

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: P945095

Luminaire Tested: **GALN-SB1A-927-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-927-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

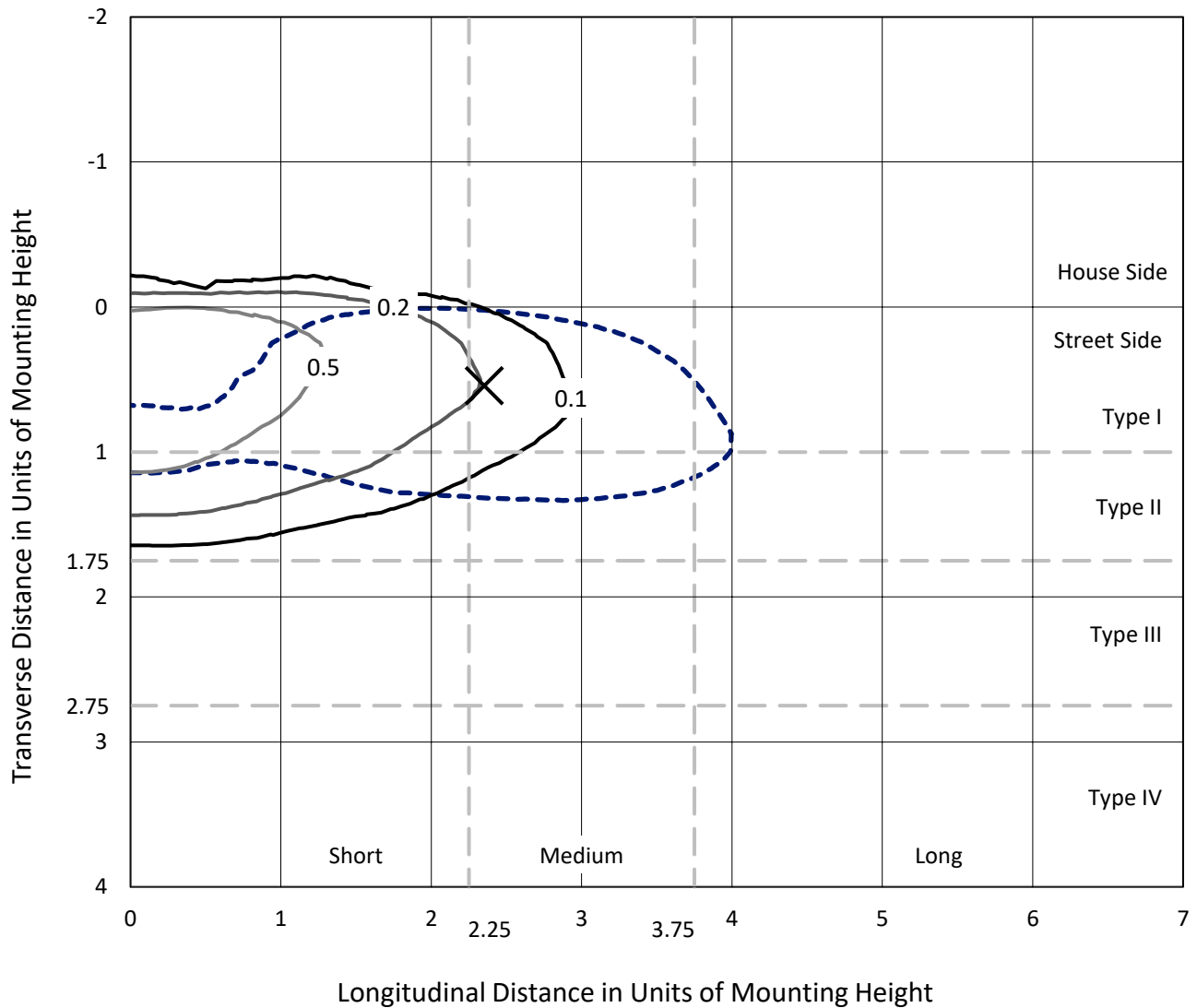
Lumens per Lamp: N/A  
Luminaire Lumens: 2313 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

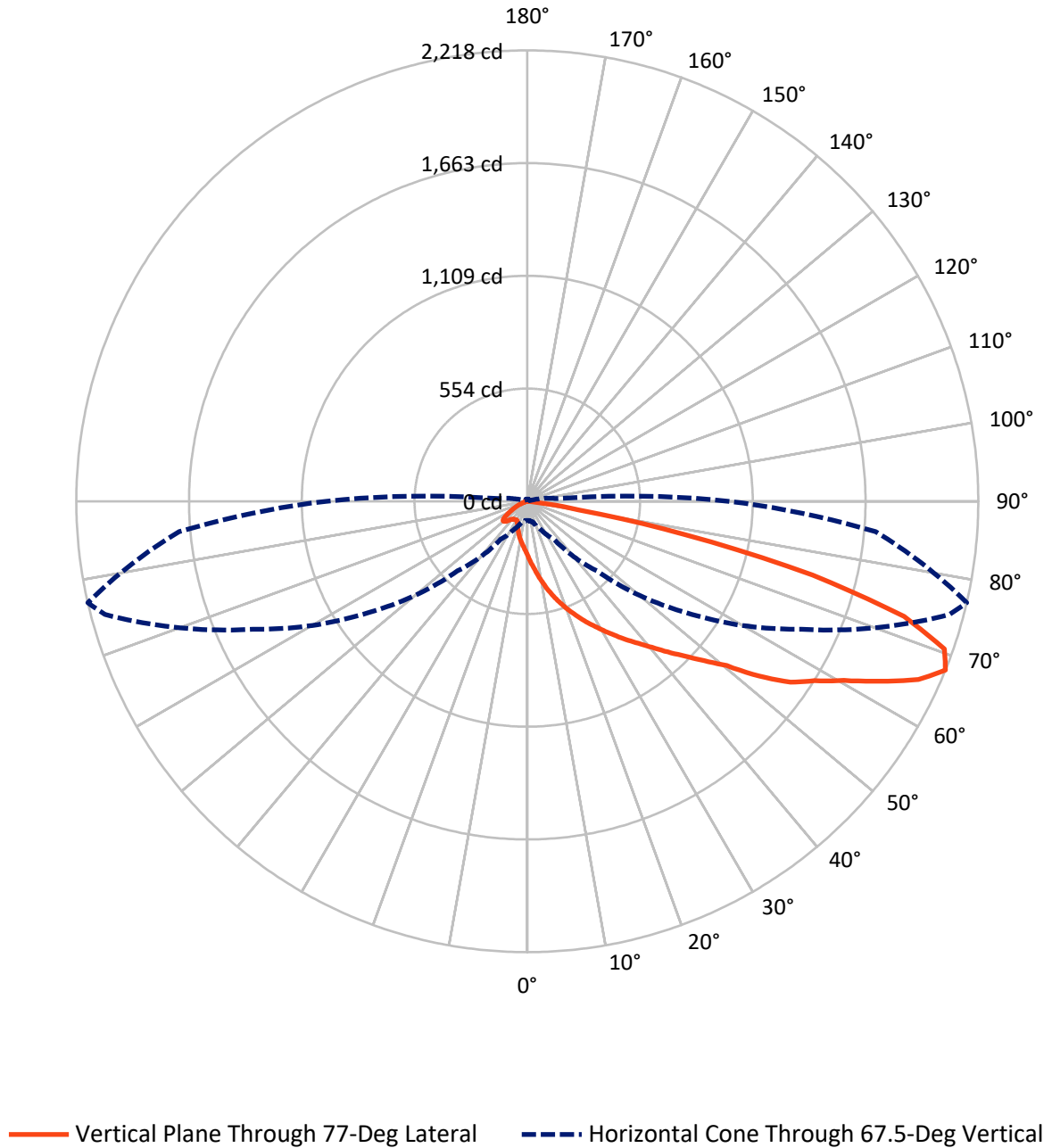
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	170.2	0.0	170.2
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	2142.8	0.0	2142.8
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	2313.0	0.0	2313.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.2	1.2
10°-20°	95.3	4.1
20°-30°	184.0	8.0
30°-40°	319.4	13.8
40°-50°	463.7	20.0
50°-60°	532.5	23.0
60°-70°	462.3	20.0
70°-80°	217.8	9.4
80°-90°	10.8	0.5
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°	2313.0	100.0
0°-180°	2313.0	100.0

**Coefficient of Utilization**



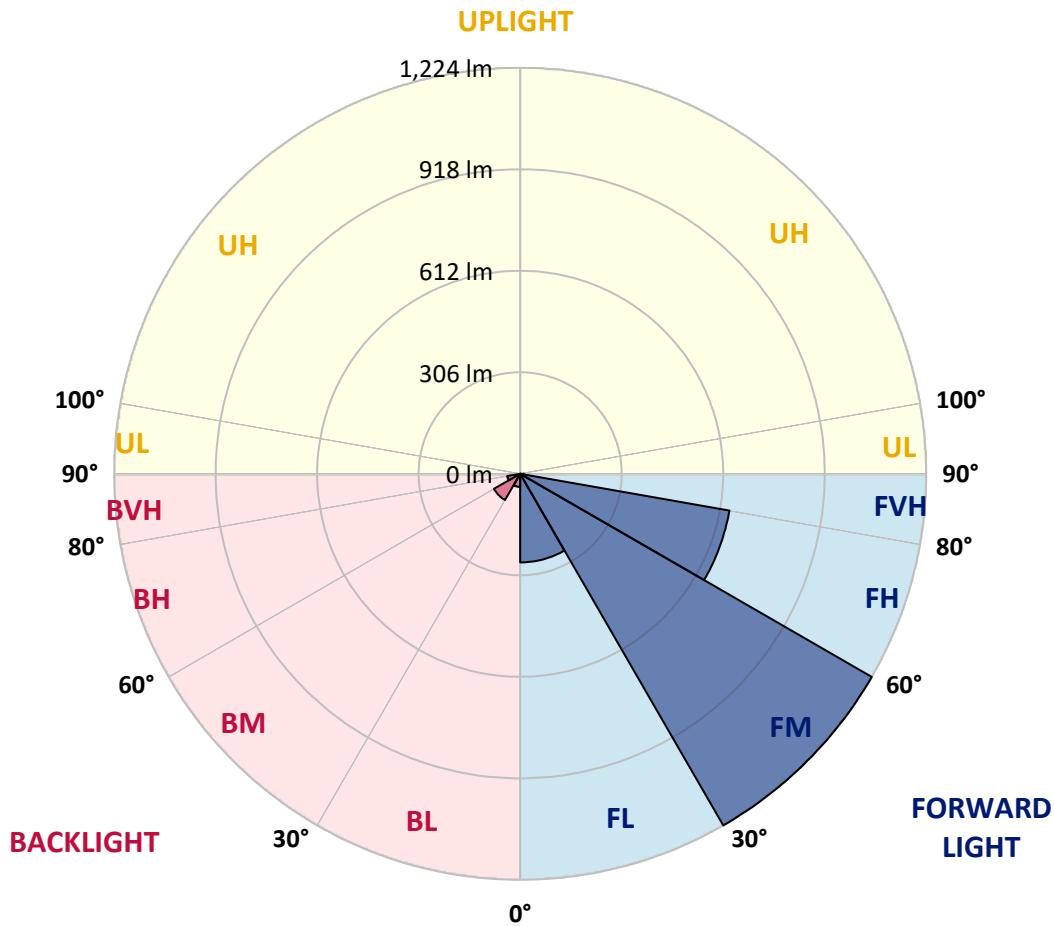
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	267.1	11.5			
FM	(30°-60°)	1224.4	52.9			
FH	(60°-80°)	640.7	27.7			G0/660
FVH	(80°-90°)	10.6	0.5			G1/100
BL	(0°-30°)	39.4	1.7	B0/110		
BM	(30°-60°)	91.2	3.9	B0/220		
