

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: P953127

Luminaire Tested: **GALN-SB6D-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953127  
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-SB6D-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

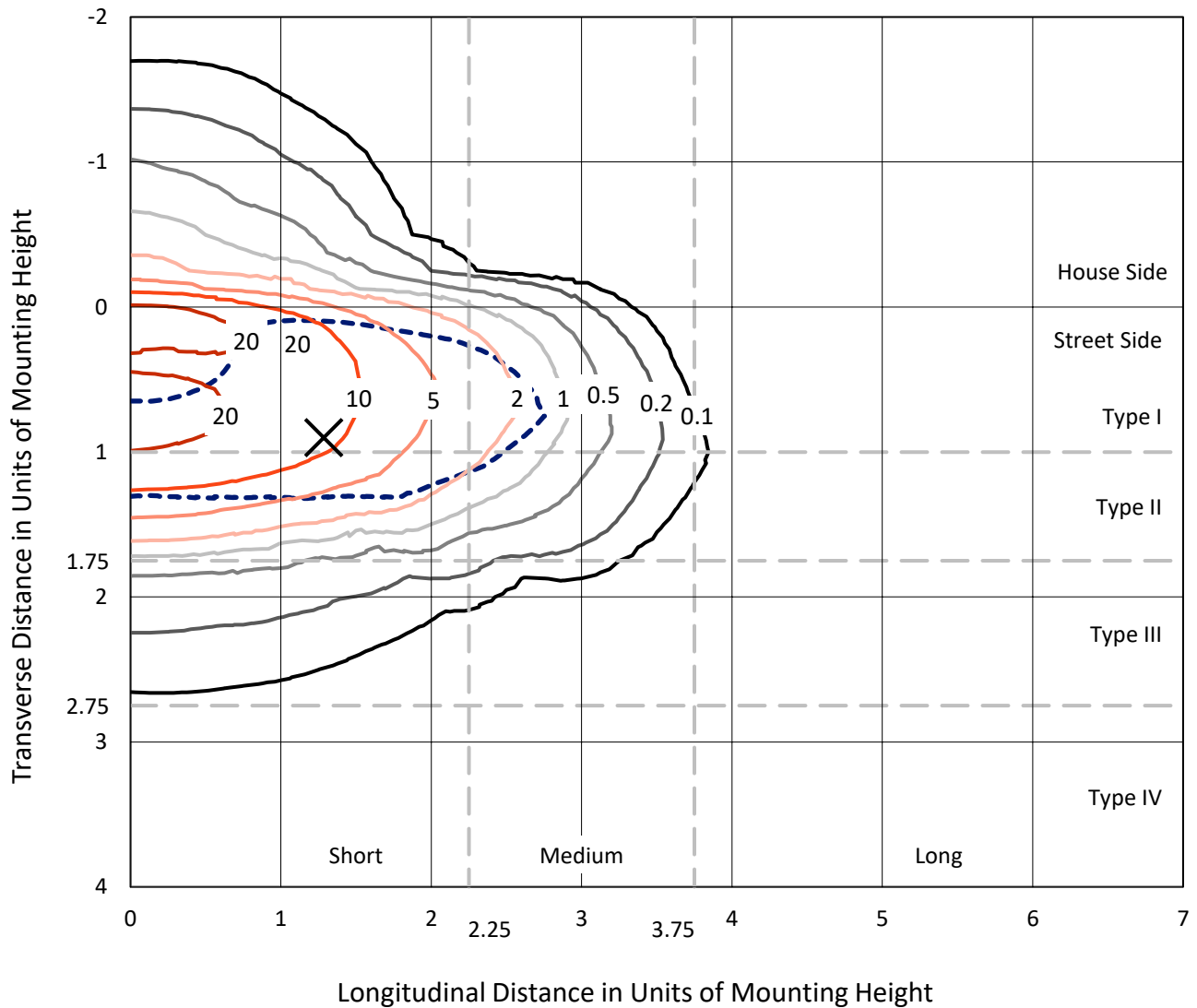
Lumens per Lamp: N/A  
Luminaire Lumens: 55664 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

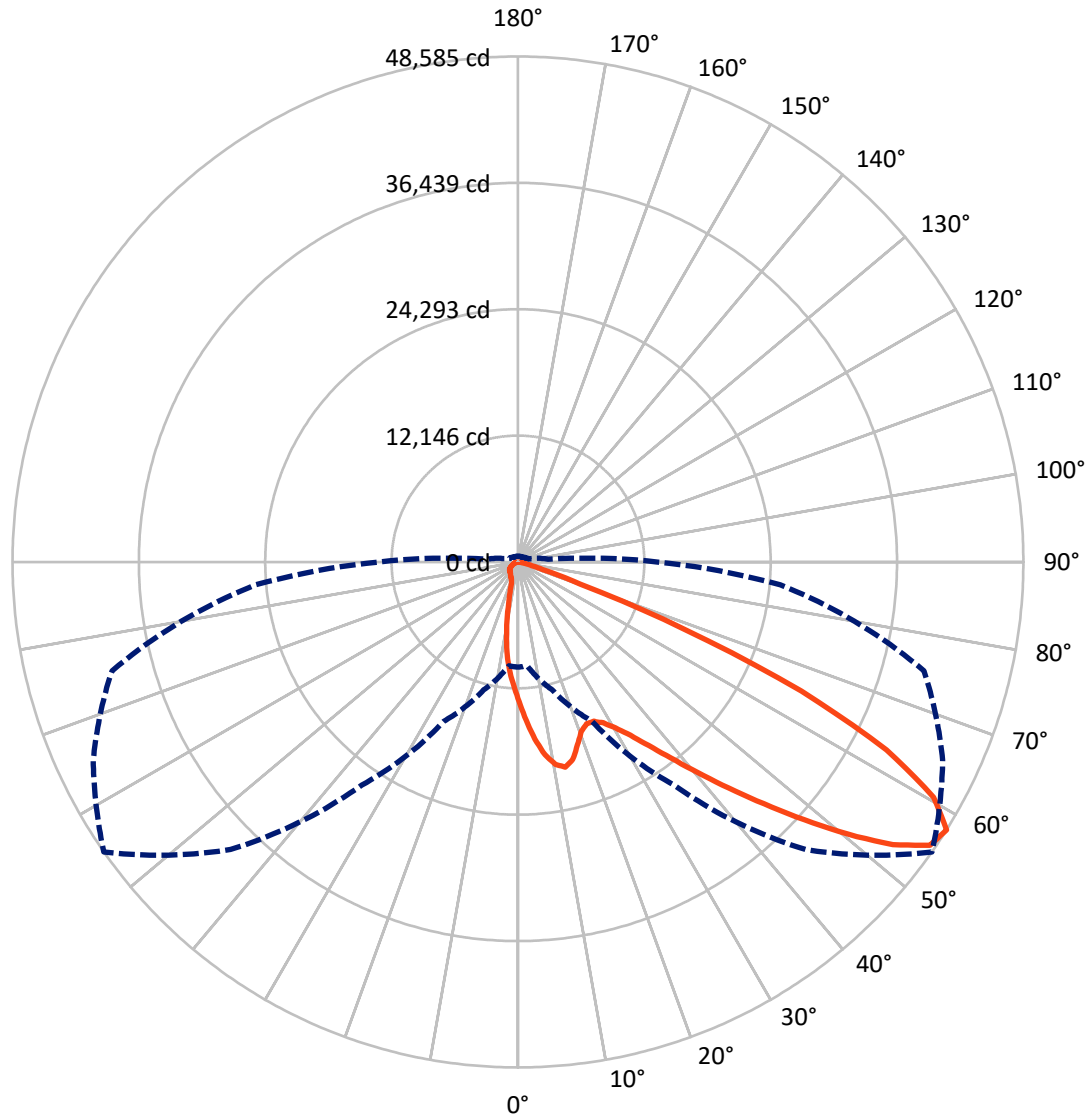
✕ Max cd  
 - - - 1/2 Max cd



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	4347.1	0.0	4347.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	51316.9	0.0	51316.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	55664.0	0.0	55664.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1248.1	2.2
10°-20°	3014.7	5.4
20°-30°	4823.5	8.7
30°-40°	8164.1	14.7
40°-50°	13403.7	24.1
50°-60°	14731.6	26.5
60°-70°	8450.0	15.2
70°-80°	1726.6	3.1
80°-90°	101.9	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°	55664.0	100.0
0°-180°	55664.0	100.0

**Coefficient of Utilization**



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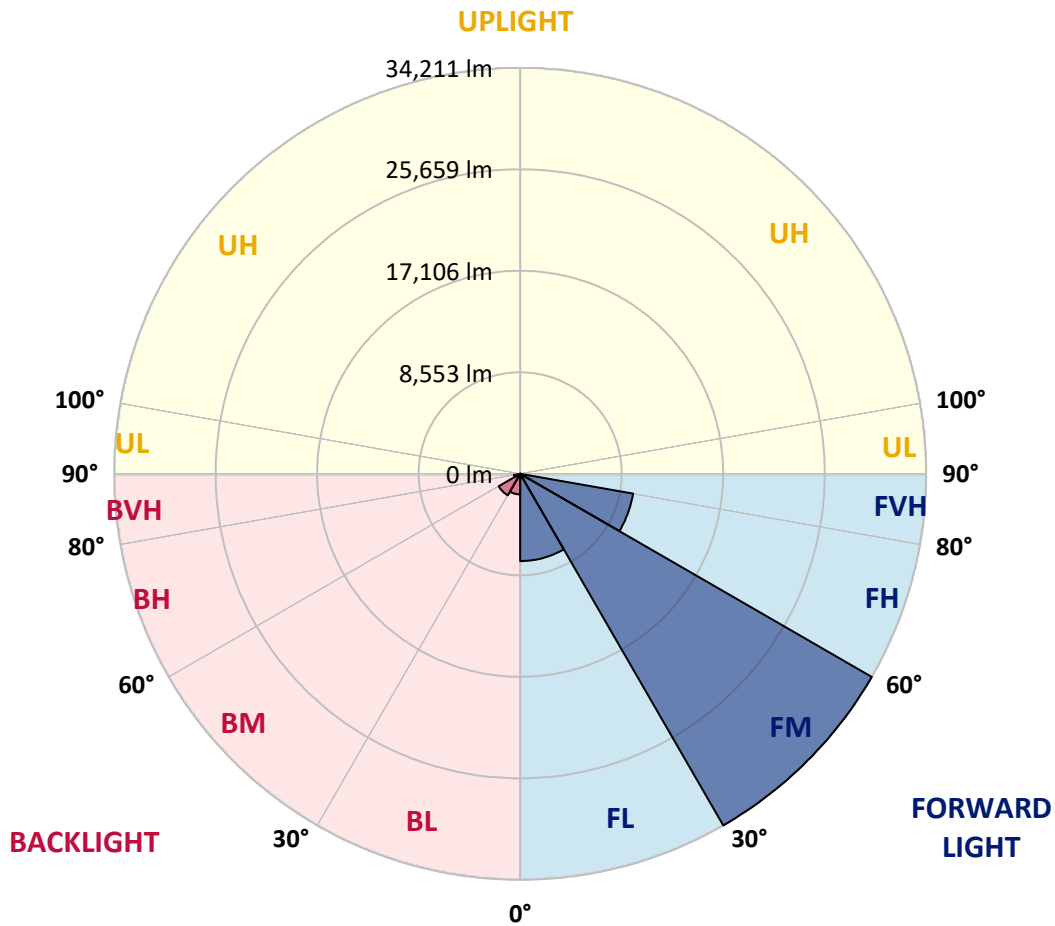
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7350.8	13.2			
FM (30°-60°)	34211.5	61.5			
FH (60°-80°)	9659.6	17.4			G4/12000
FVH (80°-90°)	95.0	0.2			G1/100
BL (0°-30°)	1735.5	3.1	B3/2500		
BM (30°-60°)	2087.8	3.8	B2/2500		
