

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: P945063

Luminaire Tested: **GALN-SB1A-850-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945063  
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-SB1A-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

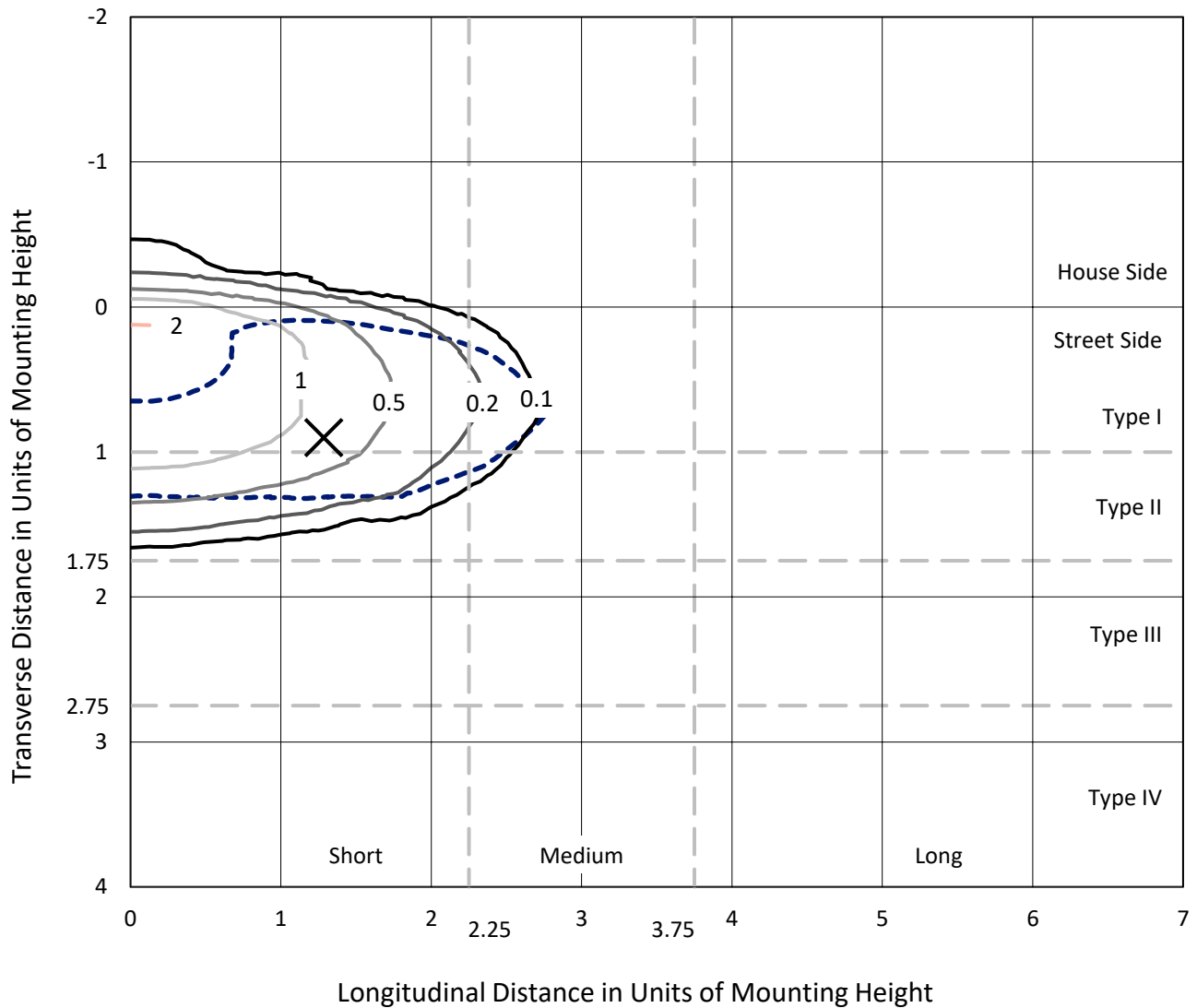
Lumens per Lamp: N/A  
Luminaire Lumens: 3660 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

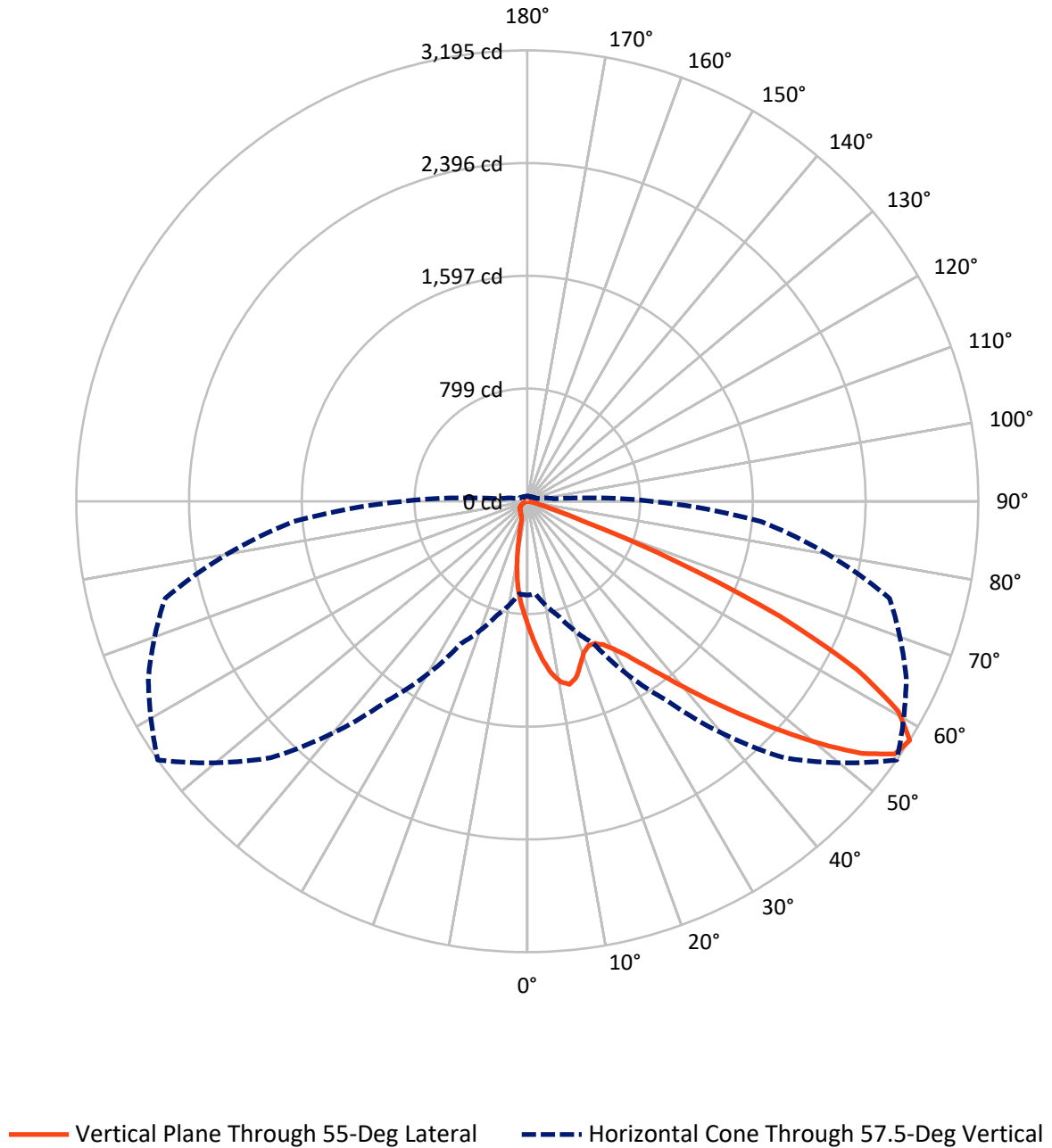
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	285.8	0.0	285.8
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	3374.2	0.0	3374.2
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	3660.0	0.0	3660.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.1	2.2
10°-20°	198.2	5.4
20°-30°	317.2	8.7
30°-40°	536.8	14.7
40°-50°	881.3	24.1
50°-60°	968.6	26.5
60°-70°	555.6	15.2
70°-80°	113.5	3.1
80°-90°	6.7	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°	3660.0	100.0
0°-180°	3660.0	100.0

**Coefficient of Utilization**



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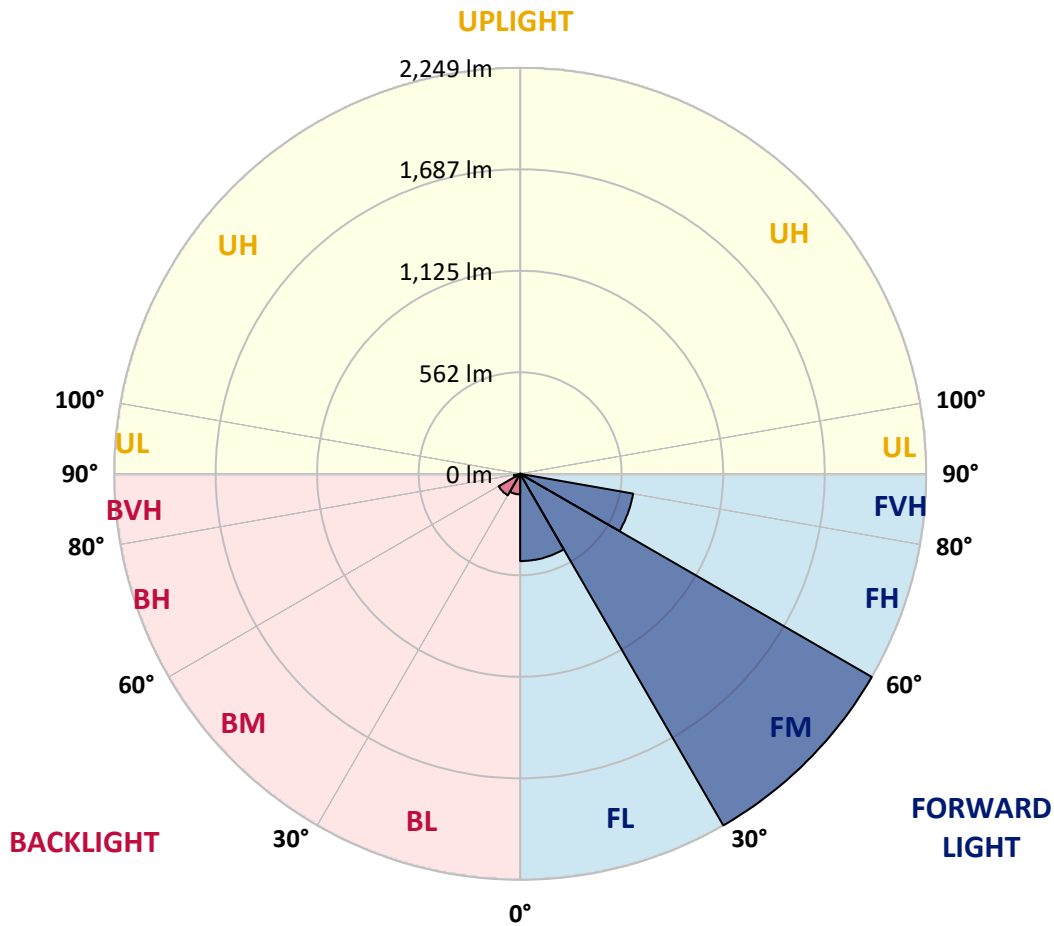
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.3	13.2			
FM (30°-60°)	2249.5	61.5			
FH (60°-80°)	635.1	17.4			G0/660
FVH (80°-90°)	6.2	0.2			G0/10
