

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: P957306

Luminaire Tested: **GALN-SB9C-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957306  
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-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

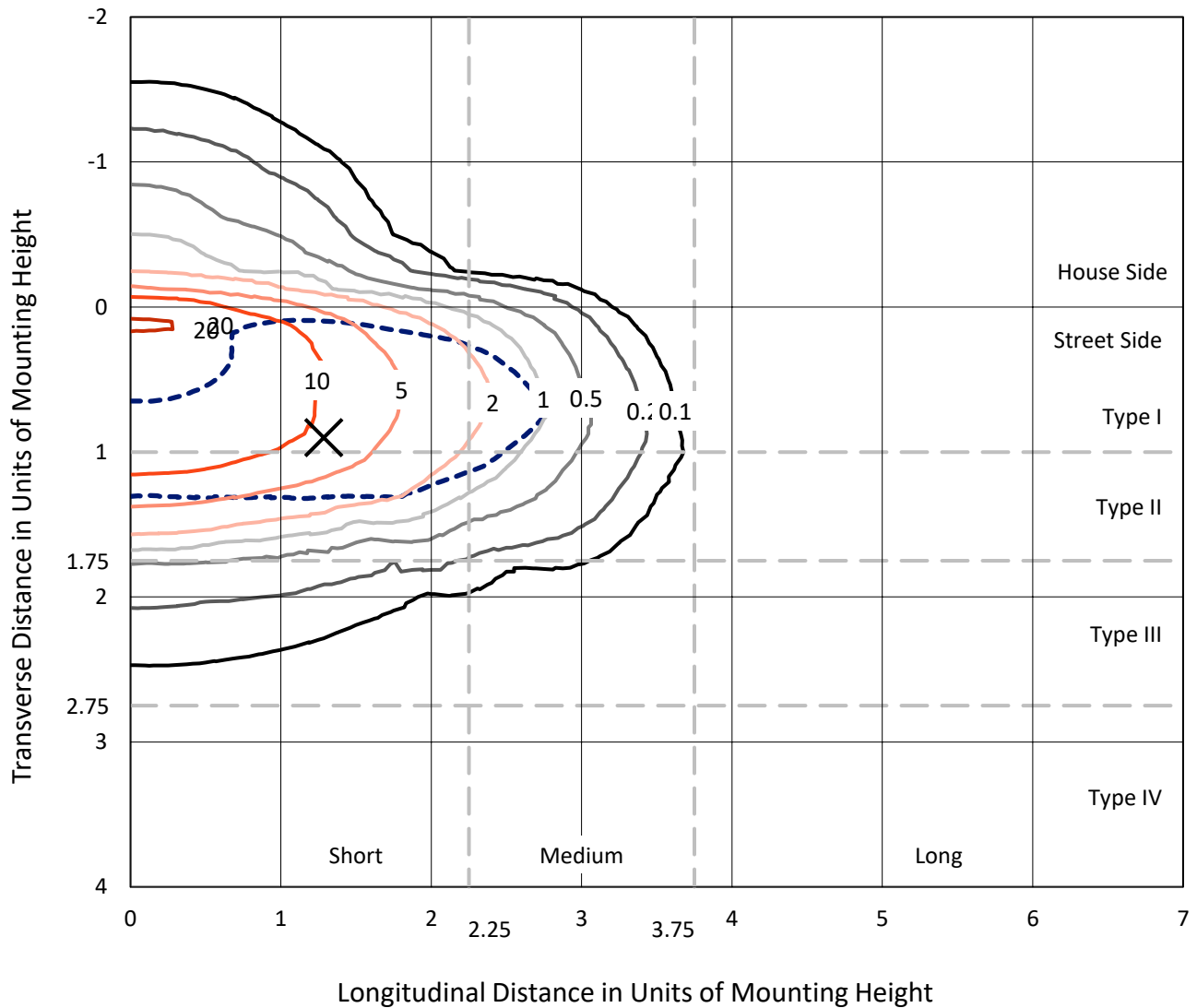
Lumens per Lamp: N/A  
Luminaire Lumens: 40459 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

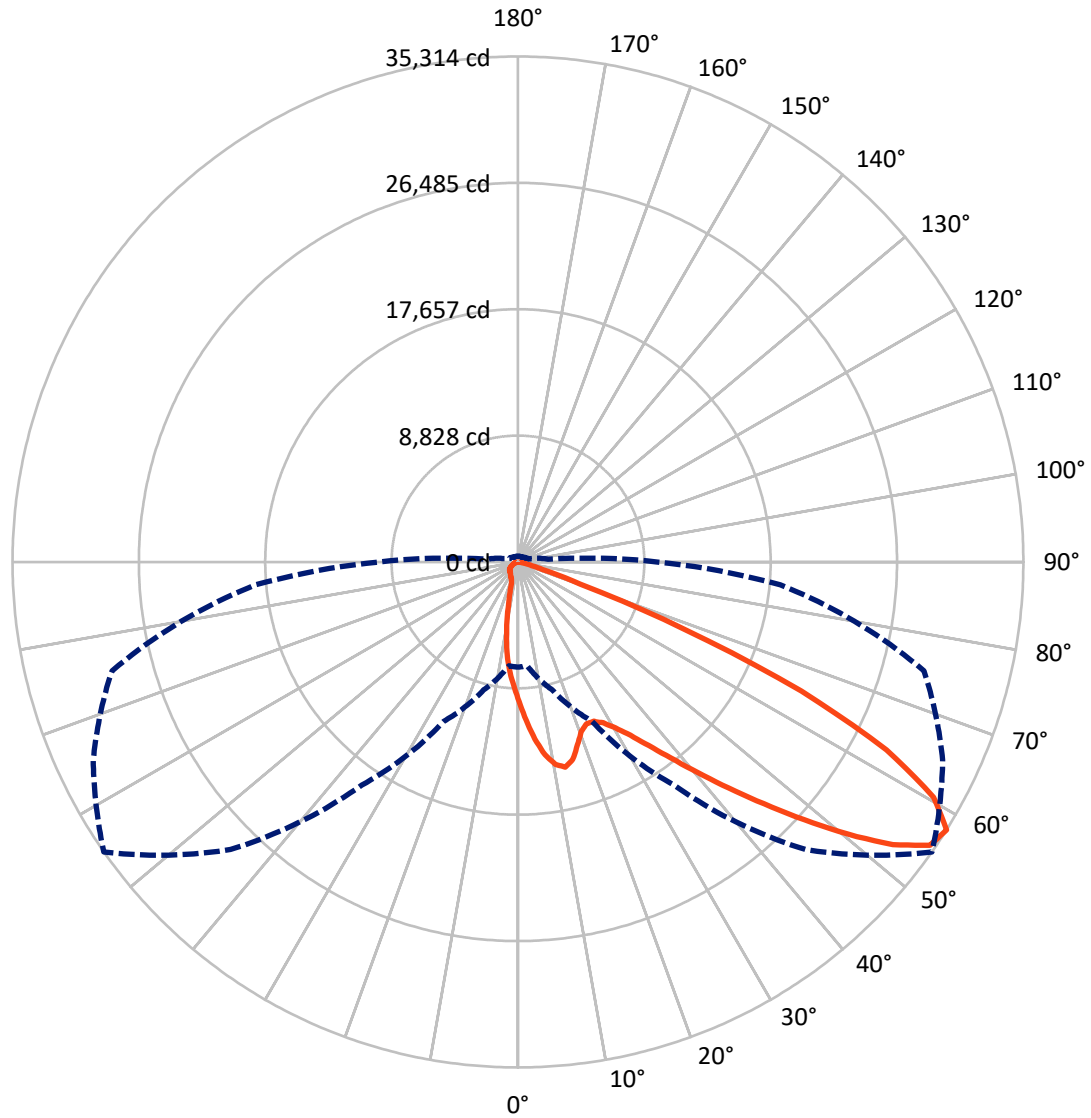
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 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	3159.7	0.0	3159.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	37299.3	0.0	37299.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	40459.0	0.0	40459.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	907.1	2.2
10°-20°	2191.2	5.4
20°-30°	3505.9	8.7
30°-40°	5934.0	14.7
40°-50°	9742.3	24.1
50°-60°	10707.5	26.5
60°-70°	6141.8	15.2
70°-80°	1255.0	3.1
80°-90°	74.0	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°	40459.0	100.0
0°-180°	40459.0	100.0

**Coefficient of Utilization**



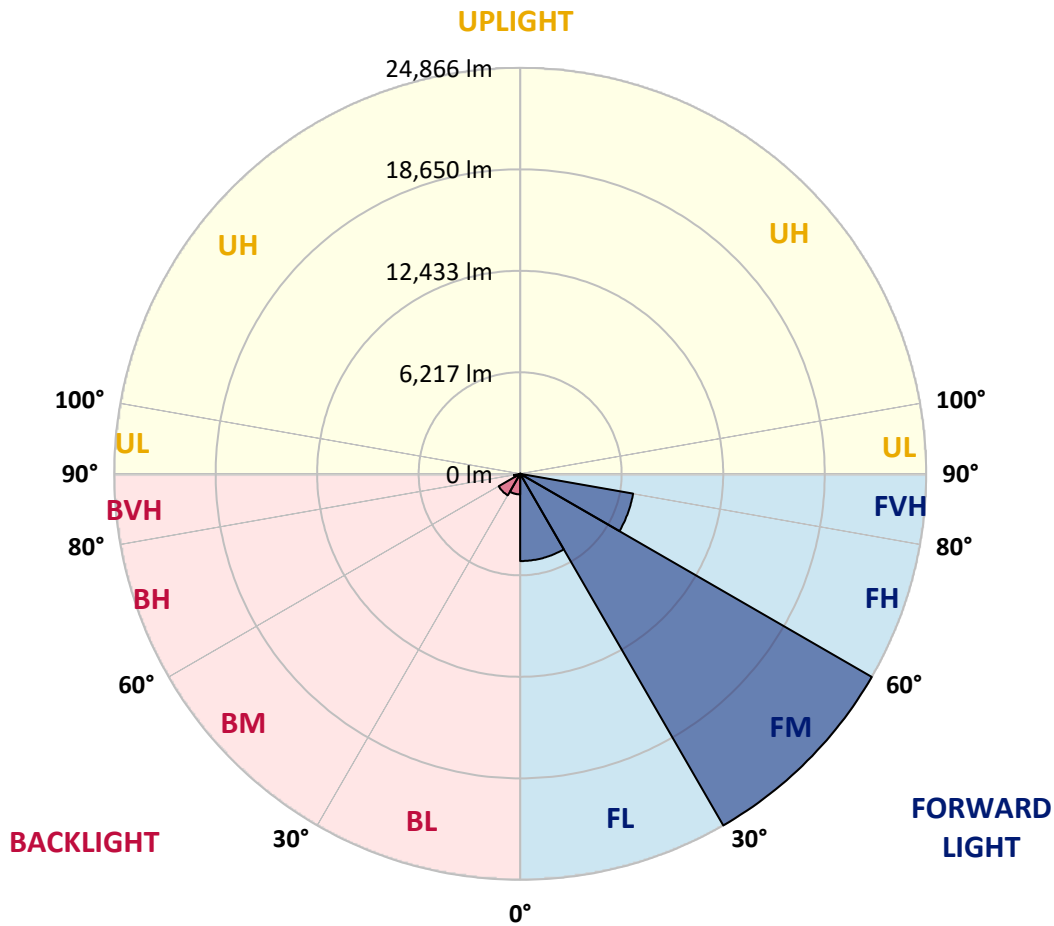
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5342.9	13.2			
FM (30°-60°)	24866.4	61.5			
FH (60°-80°)	7021.0	17.4			G3/7500
FVH (80°-90°)	69.0	0.2			G1/100
BL (0°-30°)	1261.4	3.1	B3/2500		
BM (30°-60°)	1517.5	3.8	B2/2500		
BH (60°-80°)	375.8	0.9	B1/500		G1/500
