

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: P957201

Luminaire Tested: **GALN-SB9C-850-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957201  
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-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

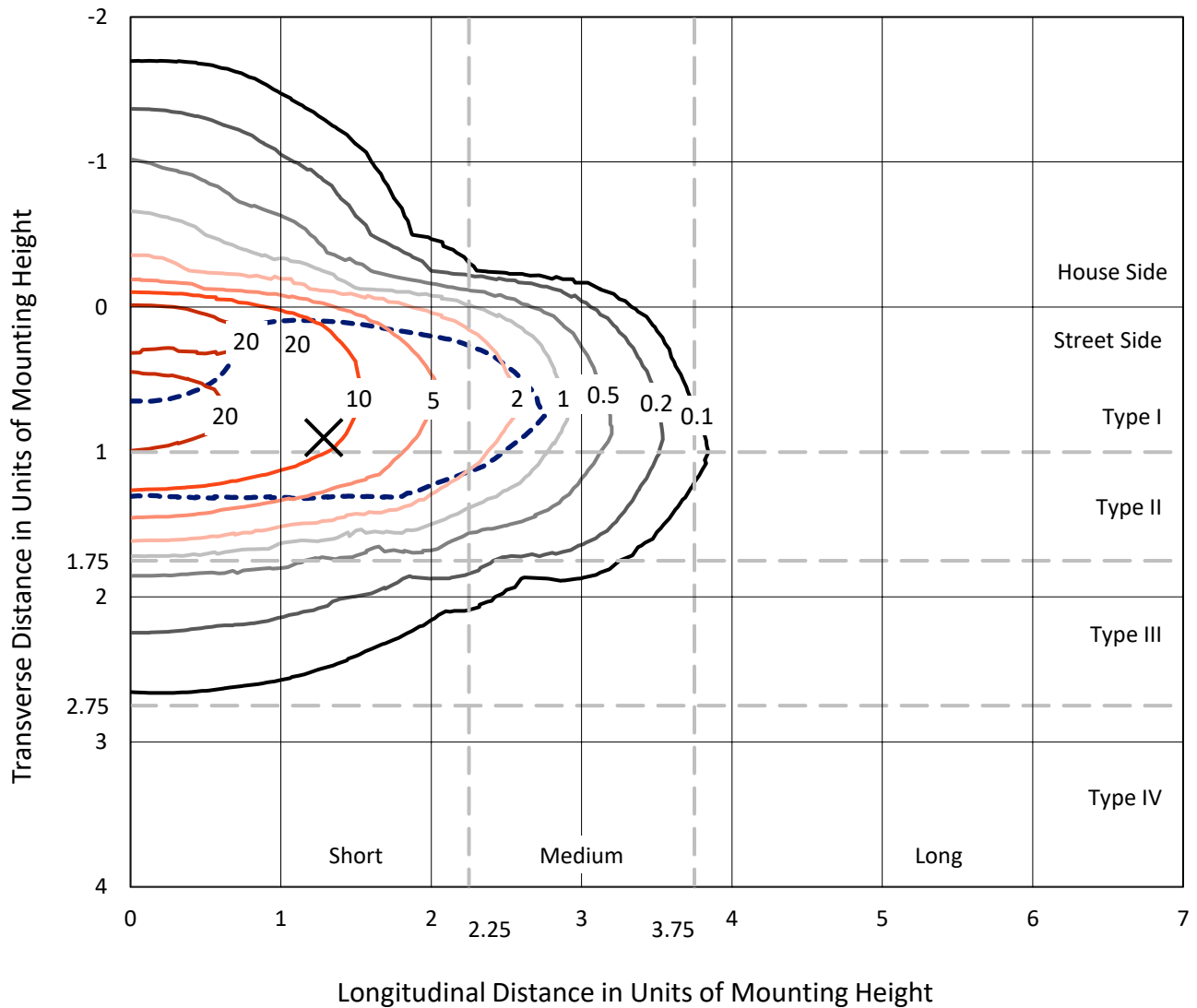
Lumens per Lamp: N/A  
Luminaire Lumens: 55632 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

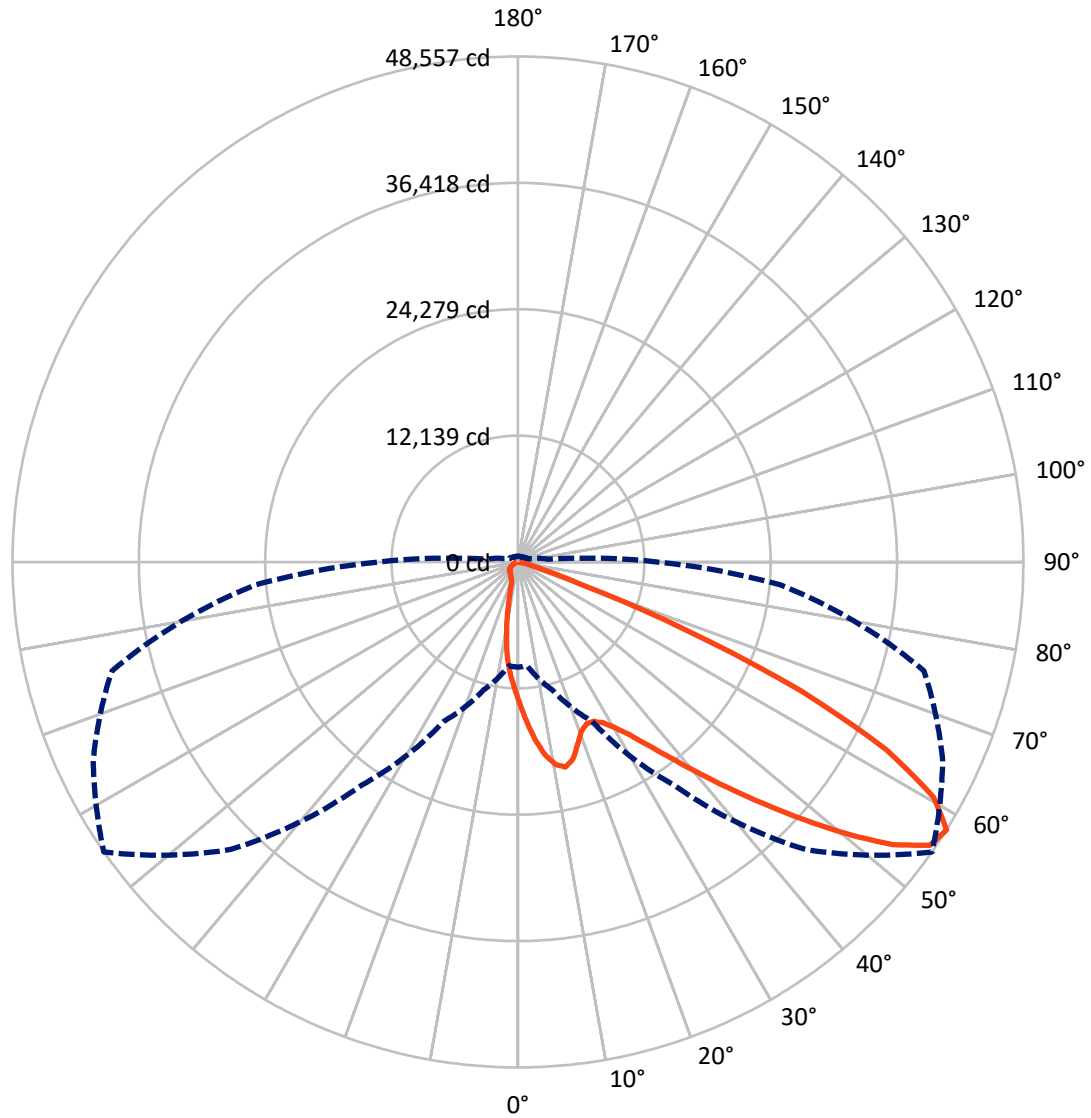
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.7 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	4344.6	0.0	4344.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	51287.4	0.0	51287.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	55632.0	0.0	55632.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1247.3	2.2
10°-20°	3013.0	5.4
20°-30°	4820.7	8.7
30°-40°	8159.4	14.7
40°-50°	13395.9	24.1
50°-60°	14723.1	26.5
60°-70°	8445.2	15.2
70°-80°	1725.6	3.1
80°-90°	101.8	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°	55632.0	100.0
0°-180°	55632.0	100.0

**Coefficient of Utilization**



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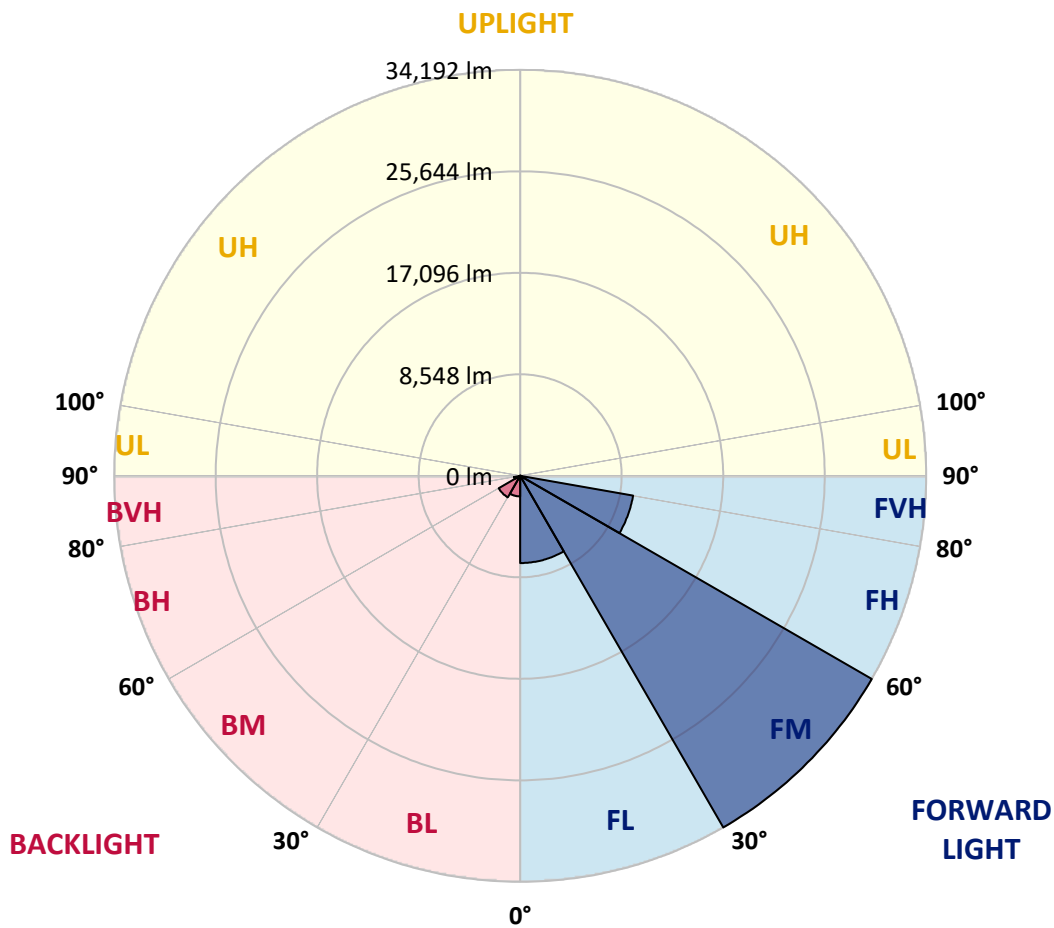
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7346.5	13.2			
FM (30°-60°)	34191.8	61.5			
FH (60°-80°)	9654.1	17.4			G4/12000
FVH (80°-90°)	94.9	0.2			G1/100
BL (0°-30°)	1734.5	3.1	B3/2500		
BM (30°-60°)	2086.6	3.8	B2/2500		
BH (60°-80°)	516.7	0.9	B2/1000		G2/1000
