

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: P954324

Luminaire Tested: **GALN-SB7C-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954324  
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-SB7C-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

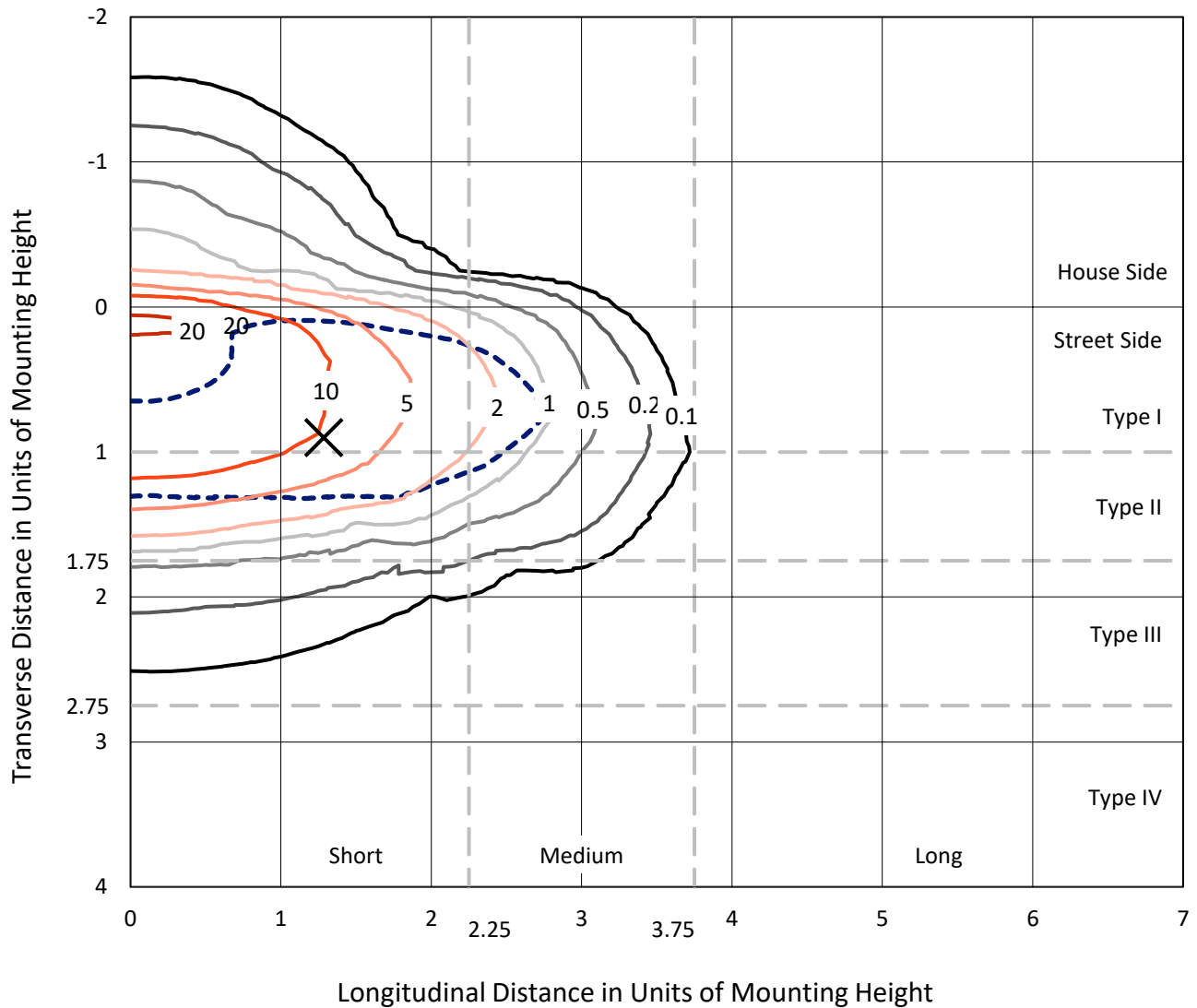
Lumens per Lamp: N/A  
Luminaire Lumens: 43436 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

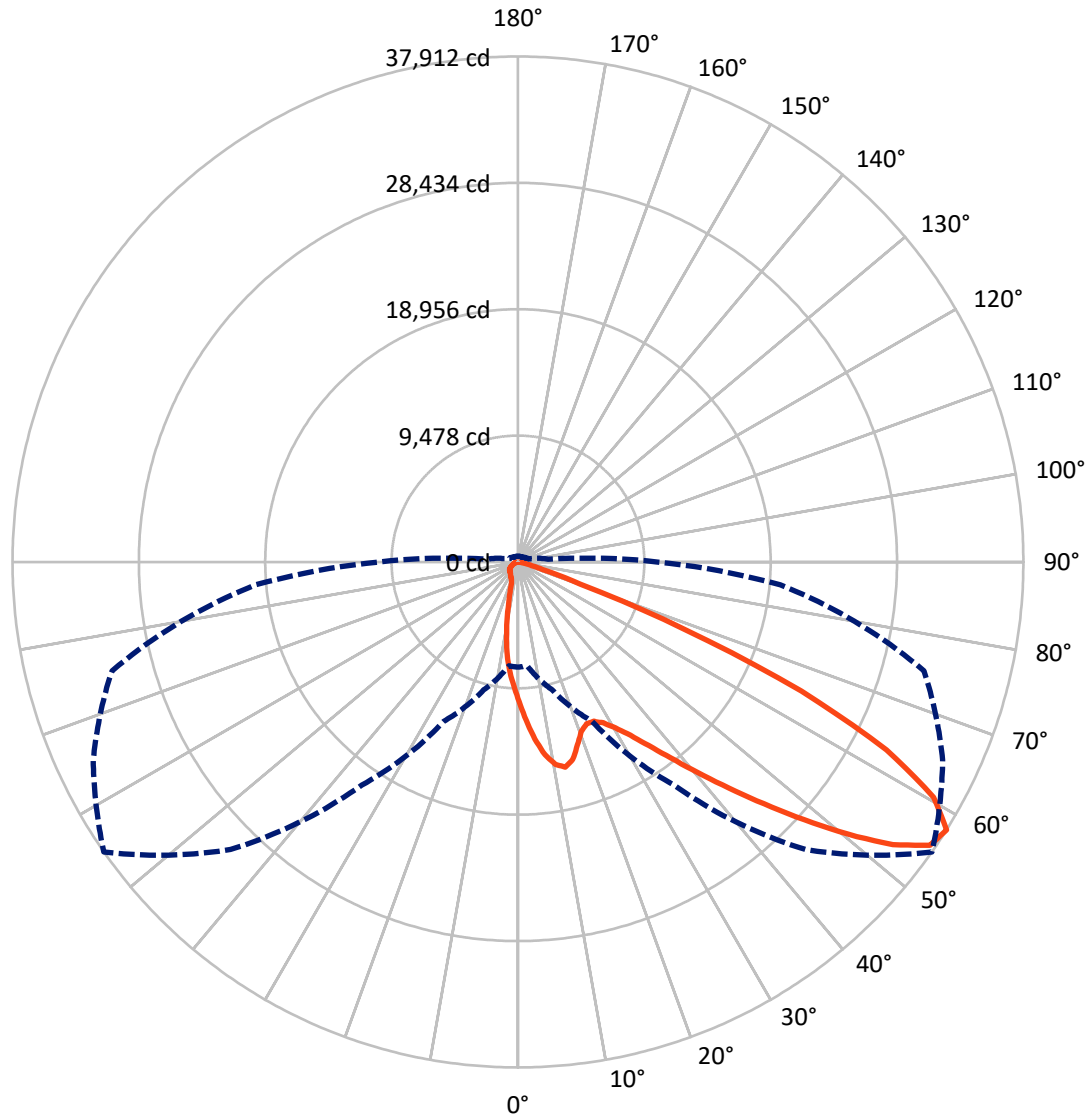
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 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	3392.2	0.0	3392.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	40043.8	0.0	40043.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	43436.0	0.0	43436.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	973.9	2.2
10°-20°	2352.5	5.4
20°-30°	3763.9	8.7
30°-40°	6370.6	14.7
40°-50°	10459.2	24.1
50°-60°	11495.4	26.5
60°-70°	6593.8	15.2
70°-80°	1347.3	3.1
80°-90°	79.5	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°	43436.0	100.0
0°-180°	43436.0	100.0

**Coefficient of Utilization**



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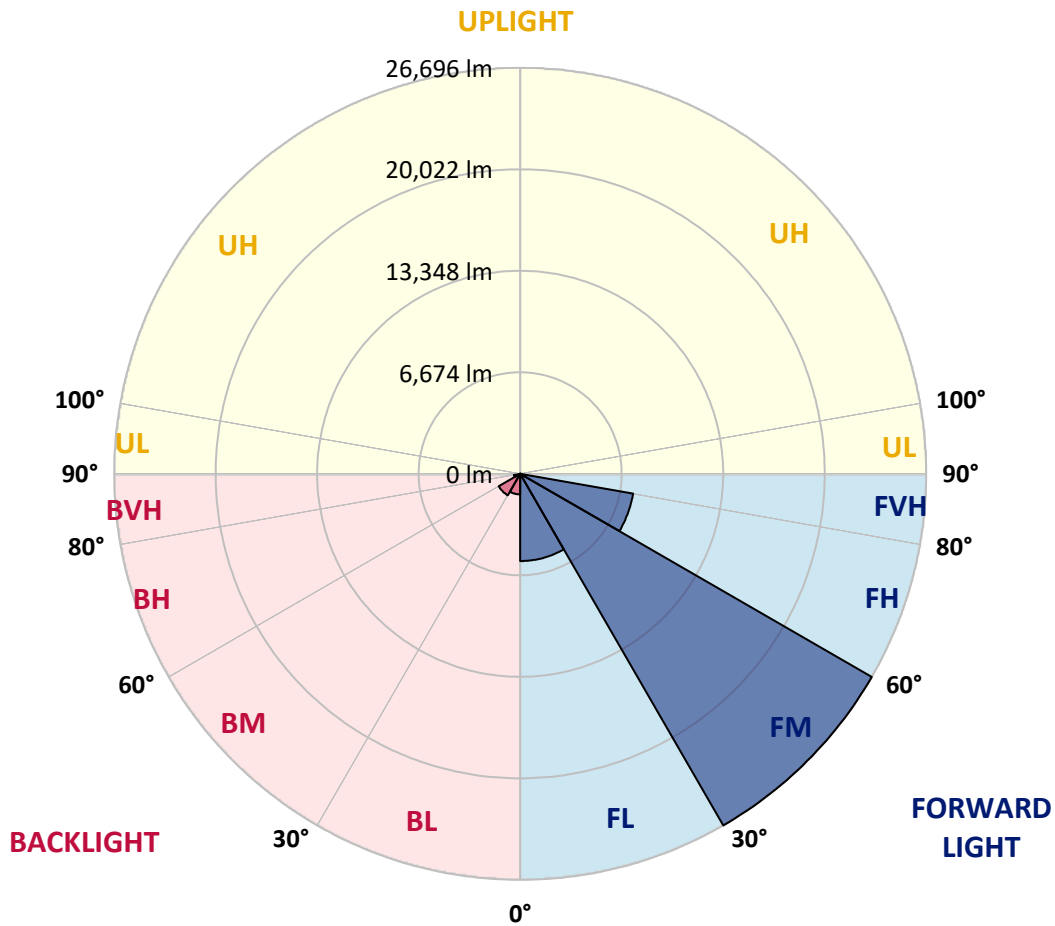
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5736.0	13.2			
FM (30°-60°)	26696.1	61.5			
FH (60°-80°)	7537.6	17.4			G4/12000
FVH (80°-90°)	74.1	0.2			G1/100
BL (0°-30°)	1354.2	3.1	B3/2500		
BM (30°-60°)	1629.1	3.8	B2/2500		
BH (60°-80°)	403.4	0.9	B1/500		G1/500
