

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: P954807

Luminaire Tested: **GALN-SB7D-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954807  
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-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

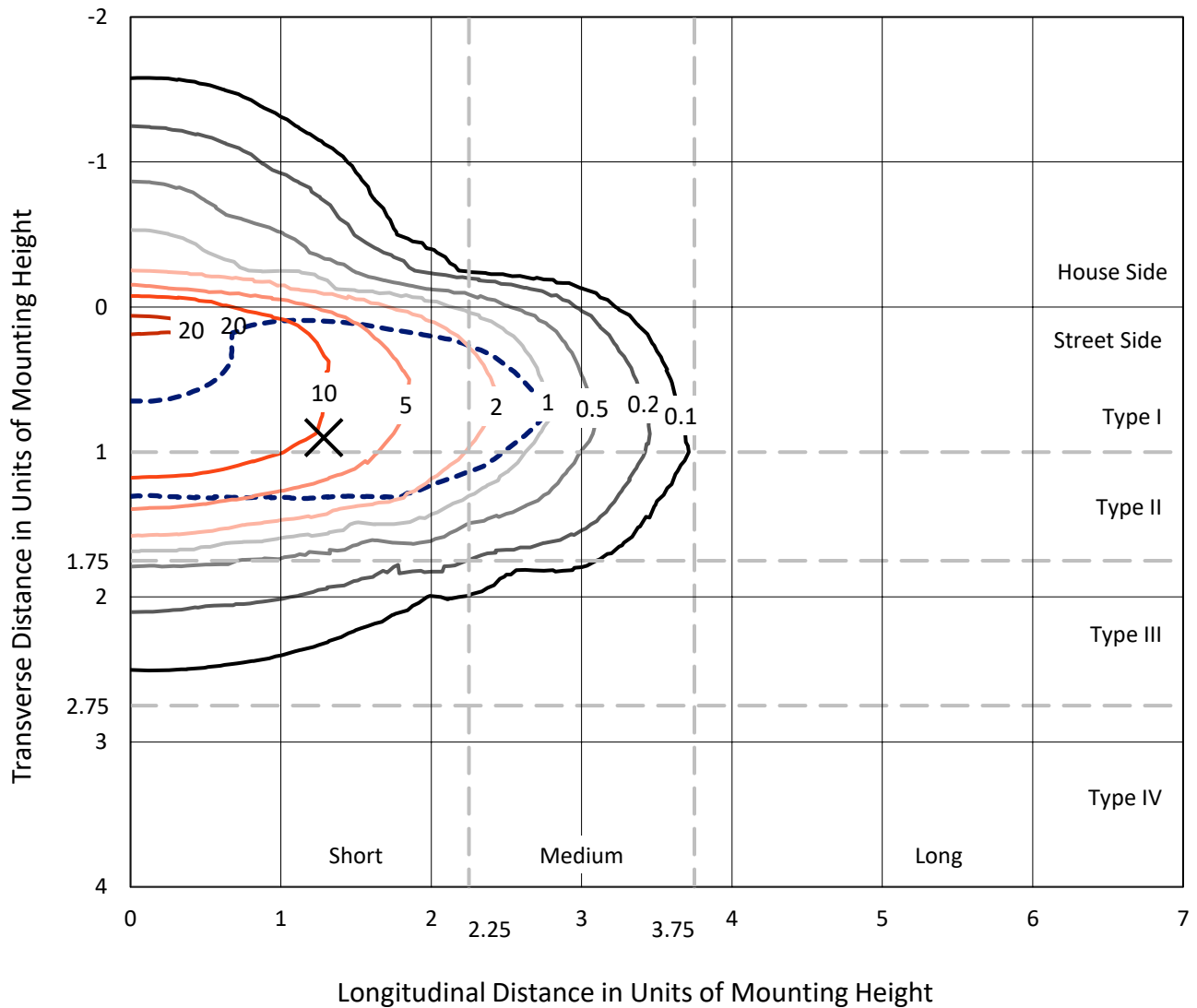
Lumens per Lamp: N/A  
Luminaire Lumens: 42924 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

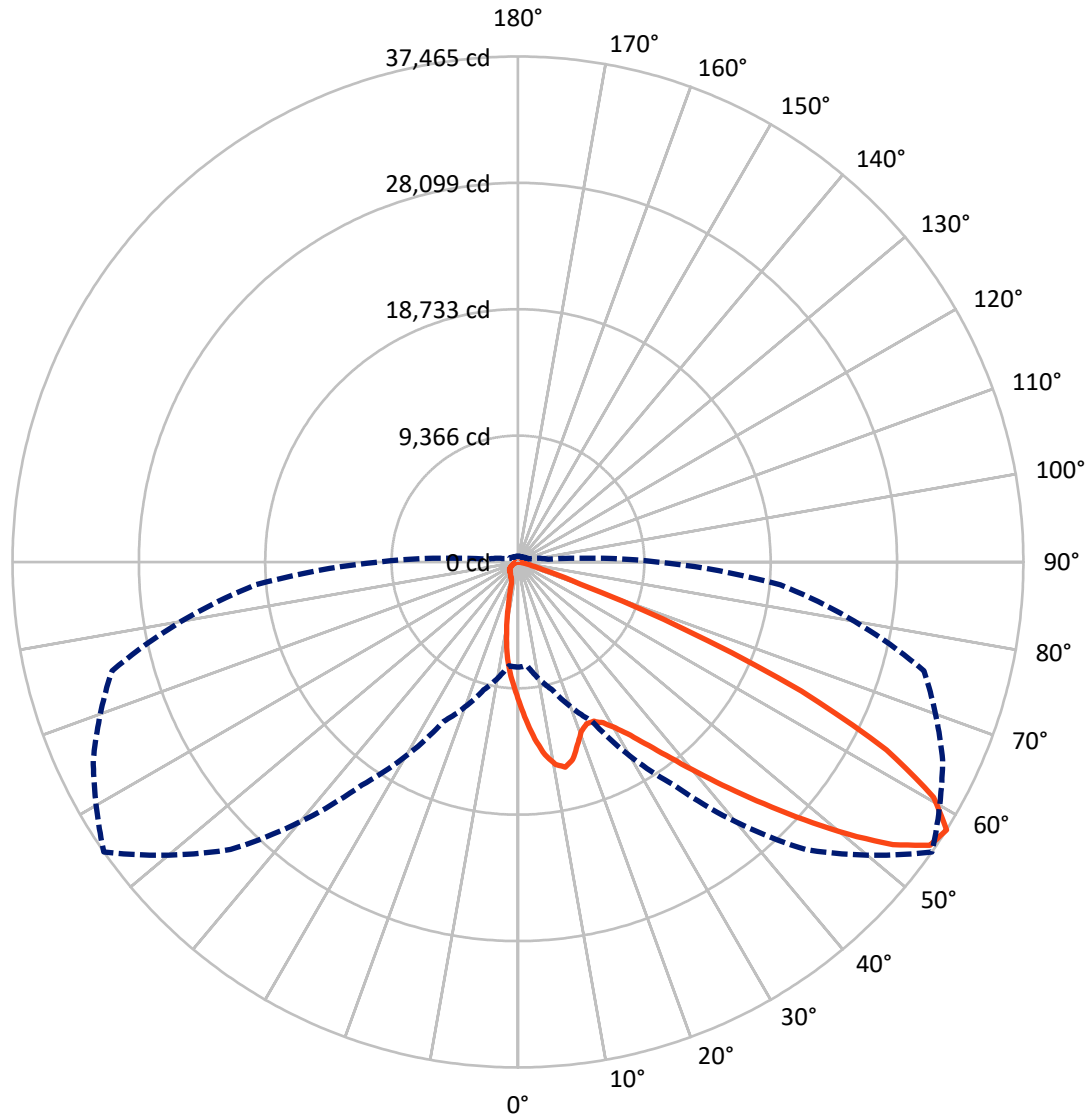
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 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	3352.2	0.0	3352.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	39571.8	0.0	39571.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	42924.0	0.0	42924.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	962.4	2.2
10°-20°	2324.7	5.4
20°-30°	3719.5	8.7
30°-40°	6295.5	14.7
40°-50°	10335.9	24.1
50°-60°	11359.9	26.5
60°-70°	6516.0	15.2
70°-80°	1331.4	3.1
80°-90°	78.5	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°	42924.0	100.0
0°-180°	42924.0	100.0

**Coefficient of Utilization**



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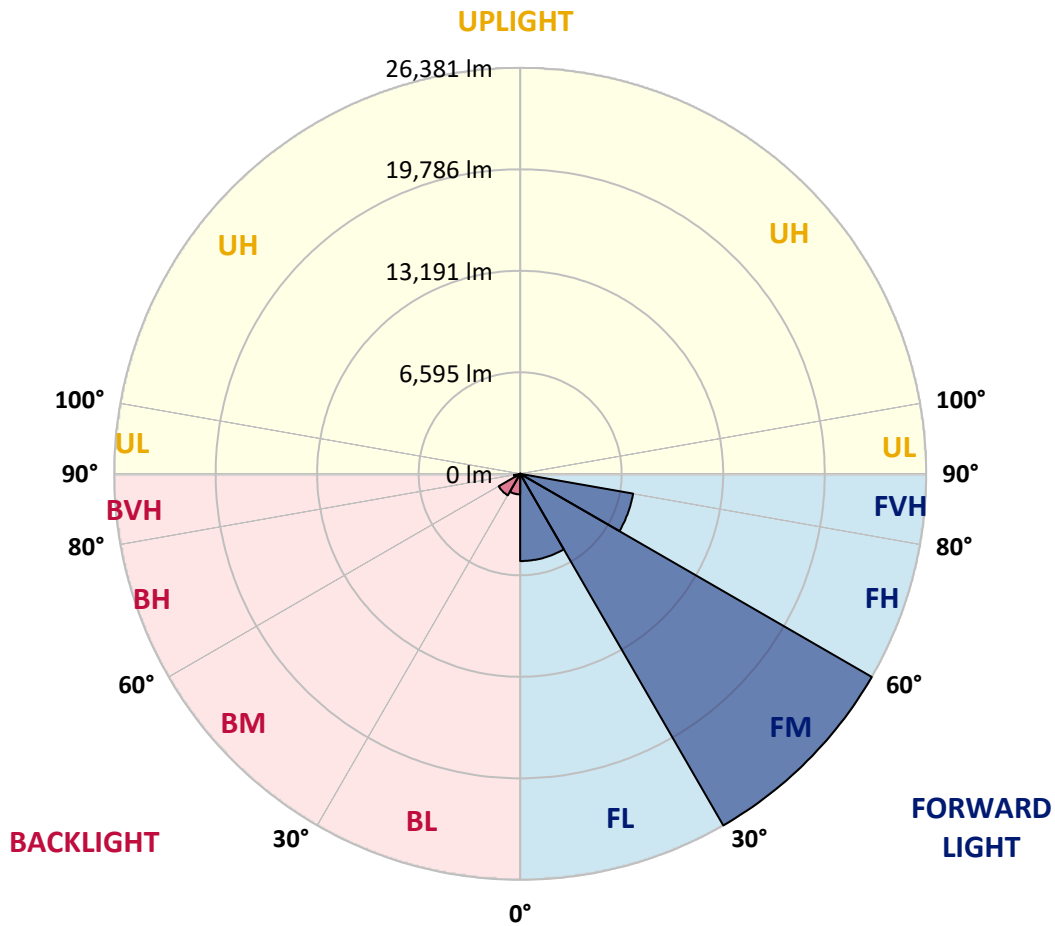
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5668.4	13.2			
FM (30°-60°)	26381.4	61.5			
FH (60°-80°)	7448.8	17.4			G3/7500
FVH (80°-90°)	73.2	0.2			G1/100
BL (0°-30°)	1338.3	3.1	B3/2500		
BM (30°-60°)	1609.9	3.8	B2/2500		
BH (60°-80°)	398.7	0.9	B1/500		G1/500