BVH (80°-90°)	6.9	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°	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9
2.5°	16633.9	16424.7	16393.8	16352.6	15954.7	15656.3	15224.0	14750.7	14218.9	13676.9
5°	19217.0	19052.4	19021.5	18829.4	18376.6	17868.9	17100.5	16129.7	15138.3	13972.0
7.5°	19717.8	19687.0	19827.6	19820.8	19759.0	19357.7	18709.3	17553.3	16064.5	14335.6
10°	17484.7	17563.6	17982.1	18349.1	19340.5	19916.8	19776.2	18822.5	17018.1	14750.7
12.5°	15450.4	15357.8	15656.3	16071.3	17224.0	18939.2	20218.7	19882.5	18109.0	15220.6
15°	14174.3	14136.6	14304.7	14496.8	15375.0	17103.9	19704.1	20743.5	19158.7	15776.3
17.5°	13766.1	13735.3	13786.7	13834.7	14404.2	15742.0	18479.5	21271.8	20163.8	16411.0
20°	14098.9	14057.7	14050.9	14013.1	14249.8	15162.3	17371.5	21309.5	21066.0	16987.3
22.5°	15069.7	15021.7	14853.6	14702.6	14723.2	15241.2	16877.5	20932.2	21745.2	17525.8
25°	16829.5	16750.6	16400.7	15893.0	15570.5	15790.1	16953.0	20434.8	22393.5	17947.8
27.5°	19031.8	18928.9	18479.5	17724.8	16987.3	16719.7	17498.4	20091.8	22932.1	18270.2
30°	21189.5	21055.7	20613.2	20026.6	18949.4	18105.6	18482.9	20242.7	23573.6	18606.4
32.5°	23518.7	23391.8	22805.2	22078.0	21186.1	20050.6	19831.1	20980.2	24359.2	19076.4
35°	26465.4	26266.5	25432.9	24441.5	23494.7	22345.5	21656.0	22252.9	25405.4	19793.3
37.5°	29820.3	29552.8	28654.0	27285.3	26050.3	24763.9	23878.9	24002.4	26938.8	20753.8
40°	32983.1	32739.6	31909.4	30619.6	29069.1	27508.2	26564.9	26290.5	29055.4	21923.6
