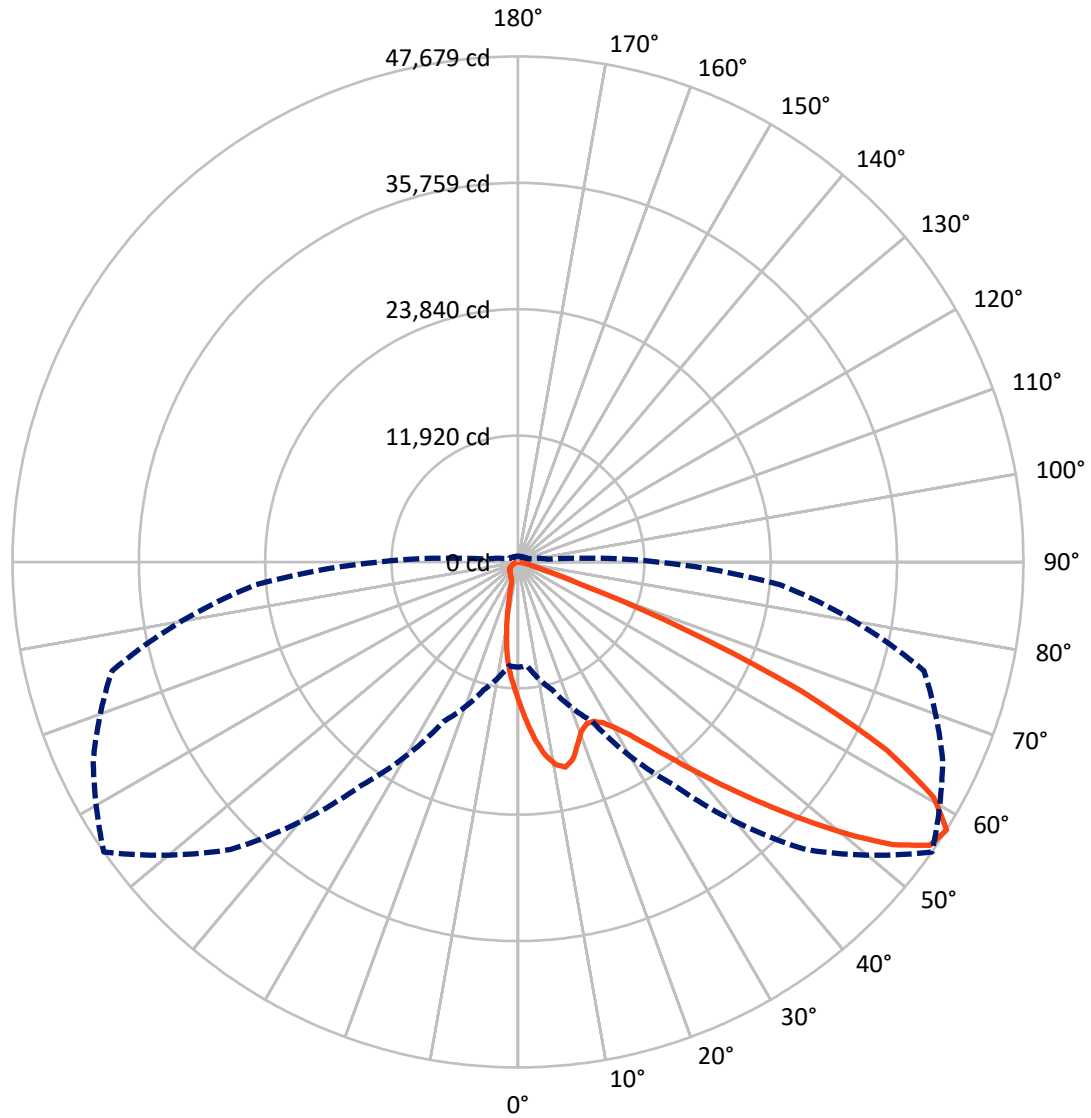
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.2 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
<b>House Side</b>	Lumens	4266.1	0.0	4266.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	50359.9	0.0	50359.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	54626.0	0.0	54626.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1224.8	2.2
10°-20°	2958.5	5.4
20°-30°	4733.5	8.7
30°-40°	8011.8	14.7
40°-50°	13153.7	24.1
50°-60°	14456.9	26.5
60°-70°	8292.5	15.2
70°-80°	1694.4	3.1
80°-90°	100.0	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°	54626.0	100.0
0°-180°	54626.0	100.0

**Coefficient of Utilization**



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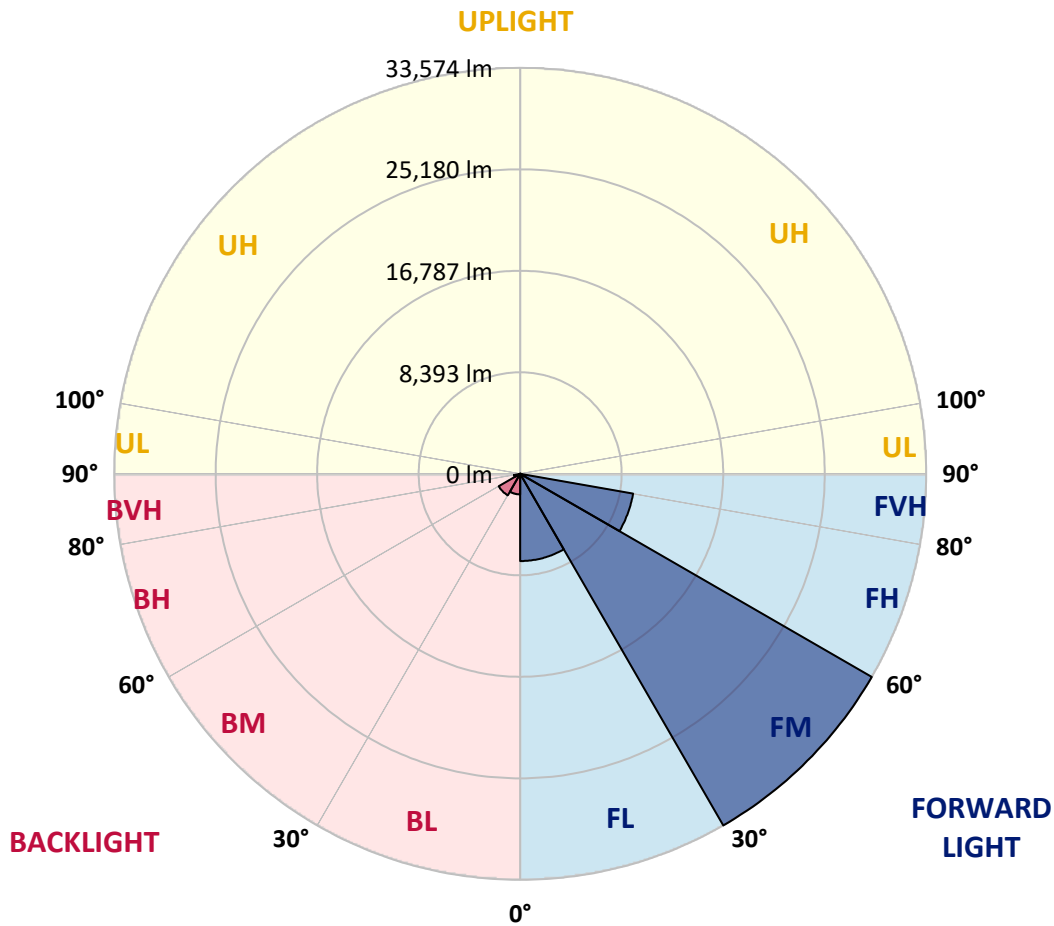
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7213.7	13.2			
FM (30°-60°)	33573.5	61.5			
FH (60°-80°)	9479.5	17.4			G4/12000
FVH (80°-90°)	93.2	0.2			G1/100
BL (0°-30°)	1703.1	3.1	B3/2500		
BM (30°-60°)	2048.8	3.8	B2/2500		
BH (60°-80°)	507.4	0.9	B2/1000		G2/1000
BVH (80°-90°)	6.7	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°	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5
2.5°	16333.1	16127.7	16097.4	16056.9	15666.2	15373.2	14948.7	14483.9	13961.8	13429.6
5°	18869.5	18707.8	18677.5	18488.9	18044.3	17545.7	16791.2	15838.0	14864.5	13719.3
7.5°	19361.3	19331.0	19469.1	19462.3	19401.7	19007.6	18371.0	17235.9	15774.0	14076.3
10°	17168.5	17246.0	17656.9	18017.3	18990.8	19556.7	19418.5	18482.1	16710.4	14483.9
12.5°	15171.1	15080.1	15373.2	15780.7	16912.5	18596.7	19853.1	19523.0	17781.5	14945.4
15°	13918.0	13881.0	14046.0	14234.7	15097.0	16794.6	19347.8	20368.4	18812.2	15491.1
