

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: P954660

Luminaire Tested: **GALN-SB7D-835-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954660  
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-SB7D-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

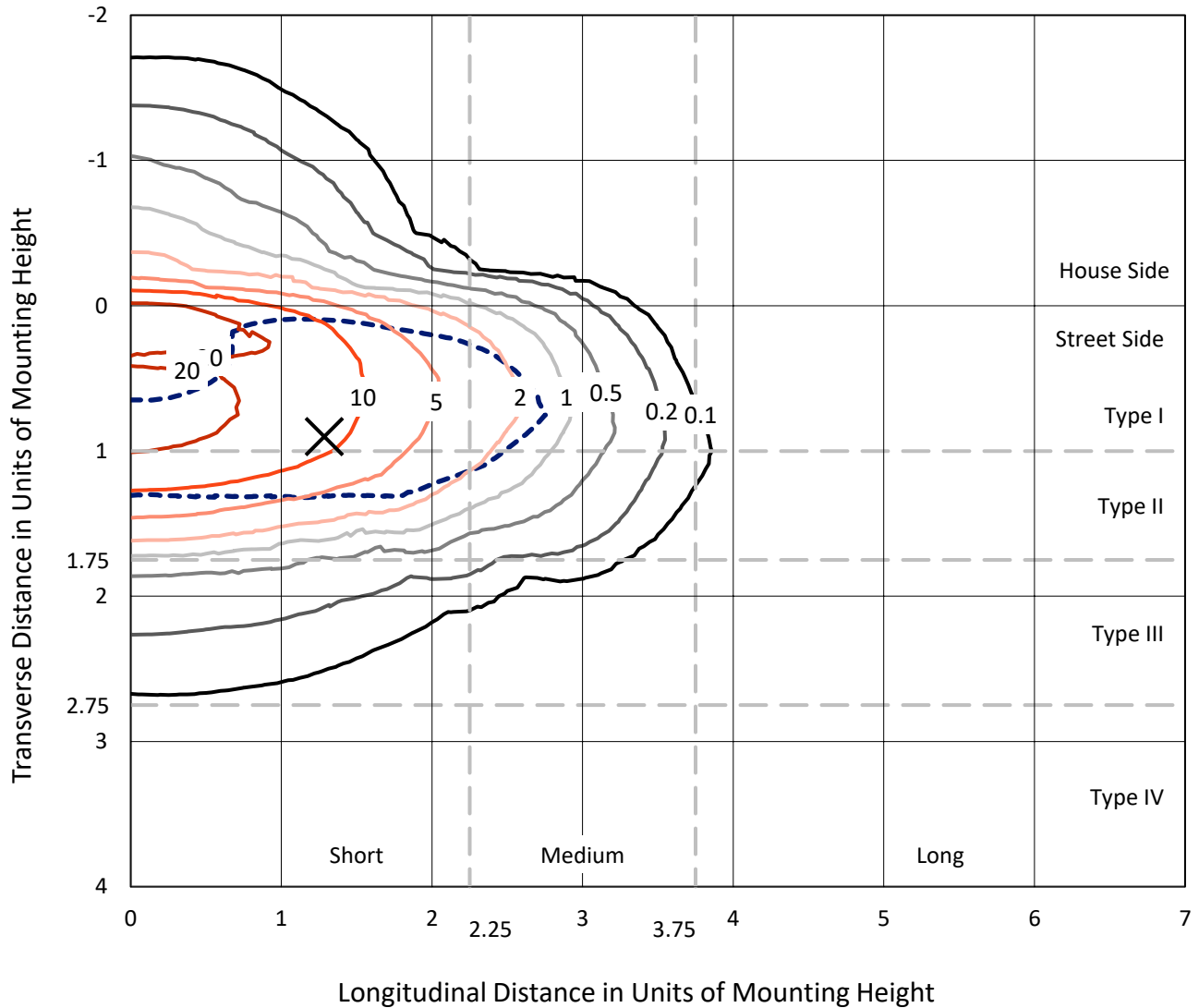
Lumens per Lamp: N/A  
Luminaire Lumens: 57232 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

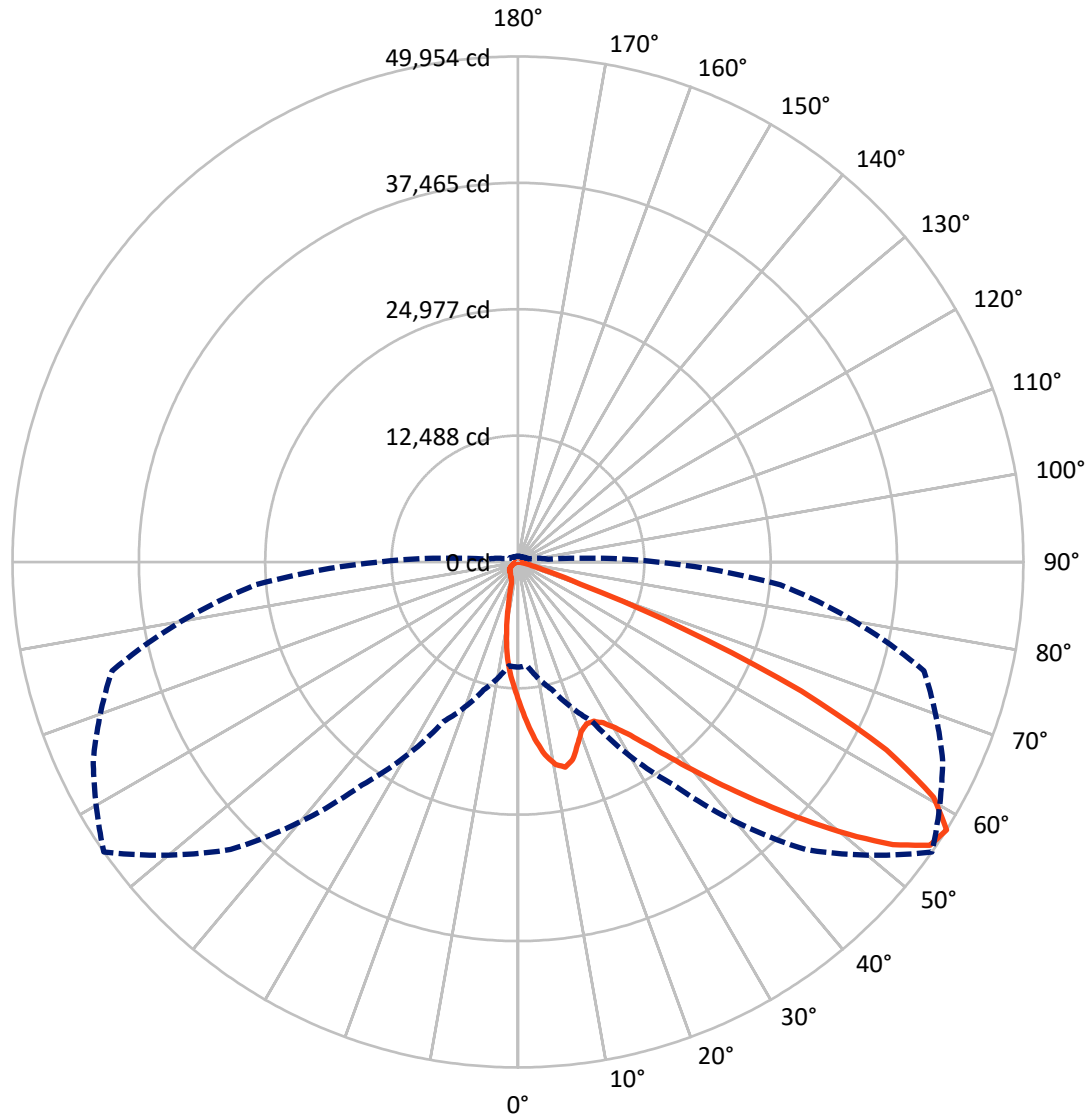
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.6 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	4469.6	0.0	4469.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	52762.4	0.0	52762.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	57232.0	0.0	57232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1283.2	2.2
10°-20°	3099.6	5.4
20°-30°	4959.4	8.7
30°-40°	8394.0	14.7
40°-50°	13781.2	24.1
50°-60°	15146.5	26.5
60°-70°	8688.1	15.2
70°-80°	1775.2	3.1
80°-90°	104.7	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°	57232.0	100.0
0°-180°	57232.0	100.0

**Coefficient of Utilization**



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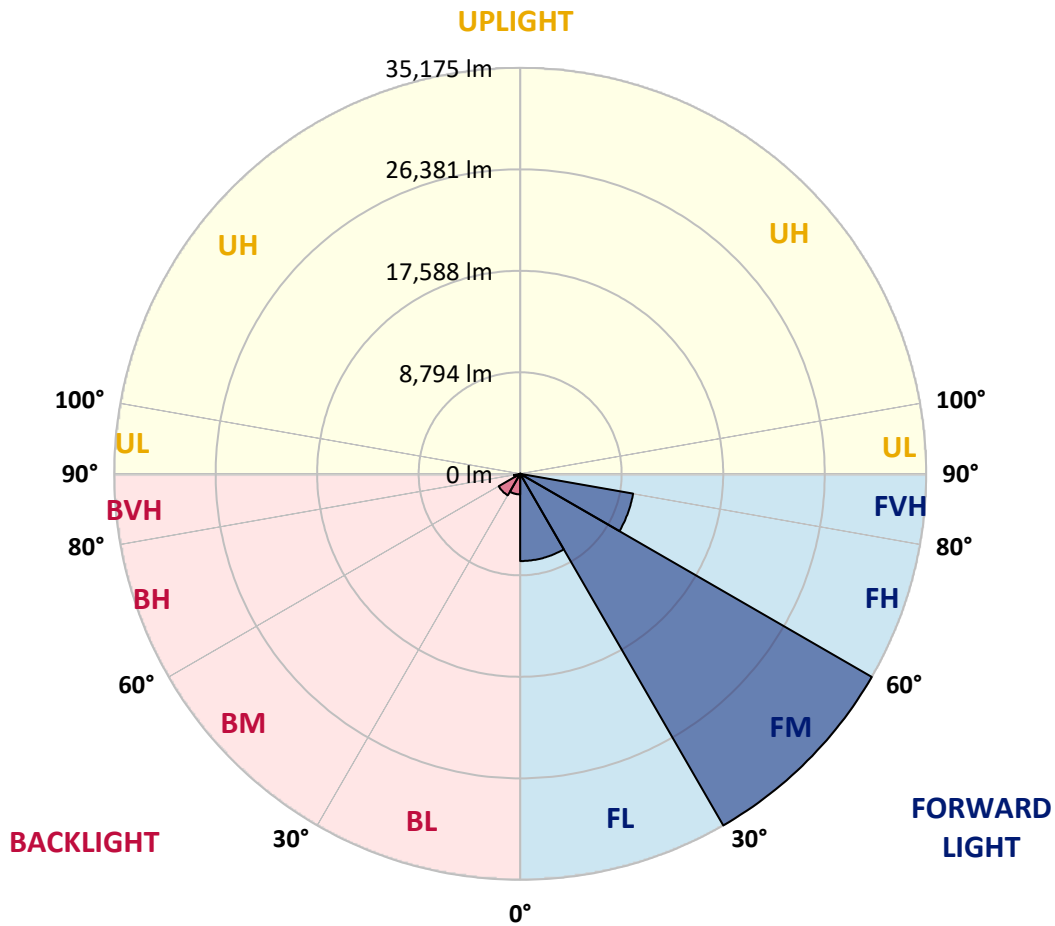
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7557.8	13.2			
FM (30°-60°)	35175.2	61.5			
FH (60°-80°)	9931.7	17.4			G4/12000
FVH (80°-90°)	97.7	0.2			G1/100
BL (0°-30°)	1784.4	3.1	B3/2500		
BM (30°-60°)	2146.6	3.8	B2/2500		
BH (60°-80°)	531.6	0.9	B2/1000		G2/1000