BH	(60°-80°)	39.4	1.7	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7
2.5°	369.3	371.6	368.3	362.0	352.5	346.3	331.2	317.0	301.2	296.2
5°	450.1	452.2	448.4	441.5	428.9	416.8	397.0	367.3	336.4	326.5
7.5°	510.0	511.2	509.7	503.4	491.4	477.7	455.6	420.4	374.6	363.7
10°	553.1	556.9	556.4	554.0	545.9	534.9	511.3	471.3	417.4	403.3
12.5°	581.7	585.9	588.3	593.8	593.3	586.3	565.6	523.2	460.1	443.5
15°	590.0	594.5	603.8	616.5	627.7	631.3	616.8	574.2	507.0	485.9
17.5°	585.3	592.2	603.4	623.4	647.9	664.2	662.6	623.5	549.7	525.5
20°	595.8	602.4	611.2	628.0	656.5	686.0	697.8	670.6	592.0	566.8
22.5°	653.8	652.7	653.5	656.3	673.3	702.5	726.8	713.4	634.0	608.1
25°	745.7	740.6	731.8	717.0	712.7	726.8	752.1	751.3	678.2	650.5
27.5°	851.2	850.3	829.8	794.1	774.0	768.6	780.6	788.2	722.0	692.4
30°	952.1	954.4	926.7	887.1	850.2	828.8	817.8	823.3	766.6	737.7
32.5°	1040.0	1042.5	1012.3	965.9	920.2	894.4	871.4	857.9	815.1	783.7
35°	1114.3	1116.7	1082.1	1030.8	982.1	958.7	932.7	895.8	863.9	834.6
37.5°	1180.6	1179.9	1133.5	1081.8	1034.0	1015.5	1001.8	942.5	914.2	885.9
40°	1219.9	1222.9	1183.2	1126.2	1079.8	1066.3	1065.5	1000.4	972.2	944.8
42.5°	1231.3	1236.7	1207.9	1161.1	1119.0	1104.4	1126.9	1063.0	1039.7	1013.0