BVH (80°-90°)	5.0	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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6
2.5°	12097.2	11945.0	11922.6	11892.6	11603.2	11386.2	11071.9	10727.6	10340.9	9946.7
5°	13975.8	13856.0	13833.6	13693.9	13364.6	12995.3	12436.5	11730.5	11009.5	10161.3
7.5°	14340.0	14317.6	14419.9	14414.9	14370.0	14078.1	13606.6	12765.8	11683.1	10425.7
10°	12715.9	12773.3	13077.7	13344.6	14065.6	14484.7	14382.4	13688.9	12376.6	10727.6
12.5°	11236.5	11169.2	11386.2	11688.1	12526.3	13773.7	14704.3	14459.8	13170.0	11069.4
15°	10308.5	10281.0	10403.3	10543.0	11181.6	12439.0	14330.0	15086.0	13933.4	11473.5
17.5°	10011.6	9989.1	10026.5	10061.5	10475.6	11448.6	13439.4	15470.2	14664.3	11935.1
20°	10253.6	10223.6	10218.6	10191.2	10363.3	11027.0	12633.6	15497.6	15320.5	12354.2
22.5°	10959.6	10924.7	10802.4	10692.7	10707.6	11084.3	12274.3	15223.2	15814.4	12745.9
25°	12239.4	12182.0	11927.6	11558.3	11323.8	11483.5	12329.2	14861.4	16286.0	13052.7
27.5°	13841.1	13766.2	13439.4	12890.6	12354.2	12159.6	12725.9	14612.0	16677.6	13287.2
30°	15410.3	15313.0	14991.2	14564.6	13781.2	13167.5	13441.9	14721.7	17144.2	13531.7
32.5°	17104.2	17011.9	16585.3	16056.4	15407.8	14582.0	14422.4	15258.1	17715.5	13873.5
35°	19247.3	19102.6	18496.3	17775.3	17086.8	16251.0	15749.6	16183.7	18476.4	14394.9
37.5°	21687.2	21492.6	20838.9	19843.5	18945.4	18009.9	17366.2	17456.0	19591.6	15093.5
40°	23987.4	23810.2	23206.5	22268.5	21140.8	20005.7	19319.6	19120.0	21130.8	15944.2