BL (0°-30°)	114.1	3.1	B1/500		
BM (30°-60°)	137.3	3.8	B0/220		
BH (60°-80°)	34.0	0.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0
2.5°	1094.3	1080.6	1078.5	1075.8	1049.7	1030.0	1001.6	970.4	935.5	899.8
5°	1264.3	1253.4	1251.4	1238.8	1209.0	1175.6	1125.0	1061.2	995.9	919.2
7.5°	1297.2	1295.2	1304.4	1304.0	1299.9	1273.5	1230.9	1154.8	1056.9	943.1
10°	1150.3	1155.5	1183.0	1207.2	1272.4	1310.3	1301.1	1238.3	1119.6	970.4
12.5°	1016.5	1010.4	1030.0	1057.3	1133.2	1246.0	1330.2	1308.1	1191.4	1001.4
15°	932.5	930.0	941.1	953.7	1011.5	1125.3	1296.3	1364.7	1260.4	1037.9
17.5°	905.7	903.6	907.0	910.2	947.6	1035.7	1215.8	1399.5	1326.6	1079.7
20°	927.6	924.8	924.4	921.9	937.5	997.5	1142.9	1401.9	1385.9	1117.6
22.5°	991.4	988.3	977.2	967.3	968.6	1002.7	1110.4	1377.1	1430.6	1153.0
25°	1107.2	1102.0	1079.0	1045.6	1024.4	1038.8	1115.3	1344.4	1473.3	1180.8
27.5°	1252.1	1245.3	1215.8	1166.1	1117.6	1100.0	1151.2	1321.8	1508.7	1202.0
30°	1394.0	1385.2	1356.1	1317.5	1246.7	1191.2	1216.0	1331.8	1550.9	1224.1
32.5°	1547.3	1538.9	1500.3	1452.5	1393.8	1319.1	1304.7	1380.3	1602.6	1255.0
35°	1741.1	1728.1	1673.2	1608.0	1545.7	1470.1	1424.7	1464.0	1671.4	1302.2
37.5°	1961.9	1944.3	1885.1	1795.1	1713.8	1629.2	1571.0	1579.1	1772.3	1365.4