BVH (80°-90°)	7.1	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°	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5
2.5°	17112.3	16897.1	16865.3	16822.9	16413.6	16106.6	15661.9	15174.9	14627.9	14070.3
5°	19769.7	19600.3	19568.5	19370.9	18905.1	18382.8	17592.3	16593.6	15573.7	14373.8
7.5°	20284.9	20253.2	20397.9	20390.8	20327.3	19914.4	19247.4	18058.1	16526.5	14747.9
10°	17987.5	18068.7	18499.2	18876.9	19896.7	20489.6	20344.9	19363.9	17507.6	15174.9
12.5°	15894.8	15799.5	16106.6	16533.6	17719.3	19483.8	20800.2	20454.3	18629.8	15658.4
15°	14582.0	14543.2	14716.1	14913.7	15817.2	17595.8	20270.8	21340.1	19709.7	16230.1
17.5°	14162.1	14130.3	14183.2	14232.6	14818.5	16194.8	19011.0	21883.6	20743.7	16882.9
20°	14504.4	14462.0	14455.0	14416.1	14659.6	15598.4	17871.1	21922.4	21671.9	17475.8
22.5°	15503.1	15453.7	15280.8	15125.5	15146.7	15679.5	17362.9	21534.2	22370.6	18029.9
25°	17313.5	17232.3	16872.4	16350.1	16018.3	16244.2	17440.5	21022.5	23037.6	18464.0
27.5°	19579.1	19473.3	19011.0	18234.6	17475.8	17200.6	18001.7	20669.6	23591.7	18795.7
30°	21798.9	21661.3	21206.0	20602.6	19494.4	18626.3	19014.5	20824.9	24251.6	19141.5
32.5°	24195.1	24064.5	23461.1	22712.9	21795.4	20627.3	20401.4	21583.6	25059.7	19625.0
35°	27226.6	27021.9	26164.3	25144.4	24170.4	22988.2	22278.9	22892.9	26136.1	20362.6
37.5°	30678.0	30402.7	29478.1	28070.0	26799.6	25476.2	24565.7	24692.7	27713.6	21350.7
40°	33931.8	33681.2	32827.2	31500.2	29905.1	28299.4	27328.9	27046.6	29891.0	22554.1