17.5°	13517.2	13486.9	13537.4	13584.6	14143.7	15457.4	18145.3	20887.2	19799.2	16114.2
20°	13843.9	13803.5	13796.8	13759.7	13992.1	14888.1	17057.3	20924.2	20685.0	16680.1
22.5°	14797.2	14750.0	14585.0	14436.8	14457.0	14965.6	16572.3	20553.7	21352.0	17208.9
25°	16525.1	16447.7	16104.1	15605.6	15288.9	15504.5	16646.4	20065.3	21988.6	17623.2
27.5°	18687.6	18586.6	18145.3	17404.3	16680.1	16417.3	17182.0	19728.4	22517.4	17939.8
30°	20806.3	20674.9	20240.4	19664.4	18606.8	17778.2	18148.7	19876.6	23147.3	18269.9
32.5°	23093.4	22968.8	22392.8	21678.7	20802.9	19688.0	19472.4	20600.8	23918.7	18731.4
35°	25986.8	25791.5	24973.0	23999.5	23069.8	21941.4	21264.4	21850.5	24946.0	19435.4
37.5°	29281.1	29018.4	28135.8	26791.9	25579.3	24316.1	23447.1	23568.4	26451.7	20378.5
40°	32386.7	32147.6	31332.4	30065.9	28543.4	27010.8	26084.5	25815.0	28529.9	21527.1
42.5°	34249.4	34033.8	33690.3	33154.7	31871.3	30308.4	29139.6	28556.9	30988.8	22901.4
45°	34353.8	34165.2	34626.7	35249.8	34997.2	33956.4	32531.5	31463.8	33457.8	24191.5
47.5°	32683.1	32555.1	33956.4	36132.3	37216.9	37654.8	36341.1	34128.1	35495.7	25117.8
50°	28129.1	28082.0	30965.3	34960.1	38062.4	40895.2	40359.6	36607.2	37075.5	25596.1
52.5°	24390.2	24218.5	25899.3	31207.8	36832.9	42599.5	44287.1	39039.2	38180.3	25687.1
55°	18499.0	18347.4	20456.0	24929.2	32868.4	41993.2	47160.3	41548.6	38971.8	25454.6
57.5°	9923.2	9828.9	12493.2	16592.5	25693.8	38355.4	47679.0	44202.9	39638.8	24838.2
60°	3863.5	3846.7	4843.7	8050.4	15615.7	31204.4	45061.8	45796.1	40056.4	24080.3
62.5°	2337.6	2388.2	2549.8	3614.2	6898.4	19384.9	39029.1	43983.9	40336.0	23386.5
65°	1933.4	1936.8	1957.0	2482.5	3304.4	8111.0	29382.1	38022.0	39645.5	22150.3
67.5°	1657.2	1687.5	1765.0	1970.5	2330.9	3557.0	16915.9	29452.9	35445.2	19273.7