BVH (80°-90°)	5.4	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°	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0
2.5°	12987.3	12824.0	12799.9	12767.7	12457.0	12224.0	11886.5	11516.9	11101.8	10678.6
5°	15004.1	14875.6	14851.5	14701.5	14347.9	13951.5	13351.6	12593.6	11819.6	10908.9
7.5°	15395.2	15371.1	15480.9	15475.5	15427.3	15113.9	14607.7	13705.1	12542.7	11192.8
10°	13651.6	13713.2	14039.9	14326.5	15100.6	15550.5	15440.7	14696.1	13287.3	11516.9
12.5°	12063.3	11991.0	12224.0	12548.1	13448.0	14787.2	15786.2	15523.7	14139.0	11883.9
15°	11067.0	11037.5	11168.7	11318.7	12004.4	13354.3	15384.5	16196.0	14958.6	12317.7
17.5°	10748.2	10724.1	10764.3	10801.8	11246.4	12291.0	14428.3	16608.5	15743.4	12813.2
20°	11008.0	10975.9	10970.5	10941.1	11125.9	11838.3	13563.2	16637.9	16447.8	13263.2
22.5°	11766.0	11728.5	11597.3	11479.4	11495.5	11899.9	13177.5	16343.3	16978.1	13683.7
25°	13140.0	13078.4	12805.2	12408.8	12157.0	12328.5	13236.4	15955.0	17484.3	14013.1
27.5°	14859.5	14779.2	14428.3	13839.1	13263.2	13054.3	13662.3	15687.1	17904.8	14264.9
30°	16544.2	16439.7	16094.2	15636.2	14795.2	14136.3	14431.0	15805.0	18405.6	14527.4
32.5°	18362.8	18263.7	17805.7	17237.9	16541.5	15655.0	15483.6	16380.8	19019.0	14894.3
35°	20663.5	20508.2	19857.3	19083.3	18344.0	17446.8	16908.4	17374.5	19835.9	15454.1
37.5°	23282.9	23074.0	22372.3	21303.6	20339.4	19335.0	18644.0	18740.4	21033.1	16204.0