42.5°	25367.0	25207.3	24952.8	24556.2	23605.7	22448.1	21582.4	21150.8	22952.0	16962.0
45°	25444.3	25304.6	25646.4	26107.9	25920.8	25149.9	24094.6	23303.8	24780.7	17917.5
47.5°	24206.9	24112.1	25149.9	26761.6	27564.9	27889.2	26916.2	25277.2	26290.0	18603.6
50°	20834.0	20799.0	22934.6	25893.4	28191.1	30289.2	29892.5	27113.3	27460.1	18957.9
52.5°	18064.7	17937.5	19182.4	23114.2	27280.5	31551.6	32801.4	28914.6	28278.4	19025.2
55°	13701.4	13589.1	15150.8	18463.9	24344.1	31102.5	34929.5	30773.2	28864.7	18853.1
57.5°	7349.6	7279.8	9253.2	12289.3	19030.2	28408.1	35313.7	32739.1	29358.6	18396.5
60°	2861.5	2849.0	3587.5	5962.5	11565.8	23111.7	33375.2	33919.1	29668.0	17835.2
62.5°	1731.4	1768.8	1888.6	2676.9	5109.3	14357.5	28907.1	32576.9	29875.1	17321.3
65°	1432.0	1434.5	1449.5	1838.7	2447.4	6007.4	21762.0	28161.1	29363.6	16405.7
67.5°	1227.4	1249.9	1307.3	1459.4	1726.4	2634.5	12528.8	21814.4	26252.6	14275.2
70°	968.0	997.9	1070.3	1200.0	1332.2	1649.1	4630.3	14514.7	20055.6	10760.0
72.5°	815.8	813.3	850.7	975.5	1057.8	1160.1	1781.3	8133.0	11655.6	5136.8
75°	631.2	656.1	703.5	815.8	865.7	840.7	965.5	2971.3	4176.3	1556.7
77.5°	494.0	513.9	556.3	666.1	716.0	596.3	556.3	1062.8	1342.2	558.8
80°	222.0	239.5	379.2	491.5	583.8	411.6	301.9	543.9	596.3	254.5
82.5°	39.9	67.4	222.0	259.5	299.4	266.9	157.2	281.9	291.9	102.3
85°	2.5	5.0	77.3	94.8	119.7	87.3	47.4	112.3	97.3	34.9