BH (60°-80°)	517.0	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°	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7
2.5°	16643.5	16434.1	16403.2	16362.0	15963.9	15665.3	15232.8	14759.1	14227.1	13684.8
5°	19228.1	19063.3	19032.4	18840.2	18387.1	17879.1	17110.3	16138.9	15147.0	13980.0
7.5°	19729.2	19698.3	19839.0	19832.2	19770.4	19368.8	18720.1	17563.4	16073.7	14343.8
10°	17494.7	17573.7	17992.4	18359.7	19351.6	19928.3	19787.5	18833.3	17027.9	14759.1
12.5°	15459.3	15366.7	15665.3	16080.6	17233.9	18950.0	20230.3	19893.9	18119.4	15229.4
15°	14182.5	14144.7	14312.9	14505.1	15383.8	17113.7	19715.5	20755.5	19169.7	15785.4
17.5°	13774.0	13743.2	13794.6	13842.7	14412.5	15751.1	18490.1	21284.0	20175.4	16420.4
20°	14107.0	14065.8	14058.9	14021.2	14258.0	15171.0	17381.5	21321.8	21078.1	16997.0
22.5°	15078.3	15030.3	14862.1	14711.1	14731.7	15250.0	16887.2	20944.2	21757.7	17535.9
25°	16839.1	16760.2	16410.1	15902.1	15579.5	15799.1	16962.7	20446.6	22406.4	17958.1
27.5°	19042.7	18939.7	18490.1	17735.0	16997.0	16729.3	17508.5	20103.3	22945.3	18280.7
30°	21201.7	21067.8	20625.0	20038.1	18960.3	18116.0	18493.5	20254.3	23587.2	18617.1
32.5°	23532.2	23405.2	22818.3	22090.7	21198.2	20062.1	19842.5	20992.3	24373.2	19087.3
35°	26480.6	26281.6	25447.5	24455.5	23508.2	22358.4	21668.5	22265.7	25420.0	19804.7
37.5°	29837.5	29569.8	28670.5	27301.0	26065.3	24778.2	23892.6	24016.2	26954.3	20765.8
40°	33002.1	32758.4	31927.8	30637.2	29085.8	27524.1	26580.2	26305.6	29072.1	21936.2