45°	1210.7	1215.8	1202.8	1170.3	1145.7	1136.3	1179.8	1127.9	1111.8	1085.4
47.5°	1150.3	1156.8	1160.0	1153.1	1152.8	1162.4	1227.2	1196.3	1197.5	1170.4
50°	1033.6	1044.5	1073.5	1097.9	1135.7	1183.1	1273.3	1270.4	1294.0	1270.7
52.5°	821.3	836.8	936.8	1003.6	1088.4	1179.2	1324.0	1389.3	1463.3	1429.3
55°	660.0	660.0	741.3	866.2	996.2	1153.6	1346.1	1466.6	1578.6	1570.6
57.5°	538.0	544.5	596.4	706.8	862.8	1092.7	1359.8	1515.2	1671.6	1665.7
60°	332.1	346.0	444.0	553.0	711.0	984.3	1351.1	1564.3	1784.3	1789.1
62.5°	187.0	192.2	235.8	397.9	552.8	838.5	1285.2	1591.7	1928.5	1948.6
65°	129.1	131.7	148.5	247.6	383.2	667.6	1156.4	1574.6	2073.0	2113.7
67.5°	93.8	95.1	105.6	151.2	227.4	484.0	954.4	1488.4	2149.6	2217.5
70°	72.1	73.0	80.6	99.4	134.3	298.8	693.2	1317.1	2094.1	2175.3
72.5°	58.6	59.5	65.4	73.5	89.1	176.7	420.1	1069.6	1849.4	1937.0
75°	49.4	50.6	55.9	61.2	69.8	113.5	197.1	744.9	1390.8	1448.2
77.5°	27.4	25.3	45.4	50.7	58.9	71.8	92.2	438.4	778.9	794.9
80°	17.1	17.7	36.1	40.8	45.2	36.2	42.2	168.8	270.0	256.5
82.5°	1.0	2.3	27.7	29.4	31.0	15.5	15.9	57.3	65.1	59.8
85°	0.0	0.0	12.6	10.2	10.8	4.5	4.6	13.4	8.8	9.5
87.5°	0.0	0.0	0.0	0.3	0.0	0.4	0.9	1.1	0.4	0.6
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
