

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: P957138

Luminaire Tested: **GALN-SB9C-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957138  
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-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

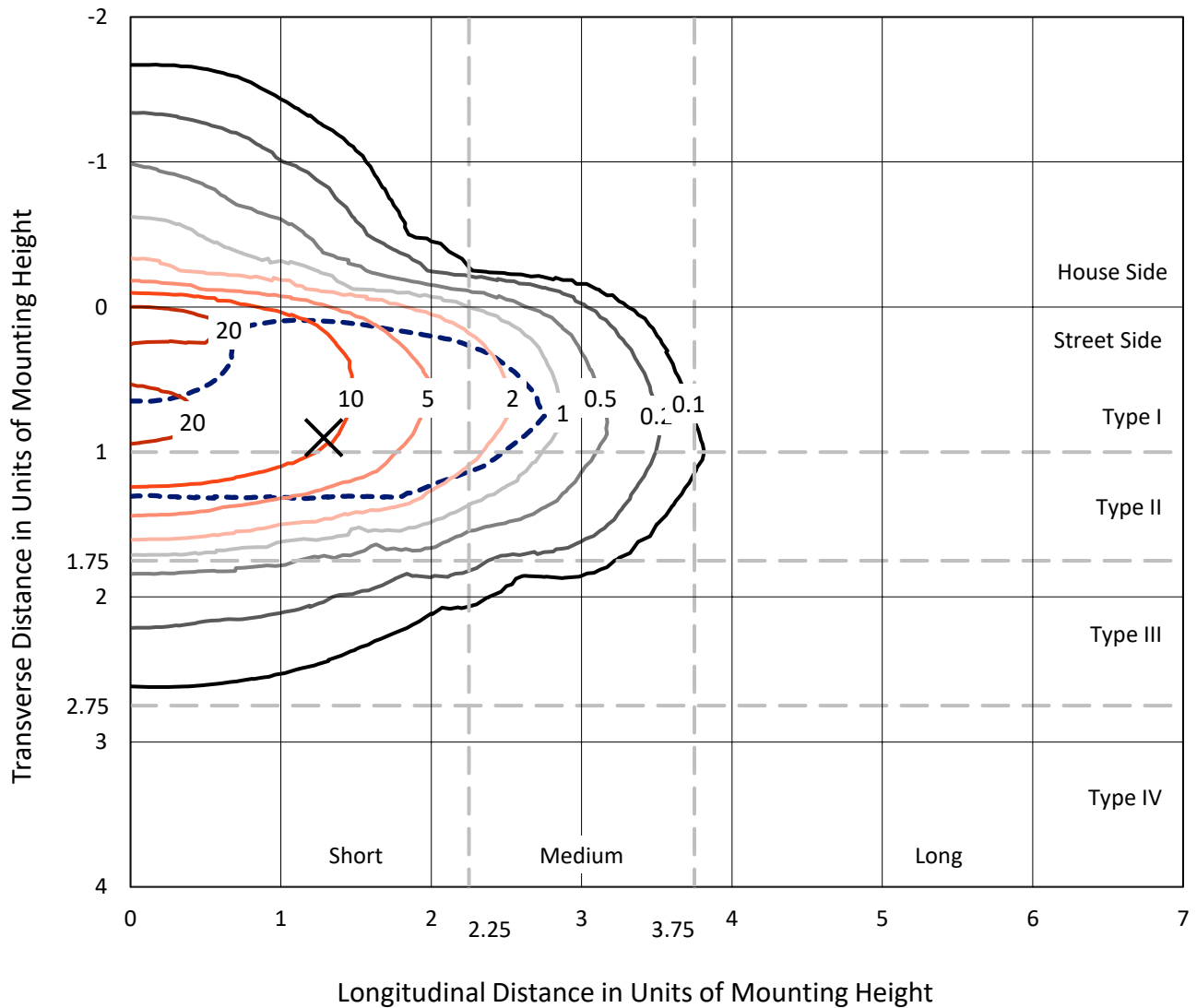
Lumens per Lamp: N/A  
Luminaire Lumens: 52260 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

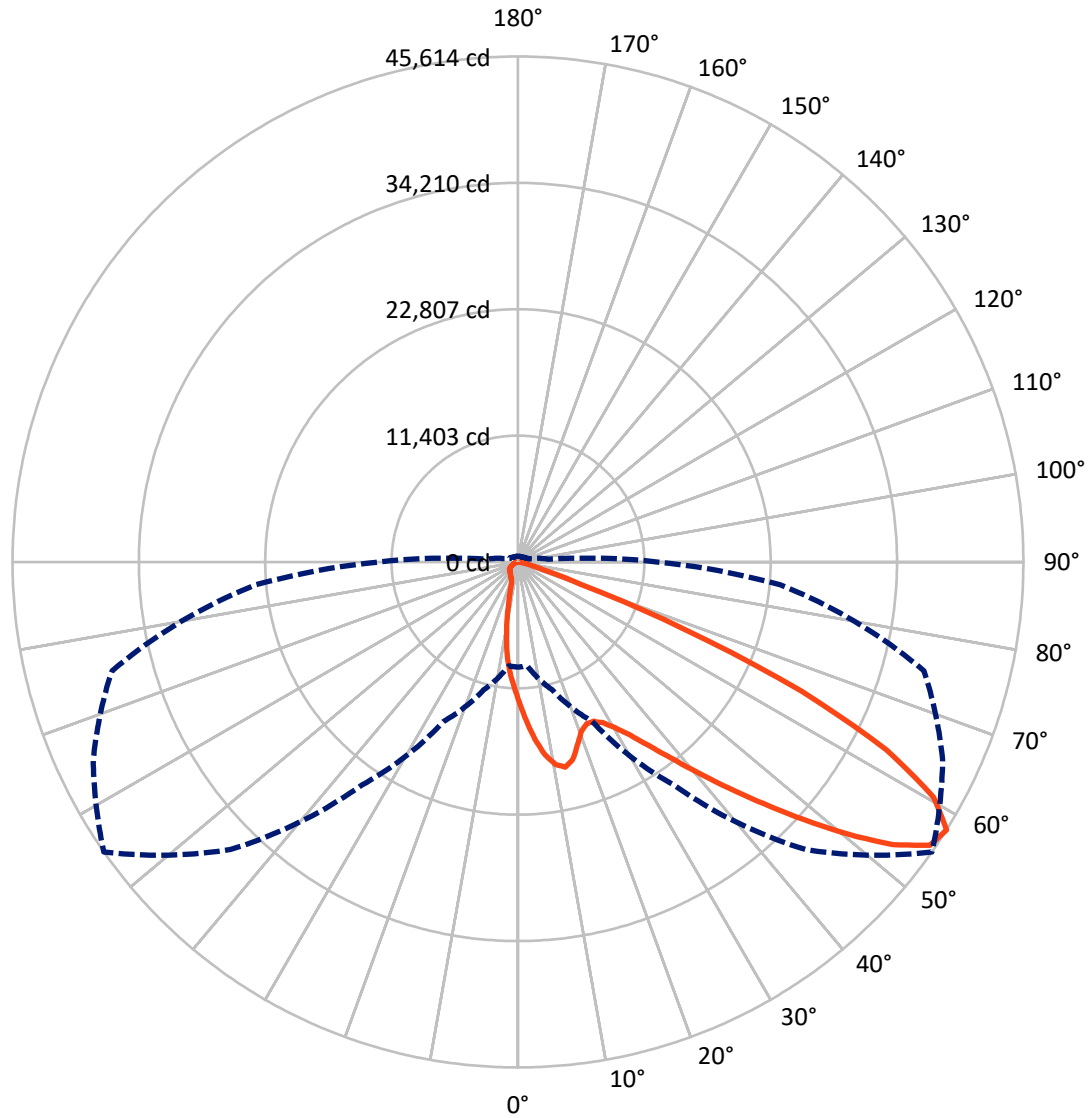
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.8 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	4081.3	0.0	4081.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	48178.7	0.0	48178.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	52260.0	0.0	52260.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1171.7	2.2
10°-20°	2830.4	5.4
20°-30°	4528.5	8.7
30°-40°	7664.8	14.7
40°-50°	12584.0	24.1
50°-60°	13830.7	26.5
60°-70°	7933.3	15.2
70°-80°	1621.0	3.1
80°-90°	95.6	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°	52260.0	100.0
0°-180°	52260.0	100.0

**Coefficient of Utilization**



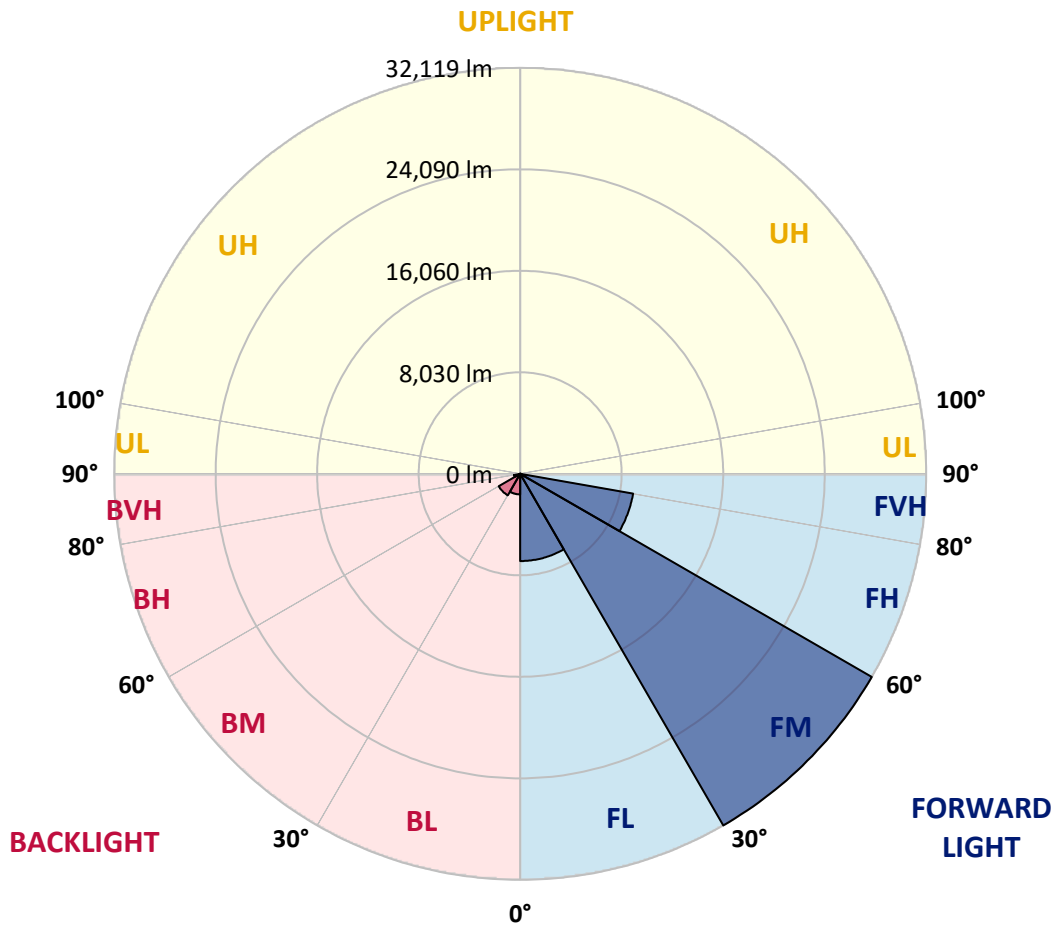
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6901.3	13.2			
FM (30°-60°)	32119.4	61.5			
FH (60°-80°)	9068.9	17.4			G4/12000
FVH (80°-90°)	89.2	0.2			G1/100
BL (0°-30°)	1629.4	3.1	B3/2500		
BM (30°-60°)	1960.1	3.8	B2/2500		
BH (60°-80°)	485.4	0.9	B1/500		G1/500