BVH (80°-90°)	5.3	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°	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6
2.5°	12834.2	12672.8	12649.0	12617.2	12310.2	12079.9	11746.4	11381.2	10970.9	10552.7
5°	14827.3	14700.2	14676.4	14528.2	14178.8	13787.1	13194.2	12445.2	11680.3	10780.3
7.5°	15213.7	15189.9	15298.4	15293.1	15245.5	14935.8	14435.6	13543.6	12394.9	11060.9
10°	13490.7	13551.5	13874.4	14157.6	14922.6	15367.2	15258.7	14522.9	13130.7	11381.2
12.5°	11921.1	11849.6	12079.9	12400.2	13289.5	14612.9	15600.1	15340.8	13972.4	11743.8
15°	10936.5	10907.4	11037.1	11185.3	11862.9	13196.9	15203.1	16005.1	14782.3	12172.6
17.5°	10621.5	10597.7	10637.4	10674.5	11113.8	12146.1	14258.2	16412.7	15557.8	12662.2
20°	10878.3	10846.5	10841.2	10812.1	10994.7	11698.8	13403.3	16441.8	16253.9	13106.9
22.5°	11627.3	11590.3	11460.6	11344.1	11360.0	11759.7	13022.2	16150.7	16778.0	13522.4
25°	12985.1	12924.2	12654.3	12262.5	12013.7	12183.1	13080.4	15766.9	17278.2	13848.0
27.5°	14684.3	14604.9	14258.2	13675.9	13106.9	12900.4	13501.2	15502.2	17693.7	14096.8
30°	16349.2	16246.0	15904.5	15451.9	14620.8	13969.7	14260.9	15618.7	18188.7	14356.1
32.5°	18146.3	18048.4	17595.8	17034.7	16346.5	15470.4	15301.0	16187.7	18794.8	14718.8
35°	20419.9	20266.4	19623.2	18858.3	18127.8	17241.1	16709.1	17169.7	19602.1	15271.9
37.5°	23008.5	22802.0	22108.6	21052.5	20099.7	19107.1	18424.3	18519.5	20785.2	16013.0