87.5°	0.0	0.0	0.0	2.5	2.5	12.5	15.0	20.0	15.0	12.5
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°
9749.6	0°	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6	9749.6
9772.1	2.5°	9592.5	9238.2	8893.9	8612.0	8447.3	8167.9	7983.3	7953.4	7876.0	7943.4
9797.0	5°	9407.8	8774.2	8133.0	7559.2	7087.7	6479.0	6024.9	5832.8	5665.7	5723.0
9861.9	7.5°	9320.5	8320.1	7322.2	6341.7	5333.9	4360.9	3637.4	3335.5	3106.0	3138.4
9934.2	10°	9203.3	7848.6	6284.4	4787.5	3437.8	2477.3	1978.4	1793.8	1691.5	1694.0
10041.5	12.5°	9113.5	7284.8	5079.4	3245.7	2093.1	1581.7	1427.0	1382.1	1352.2	1354.7
10203.7	15°	9068.5	6621.2	3889.4	2163.0	1496.9	1339.7	1302.3	1282.3	1262.4	1259.9
10383.3	17.5°	8993.7	5882.7	2846.6	1579.2	1309.8	1254.9	1222.4	1200.0	1175.0	1170.1
10538.0	20°	8881.4	5044.5	2080.7	1334.7	1227.4	1185.0	1140.1	1110.2	1080.2	1075.3
10635.3	22.5°	8674.4	4158.8	1599.2	1234.9	1167.6	1120.2	1065.3	1030.3	1000.4	995.4
10587.9	25°	8290.2	3328.0	1347.2	1172.5	1115.2	1057.8	997.9	950.5	923.1	918.1
10485.6	27.5°	7803.7	2614.5	1222.4	1115.2	1047.8	995.4	928.1	883.2	858.2	853.2
10350.9	30°	7229.9	2013.3	1150.1	1050.3	968.0	923.1	863.2	825.8	810.8	810.8
10256.1	32.5°	6611.2	1609.1	1120.2	985.4	898.1	848.2	800.8	785.9	780.9	778.4
10308.5	35°	6029.9	1397.1	1105.2	933.0	835.8	788.4	768.4	770.9	780.9	780.9
10470.6	37.5°	5513.5	1329.7	1097.7	895.6	780.9	738.5	750.9	773.4	763.4	763.4
10755.0	40°	5047.0	1337.2	1092.7	868.2	736.0	711.0	736.0	718.5	693.6	691.1