40°	2169.9	2153.9	2099.3	2014.4	1912.4	1809.8	1747.7	1729.6	1911.5	1442.3
42.5°	2294.7	2280.3	2257.3	2221.4	2135.4	2030.7	1952.4	1913.3	2076.3	1534.4
45°	2301.7	2289.1	2320.0	2361.8	2344.8	2275.1	2179.6	2108.1	2241.7	1620.9
47.5°	2189.8	2181.2	2275.1	2420.9	2493.6	2522.9	2434.9	2286.6	2378.2	1682.9
50°	1884.7	1881.5	2074.7	2342.4	2550.2	2740.0	2704.1	2452.7	2484.1	1715.0
52.5°	1634.2	1622.7	1735.3	2091.0	2467.8	2854.2	2967.3	2615.7	2558.1	1721.1
55°	1239.5	1229.3	1370.6	1670.3	2202.2	2813.6	3159.8	2783.8	2611.2	1705.5
57.5°	664.9	658.5	837.1	1111.7	1721.5	2569.9	3194.5	2961.6	2655.8	1664.2
60°	258.9	257.7	324.5	539.4	1046.3	2090.7	3019.2	3068.4	2683.8	1613.4
62.5°	156.6	160.0	170.8	242.2	462.2	1298.8	2615.0	2947.0	2702.6	1566.9
65°	129.5	129.8	131.1	166.3	221.4	543.4	1968.6	2547.5	2656.3	1484.1
67.5°	111.0	113.1	118.3	132.0	156.2	238.3	1133.4	1973.4	2374.9	1291.4
70°	87.6	90.3	96.8	108.6	120.5	149.2	418.9	1313.0	1814.3	973.4
72.5°	73.8	73.6	77.0	88.2	95.7	104.9	161.1	735.7	1054.4	464.7
75°	57.1	59.4	63.6	73.8	78.3	76.1	87.3	268.8	377.8	140.8
77.5°	44.7	46.5	50.3	60.3	64.8	53.9	50.3	96.1	121.4	50.6
80°	20.1	21.7	34.3	44.5	52.8	37.2	27.3	49.2	53.9	23.0
82.5°	3.6	6.1	20.1	23.5	27.1	24.1	14.2	25.5	26.4	9.3