BVH (80°-90°)	6.4	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°	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4
2.5°	15625.7	15429.1	15400.1	15361.5	14987.7	14707.3	14301.3	13856.6	13357.1	12847.9
5°	18052.2	17897.5	17868.5	17688.1	17262.7	16785.8	16064.0	15152.0	14220.7	13125.1
7.5°	18522.7	18493.7	18625.8	18619.4	18561.4	18184.3	17575.3	16489.3	15090.8	13466.7
10°	16424.9	16499.0	16892.1	17236.9	18168.2	18709.6	18577.5	17681.6	15986.6	13856.6
12.5°	14514.0	14427.0	14707.3	15097.2	16180.0	17791.2	18993.2	18677.4	17011.4	14298.1
15°	13315.2	13279.8	13437.7	13618.1	14443.1	16067.2	18509.8	19486.2	17997.4	14820.1
17.5°	12931.7	12902.7	12951.1	12996.2	13531.1	14787.9	17359.4	19982.5	18941.6	15416.2
20°	13244.3	13205.6	13199.2	13163.7	13386.1	14243.3	16318.5	20017.9	19789.1	15957.6
22.5°	14156.3	14111.2	13953.2	13811.5	13830.8	14317.4	15854.5	19663.4	20427.2	16463.5
25°	15809.4	15735.3	15406.6	14929.7	14626.7	14833.0	15925.4	19196.2	21036.2	16859.9
27.5°	17878.2	17781.5	17359.4	16650.4	15957.6	15706.3	16437.8	18873.9	21542.1	17162.8
30°	19905.1	19779.5	19363.8	18812.7	17800.9	17008.1	17362.6	19015.7	22144.7	17478.6
32.5°	22093.2	21974.0	21422.9	20739.7	19901.9	18835.3	18629.0	19708.6	22882.7	17920.1
35°	24861.3	24674.4	23891.3	22960.0	22070.6	20991.1	20343.4	20904.1	23865.5	18593.6
37.5°	28012.8	27761.5	26917.2	25631.4	24471.4	23262.9	22431.5	22547.5	25306.0	19495.9
40°	30983.9	30755.2	29975.3	28763.7	27307.1	25840.9	24954.7	24696.9	27294.2	20594.7