42.5°	34880.1	34660.6	34310.7	33765.3	32458.3	30866.6	29676.3	29082.8	31559.5	23323.2
45°	34986.5	34794.4	35264.3	35899.0	35641.7	34581.7	33130.6	32043.2	34074.0	24637.0
47.5°	33285.0	33154.7	34581.7	36797.7	37902.3	38348.3	37010.4	34756.7	36149.4	25580.4
50°	28647.1	28599.1	31535.5	35604.0	38763.3	41648.3	41102.9	37281.4	37758.2	26067.5
52.5°	24839.4	24664.5	26376.2	31782.5	37511.2	43384.1	45102.7	39758.2	38883.4	26160.1
55°	18839.7	18685.3	20832.7	25388.3	33473.7	42766.6	48028.8	42313.8	39689.5	25923.4
57.5°	10105.9	10009.9	12723.3	16898.1	26167.0	39061.8	48557.1	45016.9	40368.8	25295.7
60°	3934.7	3917.5	4932.9	8198.6	15903.3	31779.1	45891.7	46639.5	40794.1	24523.8
62.5°	2380.7	2432.1	2596.8	3680.8	7025.4	19741.9	39747.9	44794.0	41078.8	23817.2
65°	1969.0	1972.5	1993.1	2528.2	3365.2	8260.4	29923.2	38722.2	40375.6	22558.2
67.5°	1687.7	1718.6	1797.5	2006.8	2373.8	3622.5	17227.4	29995.3	36097.9	19628.7
70°	1331.0	1372.2	1471.6	1650.0	1831.8	2267.5	6366.8	19958.0	27576.9	14795.2
72.5°	1121.7	1118.3	1169.8	1341.3	1454.5	1595.1	2449.3	11183.1	16026.8	7063.2
75°	867.9	902.2	967.4	1121.7	1190.3	1156.0	1327.6	4085.6	5742.5	2140.6
77.5°	679.2	706.7	765.0	915.9	984.5	819.9	765.0	1461.3	1845.5	768.4
80°	305.3	329.3	521.4	675.8	802.7	566.0	415.1	747.8	819.9	349.9
82.5°	54.9	92.6	305.3	356.8	411.6	367.1	216.1	387.6	401.4	140.6
85°	3.4	6.9	106.3	130.4	164.7	120.1	65.2	154.4	133.8	48.0
87.5°	0.0	0.0	0.0	3.4	3.4	17.2	20.6	27.4	20.6	17.2