85°	0.2	0.5	7.0	8.6	10.8	7.9	4.3	10.2	8.8	3.2
87.5°	0.0	0.0	0.0	0.2	0.2	1.1	1.4	1.8	1.4	1.1
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°
882.0	0°	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0
884.0	2.5°	867.8	835.7	804.6	779.1	764.2	738.9	722.2	719.5	712.5	718.6
886.3	5°	851.1	793.7	735.7	683.8	641.2	586.1	545.0	527.6	512.5	517.7
892.1	7.5°	843.2	752.7	662.4	573.7	482.5	394.5	329.0	301.7	281.0	283.9
898.7	10°	832.5	710.0	568.5	433.1	311.0	224.1	179.0	162.3	153.0	153.2
908.4	12.5°	824.4	659.0	459.5	293.6	189.3	143.1	129.1	125.0	122.3	122.5
923.0	15°	820.4	599.0	351.8	195.7	135.4	121.2	117.8	116.0	114.2	114.0
939.3	17.5°	813.6	532.2	257.5	142.9	118.5	113.5	110.6	108.6	106.3	105.8
953.3	20°	803.4	456.3	188.2	120.7	111.0	107.2	103.1	100.4	97.7	97.3
962.1	22.5°	784.7	376.2	144.7	111.7	105.6	101.3	96.4	93.2	90.5	90.0
957.8	25°	749.9	301.1	121.9	106.1	100.9	95.7	90.3	86.0	83.5	83.1
948.5	27.5°	705.9	236.5	110.6	100.9	94.8	90.0	84.0	79.9	77.6	77.2
936.4	30°	654.0	182.1	104.0	95.0	87.6	83.5	78.1	74.7	73.3	73.3
927.8	32.5°	598.1	145.6	101.3	89.1	81.2	76.7	72.4	71.1	70.6	70.4
932.5	35°	545.5	126.4	100.0	84.4	75.6	71.3	69.5	69.7	70.6	70.6
947.2	37.5°	498.8	120.3	99.3	81.0	70.6	66.8	67.9	70.0	69.1	69.1