42.5°	32766.0	32559.7	32231.0	31718.7	30490.9	28995.7	27877.5	27320.0	29646.6	21909.5
45°	32865.9	32685.4	33126.9	33723.0	33481.4	32485.6	31122.5	30101.0	32008.7	23143.7
47.5°	31267.5	31145.1	32485.6	34567.3	35605.0	36023.9	34767.1	32650.0	33958.3	24029.9
50°	26910.8	26865.6	29624.1	33445.9	36413.8	39123.9	38611.5	35021.7	35469.6	24487.5
52.5°	23333.8	23169.5	24777.5	29856.1	35237.6	40754.4	42368.9	37348.3	36526.6	24574.5
55°	17697.7	17552.7	19570.0	23849.4	31444.8	40174.4	45117.7	39749.0	37283.9	24352.1
57.5°	9493.4	9403.1	11952.1	15873.8	24580.9	36694.1	45613.9	42288.3	37921.9	23762.4
60°	3696.2	3680.0	4633.9	7701.7	14939.3	29852.9	43110.1	43812.6	38321.5	23037.4
62.5°	2236.4	2284.7	2439.4	3457.7	6599.6	18545.3	37338.6	42078.9	38589.0	22373.5
65°	1849.7	1852.9	1872.2	2375.0	3161.2	7759.7	28109.5	36375.1	37928.3	21190.9
67.5°	1585.5	1614.5	1688.6	1885.1	2229.9	3402.9	16183.2	28177.2	33909.9	18438.9
70°	1250.3	1289.0	1382.4	1550.0	1720.8	2130.0	5980.9	18748.3	25905.4	13898.5
72.5°	1053.7	1050.5	1098.9	1260.0	1366.3	1498.4	2300.8	10505.2	15055.3	6635.0
75°	815.3	847.5	908.7	1053.7	1118.2	1086.0	1247.1	3837.9	5394.4	2010.8
77.5°	638.0	663.8	718.6	860.4	924.8	770.2	718.6	1372.8	1733.7	721.8
80°	286.8	309.4	489.8	634.8	754.1	531.7	389.9	702.5	770.2	328.7
82.5°	51.6	87.0	286.8	335.1	386.7	344.8	203.0	364.1	377.0	132.1
85°	3.2	6.4	99.9	122.5	154.7	112.8	61.2	145.0	125.7	45.1
87.5°	0.0	0.0	0.0	3.2	3.2	16.1	19.3	25.8	19.3	16.1