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°
13405.9	0°	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9	13405.9
13436.8	2.5°	13189.8	12702.7	12229.3	11841.7	11615.3	11231.1	10977.2	10936.1	10829.7	10922.3
13471.1	5°	12936.0	12064.7	11183.1	10394.1	9745.7	8908.7	8284.4	8020.2	7790.4	7869.3
13560.3	7.5°	12815.9	11440.3	10068.2	8720.0	7334.2	5996.3	5001.5	4586.4	4270.8	4315.4
13659.8	10°	12654.7	10792.0	8641.1	6582.9	4727.1	3406.4	2720.3	2466.4	2325.8	2329.2
13807.3	12.5°	12531.2	10016.7	6984.3	4462.9	2878.1	2174.9	1962.2	1900.4	1859.3	1862.7
14030.3	15°	12469.4	9104.2	5348.0	2974.1	2058.2	1842.1	1790.7	1763.2	1735.8	1732.3
14277.3	17.5°	12366.5	8088.8	3914.1	2171.4	1801.0	1725.5	1680.9	1650.0	1615.7	1608.9
14489.9	20°	12212.2	6936.2	2860.9	1835.3	1687.7	1629.4	1567.7	1526.5	1485.4	1478.5
14623.7	22.5°	11927.4	5718.5	2198.9	1698.0	1605.4	1540.2	1464.8	1416.7	1375.6	1368.7
14558.5	25°	11399.2	4576.1	1852.4	1612.3	1533.4	1454.5	1372.2	1307.0	1269.2	1262.4
14417.9	27.5°	10730.2	3595.0	1680.9	1533.4	1440.8	1368.7	1276.1	1214.4	1180.1	1173.2
14232.7	30°	9941.3	2768.3	1581.4	1444.2	1331.0	1269.2	1186.9	1135.5	1114.9	1114.9
14102.3	32.5°	9090.5	2212.6	1540.2	1355.0	1234.9	1166.3	1101.2	1080.6	1073.7	1070.3
14174.3	35°	8291.2	1921.0	1519.7	1283.0	1149.2	1084.0	1056.6	1060.0	1073.7	1073.7
14397.3	37.5°	7581.1	1828.4	1509.4	1231.5	1073.7	1015.4	1032.5	1063.4	1049.7	1049.7