42.5°	34900.2	34680.5	34330.4	33784.7	32477.0	30884.4	29693.3	29099.5	31577.7	23336.6
45°	35006.6	34814.4	35284.6	35919.6	35662.2	34601.6	33149.7	32061.6	34093.6	24651.2
47.5°	33304.2	33173.7	34601.6	36818.9	37924.1	38370.3	37031.7	34776.6	36170.2	25595.1
50°	28663.6	28615.6	31553.7	35624.4	38785.6	41672.2	41126.5	37302.9	37780.0	26082.5
52.5°	24853.7	24678.6	26391.4	31800.8	37532.8	43409.0	45128.6	39781.0	38905.8	26175.2
55°	18850.5	18696.0	20844.7	25402.9	33492.9	42791.2	48056.4	42338.1	39712.4	25938.3
57.5°	10111.7	10015.6	12730.6	16907.8	26182.0	39084.3	48585.0	45042.8	40392.0	25310.2
60°	3936.9	3919.8	4935.7	8203.3	15912.4	31797.4	45918.1	46666.3	40817.6	24537.9
62.5°	2382.1	2433.5	2598.3	3682.9	7029.5	19753.2	39770.7	44819.7	41102.5	23830.9
65°	1970.2	1973.6	1994.2	2529.6	3367.1	8265.1	29940.5	38744.4	40398.8	22571.2
67.5°	1688.7	1719.6	1798.6	2007.9	2375.2	3624.6	17237.3	30012.5	36118.7	19639.9
70°	1331.8	1372.9	1472.5	1651.0	1832.9	2268.8	6370.5	19969.5	27592.7	14803.8
72.5°	1122.4	1118.9	1170.4	1342.1	1455.3	1596.0	2450.7	11189.5	16036.0	7067.2
75°	868.4	902.7	967.9	1122.4	1191.0	1156.7	1328.3	4087.9	5745.8	2141.8
77.5°	679.6	707.1	765.4	916.4	985.1	820.3	765.4	1462.2	1846.6	768.8
80°	305.5	329.5	521.7	676.2	803.2	566.3	415.3	748.3	820.3	350.1
82.5°	54.9	92.7	305.5	357.0	411.9	367.3	216.2	387.9	401.6	140.7
85°	3.4	6.9	106.4	130.4	164.8	120.1	65.2	154.5	133.9	48.1