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°
12593.4	0°	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4	12593.4
12622.4	2.5°	12390.4	11932.8	11488.1	11123.9	10911.2	10550.3	10311.9	10273.2	10173.3	10260.3
12654.6	5°	12151.9	11333.4	10505.2	9764.1	9155.0	8368.7	7782.2	7534.1	7318.2	7392.3
12738.4	7.5°	12039.1	10746.9	9457.9	8191.5	6889.6	5632.9	4698.3	4308.4	4012.0	4053.9
12831.8	10°	11887.7	10137.9	8117.4	6183.9	4440.5	3199.9	2555.4	2316.9	2184.8	2188.1
12970.4	12.5°	11771.6	9409.6	6560.9	4192.4	2703.6	2043.0	1843.2	1785.2	1746.6	1749.8
13179.9	15°	11713.6	8552.4	5023.8	2793.9	1933.5	1730.5	1682.1	1656.3	1630.6	1627.3
13411.9	17.5°	11617.0	7598.6	3676.8	2039.8	1691.8	1620.9	1579.0	1550.0	1517.8	1511.3
13611.7	20°	11472.0	6515.8	2687.5	1724.0	1585.5	1530.7	1472.7	1434.0	1395.3	1388.9
13737.3	22.5°	11204.5	5371.8	2065.6	1595.1	1508.1	1446.9	1376.0	1330.9	1292.2	1285.8
13676.1	25°	10708.2	4298.8	1740.1	1514.6	1440.4	1366.3	1289.0	1227.8	1192.3	1185.9
13544.0	27.5°	10079.9	3377.1	1579.0	1440.4	1353.4	1285.8	1198.8	1140.8	1108.5	1102.1
13370.0	30°	9338.7	2600.5	1485.6	1356.7	1250.3	1192.3	1115.0	1066.6	1047.3	1047.3
13247.5	32.5°	8539.5	2078.5	1446.9	1272.9	1160.1	1095.6	1034.4	1015.1	1008.6	1005.4
13315.2	35°	7788.7	1804.6	1427.5	1205.2	1079.5	1018.3	992.5	995.7	1008.6	1008.6
13524.7	37.5°	7121.6	1717.6	1417.9	1156.9	1008.6	953.8	970.0	999.0	986.1	986.1
13892.0	40°	6519.0	1727.2	1411.4	1121.4	950.6	918.4	950.6	928.1	895.8	892.6