266.7	0°	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7
280.4	2.5°	270.3	260.3	239.9	219.9	203.7	188.6	177.8	167.6	162.4	162.2
298.5	5°	278.5	257.4	216.6	180.5	151.5	128.3	113.2	102.4	97.0	95.1
320.7	7.5°	290.0	258.2	196.2	146.1	111.9	91.9	83.3	79.9	78.7	77.4
345.9	10°	304.5	260.3	178.0	117.6	88.2	78.1	74.7	73.3	72.4	71.5
374.2	12.5°	320.7	262.1	159.9	97.7	77.6	72.4	69.9	68.2	67.1	66.1
403.2	15°	336.5	263.3	141.0	83.7	72.1	67.9	65.4	63.5	61.9	60.8
431.6	17.5°	352.2	264.9	123.4	75.4	67.7	63.5	60.9	58.6	57.3	56.0
461.5	20°	369.6	264.6	106.7	69.5	63.2	59.0	56.3	54.1	52.9	51.4
493.1	22.5°	385.6	263.1	92.1	64.5	58.6	54.6	51.6	49.4	48.1	47.0
525.4	25°	404.2	262.0	79.9	59.9	54.3	50.3	47.0	45.0	43.5	42.5
557.9	27.5°	422.0	260.3	71.0	55.7	50.1	46.2	43.1	40.8	39.5	38.8
591.3	30°	439.5	259.8	67.7	51.7	46.4	42.5	39.4	37.2	36.2	35.9
628.1	32.5°	460.6	261.0	69.1	50.3	42.9	39.1	36.1	34.5	33.5	33.5
669.0	35°	483.2	260.7	71.2	51.6	40.6	35.6	33.3	32.3	31.3	31.3
714.4	37.5°	511.5	261.1	73.0	53.7	39.8	32.7	31.5	30.2	29.6	29.6
764.1	40°	553.7	275.3	72.1	55.6	39.5	30.7	28.2	27.7	27.3	27.3
820.3	42.5°	605.4	306.2	73.3	55.7	39.4	29.3	25.9	26.7	25.7	25.6