42.5°	35883.3	35657.5	35297.5	34736.4	33391.8	31754.3	30529.8	29919.2	32467.2	23994.0
45°	35992.7	35795.1	36278.6	36931.4	36666.8	35576.3	34083.5	32964.8	35054.0	25345.6
47.5°	34242.3	34108.2	35576.3	37856.0	38992.4	39451.2	38074.8	35756.3	37189.1	26316.1
50°	29471.0	29421.6	32442.5	36627.9	39878.2	42846.1	42285.0	38353.6	38844.2	26817.2
52.5°	25553.8	25373.8	27134.8	32696.6	38590.1	44631.8	46399.9	40901.6	40001.7	26912.5
55°	19381.5	19222.7	21431.9	26118.4	34436.4	43996.6	49410.1	43530.7	40831.0	26669.0
57.5°	10396.6	10297.7	13089.2	17384.1	26919.5	40185.2	49953.6	46311.6	41529.8	26023.2
60°	4047.8	4030.2	5074.8	8434.4	16360.6	32693.1	47211.5	47980.9	41967.4	25229.1
62.5°	2449.2	2502.1	2671.5	3786.7	7227.5	20309.6	40891.0	46082.2	42260.3	24502.1
65°	2025.7	2029.2	2050.4	2600.9	3462.0	8497.9	30783.8	39835.8	41536.8	23207.0
67.5°	1736.3	1768.1	1849.2	2064.5	2442.1	3726.7	17722.9	30858.0	37136.1	20193.2
70°	1369.3	1411.6	1514.0	1697.5	1884.5	2332.7	6549.9	20532.0	28370.0	15220.8
72.5°	1154.0	1150.5	1203.4	1379.9	1496.3	1641.0	2519.7	11504.7	16487.7	7266.3
75°	892.8	928.1	995.2	1154.0	1224.6	1189.3	1365.7	4203.1	5907.6	2202.1
77.5°	698.8	727.0	787.0	942.3	1012.8	843.4	787.0	1503.4	1898.6	790.5
80°	314.1	338.8	536.4	695.2	825.8	582.3	427.0	769.3	843.4	360.0
82.5°	56.5	95.3	314.1	367.0	423.5	377.6	222.3	398.8	412.9	144.7
85°	3.5	7.1	109.4	134.1	169.4	123.5	67.1	158.8	137.6	49.4
87.5°	0.0	0.0	0.0	3.5	3.5	17.6	21.2	28.2	21.2	17.6