11101.8	42.5°	4690.2	1399.6	1082.7	845.7	708.5	691.1	681.1	653.6	651.1	656.1
11461.0	45°	4430.7	1454.5	1080.2	835.8	678.6	646.1	633.7	606.2	656.1	668.6
11608.2	47.5°	4123.9	1454.5	1080.2	800.8	628.7	616.2	596.3	566.3	616.2	628.7
11468.5	50°	3727.2	1362.2	1037.8	760.9	588.8	581.3	546.4	508.9	499.0	506.4
11141.7	52.5°	3225.8	1195.0	930.6	706.0	548.9	533.9	491.5	464.0	456.5	456.5
10555.4	55°	2654.5	1000.4	785.9	626.2	506.4	479.0	449.1	436.6	429.1	424.1
9734.7	57.5°	2158.0	820.8	631.2	556.3	466.5	431.6	421.6	406.7	394.2	386.7
9048.6	60°	1771.3	646.1	521.4	494.0	426.6	394.2	391.7	371.7	339.3	334.3
8482.3	62.5°	1367.1	474.0	439.1	429.1	386.7	359.2	354.3	314.3	264.4	254.5
7678.9	65°	965.5	369.2	354.3	376.7	344.3	319.3	306.9	247.0	194.6	187.1
6426.6	67.5°	678.6	309.4	279.4	329.3	299.4	266.9	259.5	209.6	162.2	157.2
4859.8	70°	484.0	252.0	229.5	281.9	239.5	234.5	219.5	174.6	132.2	127.2
2405.0	72.5°	341.8	192.1	177.1	244.5	164.7	202.1	179.6	134.7	99.8	94.8
818.3	75°	252.0	137.2	124.7	142.2	119.7	152.2	127.2	89.8	62.4	59.9
369.2	77.5°	184.6	87.3	74.8	69.9	69.9	94.8	69.9	37.4	27.4	24.9
187.1	80°	129.7	39.9	34.9	29.9	27.4	22.5	10.0	5.0	2.5	2.5
64.9	82.5°	77.3	17.5	17.5	12.5	7.5	0.0	0.0	0.0	0.0	0.0
24.9	85°	17.5	7.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
10.0	87.5°	2.5	2.5	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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