883.6	45°	662.0	340.0	80.6	52.7	39.2	28.6	24.7	25.7	24.1	24.1
957.0	47.5°	718.2	373.4	88.0	48.4	38.8	28.4	23.7	23.1	22.7	22.8
1052.7	50°	795.6	400.7	90.9	42.5	37.8	28.2	21.8	22.0	21.7	22.0
1187.5	52.5°	879.9	406.5	87.5	35.9	34.9	27.3	20.5	21.1	21.0	21.3
1282.5	55°	932.5	400.3	72.2	29.9	30.4	23.8	19.2	20.4	20.4	20.4
1375.3	57.5°	986.7	374.0	51.3	24.3	25.3	19.5	18.1	19.7	19.5	19.4
1487.0	60°	1025.8	331.5	33.8	20.0	20.1	16.1	16.8	18.5	18.4	17.7
1602.2	62.5°	1055.0	284.5	21.7	16.9	15.4	14.5	15.4	16.8	16.2	14.7
1699.9	65°	1051.7	219.5	16.7	14.5	12.6	12.6	13.4	14.7	12.9	10.3
1718.5	67.5°	990.3	148.5	13.8	12.2	10.6	10.5	11.1	12.2	11.1	8.8
1622.9	70°	880.7	97.1	11.1	9.5	8.5	7.8	8.9	10.5	9.3	7.0
1381.6	72.5°	714.9	59.2	8.3	6.9	6.2	5.0	7.0	8.6	7.5	5.2
960.7	75°	462.5	30.2	5.7	4.5	3.3	3.0	5.2	6.5	5.2	3.2
426.3	77.5°	177.0	12.6	3.2	2.0	1.7	1.4	2.9	3.9	2.2	0.7
82.6	80°	34.0	5.3	1.6	1.0	0.9	0.6	0.4	0.3	0.0	0.0
14.7	82.5°	5.9	1.7	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
2.9	85°	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	87.5°	0.7	0.0	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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180°
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