40°	25448.8	25260.9	24620.4	23625.2	22428.8	21224.5	20496.7	20284.9	22418.2	16915.6
42.5°	26912.5	26743.1	26473.1	26052.3	25043.9	23815.7	22897.3	22439.4	24350.4	17995.5
45°	26994.5	26846.3	27208.9	27698.6	27500.1	26682.2	25562.6	24723.6	26290.5	19009.2
47.5°	25681.7	25581.2	26682.2	28392.0	29244.3	29588.4	28556.1	26817.2	27891.8	19737.1
50°	22103.3	22066.2	24331.9	27471.0	29908.6	32134.6	31713.7	28765.2	29133.1	20112.9
52.5°	19165.4	19030.4	20351.1	24522.4	28942.6	33473.9	34799.9	30676.2	30001.3	20184.4
55°	14536.1	14417.0	16073.9	19588.8	25827.3	32997.4	37057.6	32648.1	30623.3	20001.7
57.5°	7797.4	7723.3	9816.9	13038.1	20189.7	30138.9	37465.2	34733.7	31147.3	19517.4
60°	3035.9	3022.6	3806.1	6325.8	12270.5	24519.8	35408.7	35985.7	31475.5	18921.8
62.5°	1836.9	1876.6	2003.6	2840.0	5420.6	15232.2	30668.3	34561.7	31695.2	18376.6
65°	1519.3	1521.9	1537.8	1950.7	2596.5	6373.5	23087.9	29876.9	31152.6	17405.2
67.5°	1302.2	1326.0	1386.9	1548.4	1831.6	2795.0	13292.1	23143.5	27852.1	15144.9
70°	1027.0	1058.7	1135.5	1273.1	1413.4	1749.5	4912.4	15399.0	21277.5	11415.6
72.5°	865.5	862.9	902.6	1034.9	1122.2	1230.8	1889.8	8628.5	12365.8	5449.7
75°	669.6	696.1	746.4	865.5	918.4	892.0	1024.3	3152.3	4430.7	1651.6
77.5°	524.1	545.2	590.2	706.7	759.6	632.6	590.2	1127.5	1424.0	592.9
80°	235.6	254.1	402.3	521.4	619.3	436.7	320.3	577.0	632.6	270.0
82.5°	42.3	71.5	235.6	275.3	317.6	283.2	166.7	299.1	309.7	108.5
85°	2.6	5.3	82.1	100.6	127.0	92.6	50.3	119.1	103.2	37.1