972.9	40°	456.6	121.0	98.8	78.5	66.6	64.3	66.6	65.0	62.7	62.5
1004.3	42.5°	424.3	126.6	97.9	76.5	64.1	62.5	61.6	59.1	58.9	59.4
1036.8	45°	400.8	131.6	97.7	75.6	61.4	58.5	57.3	54.8	59.4	60.5
1050.1	47.5°	373.1	131.6	97.7	72.4	56.9	55.7	53.9	51.2	55.7	56.9
1037.5	50°	337.2	123.2	93.9	68.8	53.3	52.6	49.4	46.0	45.1	45.8
1007.9	52.5°	291.8	108.1	84.2	63.9	49.7	48.3	44.5	42.0	41.3	41.3
954.9	55°	240.1	90.5	71.1	56.6	45.8	43.3	40.6	39.5	38.8	38.4
880.6	57.5°	195.2	74.2	57.1	50.3	42.2	39.0	38.1	36.8	35.7	35.0
818.6	60°	160.2	58.5	47.2	44.7	38.6	35.7	35.4	33.6	30.7	30.2
767.3	62.5°	123.7	42.9	39.7	38.8	35.0	32.5	32.0	28.4	23.9	23.0
694.7	65°	87.3	33.4	32.0	34.1	31.1	28.9	27.8	22.3	17.6	16.9
581.4	67.5°	61.4	28.0	25.3	29.8	27.1	24.1	23.5	19.0	14.7	14.2
439.6	70°	43.8	22.8	20.8	25.5	21.7	21.2	19.9	15.8	12.0	11.5
217.6	72.5°	30.9	17.4	16.0	22.1	14.9	18.3	16.2	12.2	9.0	8.6
74.0	75°	22.8	12.4	11.3	12.9	10.8	13.8	11.5	8.1	5.6	5.4
33.4	77.5°	16.7	7.9	6.8	6.3	6.3	8.6	6.3	3.4	2.5	2.3
16.9	80°	11.7	3.6	3.2	2.7	2.5	2.0	0.9	0.5	0.2	0.2
5.9	82.5°	7.0	1.6	1.6	1.1	0.7	0.0	0.0	0.0	0.0	0.0
2.3	85°	1.6	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.9	87.5°	0.2	0.2	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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