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°
13791.5	0°	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5	13791.5
13823.3	2.5°	13569.2	13068.0	12581.0	12182.3	11949.3	11554.1	11292.9	11250.6	11141.2	11236.5
13858.6	5°	13308.0	12411.6	11504.7	10693.0	10026.0	9164.9	8522.6	8250.9	8014.5	8095.6
13950.3	7.5°	13184.5	11769.4	10357.7	8970.8	7545.1	6168.8	5145.3	4718.3	4393.7	4439.5
14052.7	10°	13018.6	11102.4	8889.7	6772.2	4863.0	3504.3	2798.5	2537.4	2392.7	2396.2
14204.4	12.5°	12891.6	10304.8	7185.1	4591.3	2960.9	2237.4	2018.6	1955.1	1912.7	1916.3
14433.8	15°	12828.1	9366.1	5501.8	3059.7	2117.4	1895.1	1842.2	1813.9	1785.7	1782.2
14687.9	17.5°	12722.2	8321.5	4026.6	2233.9	1852.7	1775.1	1729.2	1697.5	1662.2	1655.1
14906.7	20°	12563.4	7135.7	2943.2	1888.0	1736.3	1676.3	1612.8	1570.4	1528.1	1521.0
15044.3	22.5°	12270.5	5882.9	2262.1	1746.9	1651.6	1584.5	1506.9	1457.5	1415.1	1408.1
14977.3	25°	11727.0	4707.7	1905.7	1658.7	1577.5	1496.3	1411.6	1344.6	1305.7	1298.7
14832.6	27.5°	11038.8	3698.4	1729.2	1577.5	1482.2	1408.1	1312.8	1249.3	1214.0	1206.9
14642.0	30°	10227.2	2847.9	1626.9	1485.7	1369.3	1305.7	1221.0	1168.1	1146.9	1146.9
14507.9	32.5°	9352.0	2276.2	1584.5	1394.0	1270.5	1199.9	1132.8	1111.6	1104.6	1101.1
14582.0	35°	8529.7	1976.3	1563.4	1319.9	1182.2	1115.2	1086.9	1090.5	1104.6	1104.6
14811.4	37.5°	7799.2	1881.0	1552.8	1266.9	1104.6	1044.6	1062.2	1094.0	1079.9	1079.9
15213.7	40°	7139.3	1891.6	1545.7	1228.1	1041.1	1005.8	1041.1	1016.4	981.1	977.5