87.5°	0.0	0.0	0.0	3.4	3.4	17.2	20.6	27.5	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°
13413.7	0°	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7	13413.7
13444.5	2.5°	13197.4	12710.0	12236.4	11848.5	11622.0	11237.5	10983.5	10942.4	10836.0	10928.6
13478.9	5°	12943.4	12071.6	11189.5	10400.0	9751.3	8913.8	8289.1	8024.9	7794.9	7873.8
13568.1	7.5°	12823.3	11446.9	10074.0	8725.1	7338.4	5999.8	5004.4	4589.1	4273.3	4317.9
13667.6	10°	12662.0	10798.2	8646.1	6586.7	4729.8	3408.3	2721.9	2467.9	2327.1	2330.6
13815.2	12.5°	12538.4	10022.5	6988.3	4465.5	2879.7	2176.1	1963.3	1901.5	1860.3	1863.8
14038.3	15°	12476.6	9109.5	5351.0	2975.9	2059.4	1843.2	1791.7	1764.2	1736.8	1733.3
14285.5	17.5°	12373.6	8093.5	3916.3	2172.7	1802.0	1726.5	1681.9	1651.0	1616.6	1609.8
14498.3	20°	12219.2	6940.2	2862.6	1836.3	1688.7	1630.4	1568.6	1527.4	1486.2	1479.3
14632.1	22.5°	11934.3	5721.7	2200.1	1699.0	1606.3	1541.1	1465.6	1417.6	1376.4	1369.5
14566.9	25°	11405.7	4578.8	1853.5	1613.2	1534.3	1455.3	1372.9	1307.7	1270.0	1263.1
14426.2	27.5°	10736.4	3597.1	1681.9	1534.3	1441.6	1369.5	1276.8	1215.1	1180.7	1173.9
14240.9	30°	9947.0	2769.9	1582.3	1445.0	1331.8	1270.0	1187.6	1136.1	1115.5	1115.5
14110.4	32.5°	9095.7	2213.9	1541.1	1355.8	1235.6	1167.0	1101.8	1081.2	1074.3	1070.9
14182.5	35°	8296.0	1922.1	1520.5	1283.7	1149.8	1084.6	1057.2	1060.6	1074.3	1074.3