87.5°	0.0	0.0	0.0	2.6	2.6	13.2	15.9	21.2	15.9	13.2
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°
10343.6	0°	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6	10343.6
10367.4	2.5°	10176.9	9801.0	9435.8	9136.7	8962.0	8665.6	8469.7	8437.9	8355.9	8427.4
10393.9	5°	9981.0	9308.7	8628.5	8019.8	7519.5	6873.7	6392.0	6188.2	6010.8	6071.7
10462.7	7.5°	9888.4	8827.0	7768.3	6728.1	5658.8	4626.6	3859.0	3538.7	3295.2	3329.7
10539.5	10°	9764.0	8326.8	6667.2	5079.2	3647.3	2628.3	2098.9	1903.0	1794.5	1797.2
10653.3	12.5°	9668.7	7728.6	5388.8	3443.5	2220.7	1678.1	1514.0	1466.3	1434.6	1437.2
10825.3	15°	9621.1	7024.6	4126.3	2294.8	1588.1	1421.3	1381.6	1360.4	1339.3	1336.6
11015.9	17.5°	9541.7	6241.1	3020.0	1675.4	1389.6	1331.3	1296.9	1273.1	1246.6	1241.3
11180.0	20°	9422.5	5351.8	2207.4	1416.0	1302.2	1257.2	1209.6	1177.8	1146.1	1140.8
11283.2	22.5°	9202.9	4412.2	1696.6	1310.2	1238.7	1188.4	1130.2	1093.1	1061.4	1056.1
11232.9	25°	8795.3	3530.8	1429.3	1244.0	1183.1	1122.2	1058.7	1008.4	979.3	974.0
11124.4	27.5°	8279.1	2773.8	1296.9	1183.1	1111.6	1056.1	984.6	937.0	910.5	905.2
10981.5	30°	7670.4	2136.0	1220.2	1114.3	1027.0	979.3	915.8	876.1	860.2	860.2
10880.9	32.5°	7014.0	1707.2	1188.4	1045.5	952.8	899.9	849.6	833.7	828.4	825.8
10936.5	35°	6397.3	1482.2	1172.5	989.9	886.7	836.4	815.2	817.9	828.4	828.4
11108.5	37.5°	5849.4	1410.7	1164.6	950.2	828.4	783.4	796.7	820.5	809.9	809.9
11410.3	40°	5354.4	1418.7	1159.3	921.1	780.8	754.3	780.8	762.3	735.8	733.2