15704.2	42.5°	6634.6	1979.8	1531.6	1196.3	1002.2	977.5	963.4	924.6	921.1	928.1
16212.4	45°	6267.6	2057.4	1528.1	1182.2	959.9	914.0	896.4	857.6	928.1	945.8
16420.6	47.5°	5833.5	2057.4	1528.1	1132.8	889.3	871.7	843.4	801.1	871.7	889.3
16223.0	50°	5272.4	1926.9	1468.1	1076.4	832.9	822.3	772.9	719.9	705.8	716.4
15760.7	52.5°	4563.1	1690.4	1316.3	998.7	776.4	755.2	695.2	656.4	645.8	645.8
14931.4	55°	3754.9	1415.1	1111.6	885.8	716.4	677.6	635.2	617.6	607.0	599.9
13770.3	57.5°	3052.6	1161.1	892.8	787.0	659.9	610.5	596.4	575.2	557.6	547.0
12799.8	60°	2505.6	914.0	737.6	698.8	603.5	557.6	554.1	525.8	479.9	472.9
11998.7	62.5°	1933.9	670.5	621.1	607.0	547.0	508.2	501.1	444.7	374.1	360.0
10862.4	65°	1365.7	522.3	501.1	532.9	487.0	451.7	434.1	349.4	275.3	264.7
9090.8	67.5°	959.9	437.6	395.3	465.8	423.5	377.6	367.0	296.4	229.4	222.3
6874.6	70°	684.6	356.4	324.7	398.8	338.8	331.7	310.6	247.0	187.0	180.0
3402.0	72.5°	483.5	271.7	250.6	345.8	232.9	285.9	254.1	190.6	141.2	134.1
1157.5	75°	356.4	194.1	176.5	201.2	169.4	215.3	180.0	127.0	88.2	84.7
522.3	77.5°	261.1	123.5	105.9	98.8	98.8	134.1	98.8	52.9	38.8	35.3
264.7	80°	183.5	56.5	49.4	42.3	38.8	31.8	14.1	7.1	3.5	3.5
91.8	82.5°	109.4	24.7	24.7	17.6	10.6	0.0	0.0	0.0	0.0	0.0
35.3	85°	24.7	10.6	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
14.1	87.5°	3.5	3.5	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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