40°	25752.4	25562.2	24914.0	23907.0	22696.4	21477.7	20741.2	20526.9	22685.7	17117.4
42.5°	27233.5	27062.1	26788.9	26363.0	25342.6	24099.8	23170.4	22707.1	24640.9	18210.1
45°	27316.5	27166.5	27533.5	28029.0	27828.1	27000.5	25867.5	25018.5	26604.1	19235.9
47.5°	25988.1	25886.3	27000.5	28730.7	29593.1	29941.3	28896.8	27137.1	28224.5	19972.5
50°	22366.9	22329.4	24622.1	27798.6	30265.4	32517.9	32092.0	29108.3	29480.6	20352.8
52.5°	19394.0	19257.4	20593.9	24814.9	29287.8	33873.1	35215.0	31042.1	30359.1	20425.1
55°	14709.5	14589.0	16265.6	19822.5	26135.4	33391.0	37499.6	33037.5	30988.6	20240.3
57.5°	7890.4	7815.4	9934.0	13193.6	20430.5	30498.4	37912.1	35148.0	31518.9	19750.2
60°	3072.1	3058.7	3851.5	6401.3	12416.8	24812.3	35831.0	36414.9	31851.0	19147.5
62.5°	1858.8	1899.0	2027.5	2873.9	5485.3	15413.9	31034.1	34973.9	32073.3	18595.8
65°	1537.4	1540.1	1556.1	1973.9	2627.5	6449.5	23363.3	30233.3	31524.2	17612.9
67.5°	1317.7	1341.9	1403.5	1566.8	1853.4	2828.3	13450.7	23419.5	28184.3	15325.5
70°	1039.2	1071.3	1149.0	1288.3	1430.2	1770.4	4971.0	15582.7	21531.3	11551.7
72.5°	875.8	873.1	913.3	1047.2	1135.6	1245.4	1912.3	8731.4	12513.3	5514.7
75°	677.6	704.4	755.3	875.8	929.4	902.6	1036.5	3189.9	4483.6	1671.3
77.5°	530.3	551.7	597.3	715.1	768.7	640.1	597.3	1141.0	1441.0	600.0
80°	238.4	257.1	407.1	527.6	626.7	441.9	324.1	583.9	640.1	273.2
82.5°	42.9	72.3	238.4	278.5	321.4	286.6	168.7	302.7	313.4	109.8
85°	2.7	5.4	83.0	101.8	128.6	93.7	50.9	120.5	104.5	37.5