70°	1306.9	1347.3	1445.0	1620.2	1798.7	2226.5	6251.7	19597.1	27078.2	14527.7
72.5°	1101.5	1098.1	1148.6	1317.0	1428.2	1566.3	2405.0	10980.8	15736.9	6935.4
75°	852.2	885.9	949.9	1101.5	1168.8	1135.1	1303.6	4011.7	5638.6	2101.9
77.5°	666.9	693.9	751.1	899.3	966.7	805.0	751.1	1434.9	1812.2	754.5
80°	299.8	323.4	512.0	663.6	788.2	555.8	407.6	734.3	805.0	343.6
82.5°	53.9	90.9	299.8	350.3	404.2	360.4	212.2	380.6	394.1	138.1
85°	3.4	6.7	104.4	128.0	161.7	117.9	64.0	151.6	131.4	47.2
87.5°	0.0	0.0	0.0	3.4	3.4	16.8	20.2	26.9	20.2	16.8
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°
13163.5	0°	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5	13163.5
13193.8	2.5°	12951.3	12473.0	12008.2	11627.6	11405.2	11028.0	10778.7	10738.3	10633.9	10724.8
13227.5	5°	12702.1	11846.5	10980.8	10206.1	9569.5	8747.6	8134.6	7875.2	7649.5	7727.0
13315.1	7.5°	12584.2	11233.5	9886.1	8562.4	7201.5	5887.9	4911.1	4503.5	4193.6	4237.4
13412.8	10°	12425.9	10596.8	8484.9	6463.9	4641.6	3344.8	2671.1	2421.8	2283.7	2287.1
13557.6	12.5°	12304.6	9835.6	6858.0	4382.2	2826.0	2135.5	1926.7	1866.1	1825.6	1829.0
13776.6	15°	12244.0	8939.6	5251.3	2920.4	2021.0	1808.8	1758.3	1731.3	1704.4	1701.0
14019.1	17.5°	12142.9	7942.6	3843.3	2132.2	1768.4	1694.3	1650.5	1620.2	1586.5	1579.8
14227.9	20°	11991.3	6810.8	2809.2	1802.1	1657.2	1600.0	1539.3	1498.9	1458.5	1451.8
14359.3	22.5°	11711.8	5615.0	2159.1	1667.3	1576.4	1512.4	1438.3	1391.1	1350.7	1344.0
14295.3	25°	11193.0	4493.4	1818.9	1583.1	1505.7	1428.2	1347.3	1283.3	1246.3	1239.6
14157.2	27.5°	10536.2	3530.0	1650.5	1505.7	1414.7	1344.0	1253.0	1192.4	1158.7	1152.0
13975.3	30°	9761.5	2718.3	1552.8	1418.1	1306.9	1246.3	1165.4	1114.9	1094.7	1094.7