14788.4	40°	6939.7	1838.7	1502.5	1193.8	1012.0	977.7	1012.0	988.0	953.6	950.2
15265.2	42.5°	6449.1	1924.4	1488.8	1162.9	974.2	950.2	936.5	898.8	895.3	902.2
15759.2	45°	6092.4	1999.9	1485.4	1149.2	933.1	888.5	871.3	833.6	902.2	919.3
15961.6	47.5°	5670.4	1999.9	1485.4	1101.2	864.5	847.3	819.9	778.7	847.3	864.5
15769.5	50°	5125.0	1873.0	1427.0	1046.3	809.6	799.3	751.3	699.8	686.1	696.4
15320.1	52.5°	4435.5	1643.2	1279.5	970.8	754.7	734.1	675.8	638.1	627.8	627.8
14514.0	55°	3649.9	1375.6	1080.6	861.0	696.4	658.6	617.5	600.3	590.0	583.2
13385.4	57.5°	2967.3	1128.6	867.9	765.0	641.5	593.5	579.7	559.2	542.0	531.7
12442.0	60°	2435.6	888.5	717.0	679.2	586.6	542.0	538.6	511.1	466.5	459.7
11663.3	62.5°	1879.9	651.8	603.7	590.0	531.7	494.0	487.1	432.2	363.6	349.9
10558.7	65°	1327.6	507.7	487.1	518.0	473.4	439.1	421.9	339.6	267.6	257.3
8836.7	67.5°	933.1	425.4	384.2	452.8	411.6	367.1	356.8	288.2	223.0	216.1
6682.4	70°	665.5	346.5	315.6	387.6	329.3	322.5	301.9	240.1	181.8	174.9
3306.9	72.5°	470.0	264.1	243.6	336.2	226.4	277.9	247.0	185.2	137.2	130.4
1125.2	75°	346.5	188.7	171.5	195.5	164.7	209.3	174.9	123.5	85.8	82.3
507.7	77.5°	253.8	120.1	102.9	96.1	96.1	130.4	96.1	51.5	37.7	34.3
257.3	80°	178.4	54.9	48.0	41.2	37.7	30.9	13.7	6.9	3.4	3.4
89.2	82.5°	106.3	24.0	24.0	17.2	10.3	0.0	0.0	0.0	0.0	0.0
34.3	85°	24.0	10.3	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
13.7	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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