11778.2	42.5°	4976.0	1484.8	1148.7	897.3	751.7	733.2	722.6	693.5	690.8	696.1
12159.3	45°	4700.7	1543.1	1146.1	886.7	719.9	685.5	672.3	643.2	696.1	709.3
12315.5	47.5°	4375.1	1543.1	1146.1	849.6	667.0	653.8	632.6	600.8	653.8	667.0
12167.3	50°	3954.3	1445.1	1101.1	807.3	624.6	616.7	579.6	539.9	529.4	537.3
11820.5	52.5°	3422.3	1267.8	987.2	749.0	582.3	566.4	521.4	492.3	484.4	484.4
11198.5	55°	2816.2	1061.4	833.7	664.3	537.3	508.2	476.4	463.2	455.2	450.0
10327.7	57.5°	2289.5	870.8	669.6	590.2	494.9	457.9	447.3	431.4	418.2	410.3
9599.9	60°	1879.2	685.5	553.2	524.1	452.6	418.2	415.5	394.4	360.0	354.7
8999.1	62.5°	1450.4	502.9	465.8	455.2	410.3	381.1	375.8	333.5	280.6	270.0
8146.8	65°	1024.3	391.7	375.8	399.7	365.3	338.8	325.6	262.0	206.4	198.5
6818.1	67.5°	719.9	328.2	296.4	349.4	317.6	283.2	275.3	222.3	172.0	166.7
5155.9	70°	513.5	267.3	243.5	299.1	254.1	248.8	232.9	185.3	140.3	135.0
2551.5	72.5°	362.6	203.8	187.9	259.4	174.7	214.4	190.6	142.9	105.9	100.6
868.1	75°	267.3	145.6	132.3	150.9	127.0	161.5	135.0	95.3	66.2	63.5
391.7	77.5°	195.9	92.6	79.4	74.1	74.1	100.6	74.1	39.7	29.1	26.5
198.5	80°	137.6	42.3	37.1	31.8	29.1	23.8	10.6	5.3	2.6	2.6
68.8	82.5°	82.1	18.5	18.5	13.2	7.9	0.0	0.0	0.0	0.0	0.0
26.5	85°	18.5	7.9	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
10.6	87.5°	2.6	2.6	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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