14339.9	42.5°	6058.2	1807.8	1398.5	1092.4	915.2	892.6	879.7	844.3	841.1	847.5
14804.0	45°	5723.1	1878.7	1395.3	1079.5	876.5	834.6	818.5	783.1	847.5	863.6
14994.1	47.5°	5326.7	1878.7	1395.3	1034.4	812.1	795.9	770.2	731.5	795.9	812.1
14813.6	50°	4814.4	1759.5	1340.5	982.9	760.5	750.8	705.7	657.4	644.5	654.2
14391.5	52.5°	4166.6	1543.6	1202.0	912.0	708.9	689.6	634.8	599.4	589.7	589.7
13634.2	55°	3428.7	1292.2	1015.1	808.8	654.2	618.7	580.0	563.9	554.3	547.8
12574.0	57.5°	2787.4	1060.2	815.3	718.6	602.6	557.5	544.6	525.3	509.1	499.5
11687.9	60°	2287.9	834.6	673.5	638.0	551.0	509.1	505.9	480.1	438.3	431.8
10956.4	62.5°	1765.9	612.3	567.2	554.3	499.5	464.0	457.6	406.0	341.6	328.7
9918.7	65°	1247.1	476.9	457.6	486.6	444.7	412.5	396.4	319.0	251.4	241.7
8301.1	67.5°	876.5	399.6	360.9	425.4	386.7	344.8	335.1	270.7	209.5	203.0
6277.4	70°	625.2	325.5	296.5	364.1	309.4	302.9	283.6	225.6	170.8	164.3
3106.5	72.5°	441.5	248.1	228.8	315.8	212.7	261.0	232.0	174.0	128.9	122.5
1057.0	75°	325.5	177.2	161.1	183.7	154.7	196.6	164.3	116.0	80.6	77.3
476.9	77.5°	238.5	112.8	96.7	90.2	90.2	122.5	90.2	48.3	35.4	32.2
241.7	80°	167.6	51.6	45.1	38.7	35.4	29.0	12.9	6.4	3.2	3.2
83.8	82.5°	99.9	22.6	22.6	16.1	9.7	0.0	0.0	0.0	0.0	0.0
32.2	85°	22.6	9.7	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
12.9	87.5°	3.2	3.2	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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