87.5°	0.0	0.0	0.0	2.7	2.7	13.4	16.1	21.4	16.1	13.4
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°
10467.0	0°	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0	10467.0
10491.1	2.5°	10298.3	9917.9	9548.3	9245.7	9068.9	8768.9	8570.7	8538.6	8455.6	8527.9
10517.9	5°	10100.1	9419.8	8731.4	8115.4	7609.2	6955.7	6468.2	6262.0	6082.5	6144.1
10587.5	7.5°	10006.3	8932.3	7861.0	6808.4	5726.3	4681.8	3905.0	3581.0	3334.6	3369.4
10665.2	10°	9880.4	8426.1	6746.8	5139.8	3690.8	2659.6	2123.9	1925.7	1815.9	1818.6
10780.4	12.5°	9784.0	7820.8	5453.1	3484.5	2247.1	1698.1	1532.0	1483.8	1451.7	1454.3
10954.5	15°	9735.8	7108.4	4175.6	2322.1	1607.0	1438.3	1398.1	1376.7	1355.2	1352.6
11147.3	17.5°	9655.5	6315.6	3056.0	1695.4	1406.1	1347.2	1312.4	1288.3	1261.5	1256.1
11313.4	20°	9534.9	5415.6	2233.7	1432.9	1317.7	1272.2	1224.0	1191.9	1159.7	1154.4
11417.8	22.5°	9312.6	4464.8	1716.8	1325.8	1253.5	1202.6	1143.7	1106.2	1074.0	1068.7
11366.9	25°	8900.2	3572.9	1446.3	1258.8	1197.2	1135.6	1071.3	1020.5	991.0	985.6
11257.1	27.5°	8377.9	2806.9	1312.4	1197.2	1124.9	1068.7	996.3	948.1	921.4	916.0
11112.5	30°	7761.9	2161.4	1234.7	1127.6	1039.2	991.0	926.7	886.5	870.5	870.5
11010.7	32.5°	7097.6	1727.5	1202.6	1057.9	964.2	910.6	859.8	843.7	838.3	835.6
11067.0	35°	6473.6	1499.9	1186.5	1001.7	897.2	846.4	824.9	827.6	838.3	838.3
11241.0	37.5°	5919.2	1427.6	1178.5	961.5	838.3	792.8	806.2	830.3	819.6	819.6
11546.4	40°	5418.3	1435.6	1173.1	932.1	790.1	763.3	790.1	771.4	744.6	741.9