14405.6	37.5°	7585.5	1829.4	1510.2	1232.2	1074.3	1016.0	1033.1	1064.0	1050.3	1050.3
14796.9	40°	6943.7	1839.7	1503.4	1194.5	1012.5	978.2	1012.5	988.5	954.2	950.8
15274.0	42.5°	6452.8	1925.6	1489.6	1163.6	974.8	950.8	937.0	899.3	895.8	902.7
15768.2	45°	6095.9	2001.1	1486.2	1149.8	933.6	889.0	871.8	834.1	902.7	919.9
15970.8	47.5°	5673.7	2001.1	1486.2	1101.8	865.0	847.8	820.3	779.1	847.8	865.0
15778.5	50°	5127.9	1874.1	1427.9	1046.9	810.0	799.7	751.7	700.2	686.5	696.8
15328.9	52.5°	4438.0	1644.1	1280.3	971.4	755.1	734.5	676.2	638.4	628.1	628.1
14522.3	55°	3652.0	1376.4	1081.2	861.5	696.8	659.0	617.8	600.7	590.4	583.5
13393.1	57.5°	2969.0	1129.2	868.4	765.4	641.9	593.8	580.1	559.5	542.3	532.0
12449.2	60°	2437.0	889.0	717.4	679.6	586.9	542.3	538.9	511.4	466.8	459.9
11670.0	62.5°	1880.9	652.1	604.1	590.4	532.0	494.3	487.4	432.5	363.8	350.1
10564.8	65°	1328.3	508.0	487.4	518.3	473.7	439.3	422.2	339.8	267.7	257.4
8841.8	67.5°	933.6	425.6	384.4	453.1	411.9	367.3	357.0	288.3	223.1	216.2
6686.2	70°	665.9	346.7	315.8	387.9	329.5	322.6	302.0	240.3	181.9	175.1
3308.8	72.5°	470.2	264.3	243.7	336.4	226.5	278.0	247.1	185.3	137.3	130.4
1125.8	75°	346.7	188.8	171.6	195.6	164.8	209.4	175.1	123.6	85.8	82.4
508.0	77.5°	254.0	120.1	103.0	96.1	96.1	130.4	96.1	51.5	37.8	34.3
257.4	80°	178.5	54.9	48.1	41.2	37.8	30.9	13.7	6.9	3.4	3.4
89.2	82.5°	106.4	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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