13847.3	32.5°	8926.1	2172.6	1512.4	1330.5	1212.6	1145.2	1081.2	1061.0	1054.3	1050.9
13918.0	35°	8141.3	1886.3	1492.2	1259.8	1128.4	1064.4	1037.5	1040.8	1054.3	1054.3
14137.0	37.5°	7444.1	1795.3	1482.1	1209.2	1054.3	997.0	1013.9	1044.2	1030.7	1030.7
14521.0	40°	6814.2	1805.4	1475.3	1172.2	993.7	960.0	993.7	970.1	936.4	933.0
14989.2	42.5°	6332.5	1889.6	1461.9	1141.9	956.6	933.0	919.6	882.5	879.1	885.9
15474.2	45°	5982.2	1963.7	1458.5	1128.4	916.2	872.4	855.6	818.5	885.9	902.7
15672.9	47.5°	5567.9	1963.7	1458.5	1081.2	848.8	832.0	805.0	764.6	832.0	848.8
15484.3	50°	5032.3	1839.1	1401.2	1027.3	794.9	784.8	737.7	687.1	673.7	683.8
15043.1	52.5°	4355.3	1613.4	1256.4	953.2	741.0	720.8	663.6	626.5	616.4	616.4
14251.5	55°	3583.9	1350.7	1061.0	845.5	683.8	646.7	606.3	589.5	579.4	572.6
13143.3	57.5°	2913.6	1108.2	852.2	751.1	629.9	582.7	569.3	549.0	532.2	522.1
12217.0	60°	2391.5	872.4	704.0	666.9	576.0	532.2	528.8	501.9	458.1	451.4
11452.4	62.5°	1845.9	640.0	592.8	579.4	522.1	485.0	478.3	424.4	357.0	343.6
10367.8	65°	1303.6	498.5	478.3	508.6	464.8	431.1	414.3	333.5	262.7	252.6
8676.9	67.5°	916.2	417.7	377.3	444.6	404.2	360.4	350.3	282.9	218.9	212.2
6561.5	70°	653.5	340.2	309.9	380.6	323.4	316.6	296.4	235.8	178.5	171.8
3247.1	72.5°	461.5	259.4	239.2	330.1	222.3	272.8	242.5	181.9	134.7	128.0
1104.8	75°	340.2	185.3	168.4	192.0	161.7	205.5	171.8	121.3	84.2	80.8
498.5	77.5°	249.3	117.9	101.1	94.3	94.3	128.0	94.3	50.5	37.1	33.7
252.6	80°	175.2	53.9	47.2	40.4	37.1	30.3	13.5	6.7	3.4	3.4
87.6	82.5°	104.4	23.6	23.6	16.8	10.1	0.0	0.0	0.0	0.0	0.0
33.7	85°	23.6	10.1	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
13.5	87.5°	3.4	3.4	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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