11918.7	42.5°	5035.3	1502.6	1162.4	908.0	760.7	741.9	731.2	701.7	699.1	704.4
12304.4	45°	4756.8	1561.5	1159.7	897.2	728.5	693.7	680.3	650.8	704.4	717.8
12462.4	47.5°	4427.3	1561.5	1159.7	859.8	674.9	661.6	640.1	608.0	661.6	674.9
12312.4	50°	4001.5	1462.4	1114.2	816.9	632.1	624.1	586.6	546.4	535.7	543.7
11961.5	52.5°	3463.1	1282.9	999.0	758.0	589.2	573.2	527.6	498.2	490.1	490.1
11332.1	55°	2849.8	1074.0	843.7	672.3	543.7	514.2	482.1	468.7	460.7	455.3
10450.9	57.5°	2316.8	881.2	677.6	597.3	500.9	463.4	452.6	436.6	423.2	415.1
9714.4	60°	1901.6	693.7	559.8	530.3	458.0	423.2	420.5	399.1	364.3	358.9
9106.4	62.5°	1467.7	508.9	471.4	460.7	415.1	385.7	380.3	337.5	283.9	273.2
8244.0	65°	1036.5	396.4	380.3	404.4	369.6	342.8	329.4	265.2	208.9	200.9
6899.4	67.5°	728.5	332.1	300.0	353.5	321.4	286.6	278.5	225.0	174.1	168.7
5217.4	70°	519.6	270.5	246.4	302.7	257.1	251.8	235.7	187.5	142.0	136.6
2581.9	72.5°	366.9	206.2	190.2	262.5	176.8	216.9	192.8	144.6	107.1	101.8
878.5	75°	270.5	147.3	133.9	152.7	128.6	163.4	136.6	96.4	67.0	64.3
396.4	77.5°	198.2	93.7	80.4	75.0	75.0	101.8	75.0	40.2	29.5	26.8
200.9	80°	139.3	42.9	37.5	32.1	29.5	24.1	10.7	5.4	2.7	2.7
69.6	82.5°	83.0	18.7	18.7	13.4	8.0	0.0	0.0	0.0	0.0	0.0
26.8	85°	18.7	8.0	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
10.7	87.5°	2.7	2.7	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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