

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: P945609

Luminaire Tested: **GALN-SB1C-735-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945609  
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-SB1C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

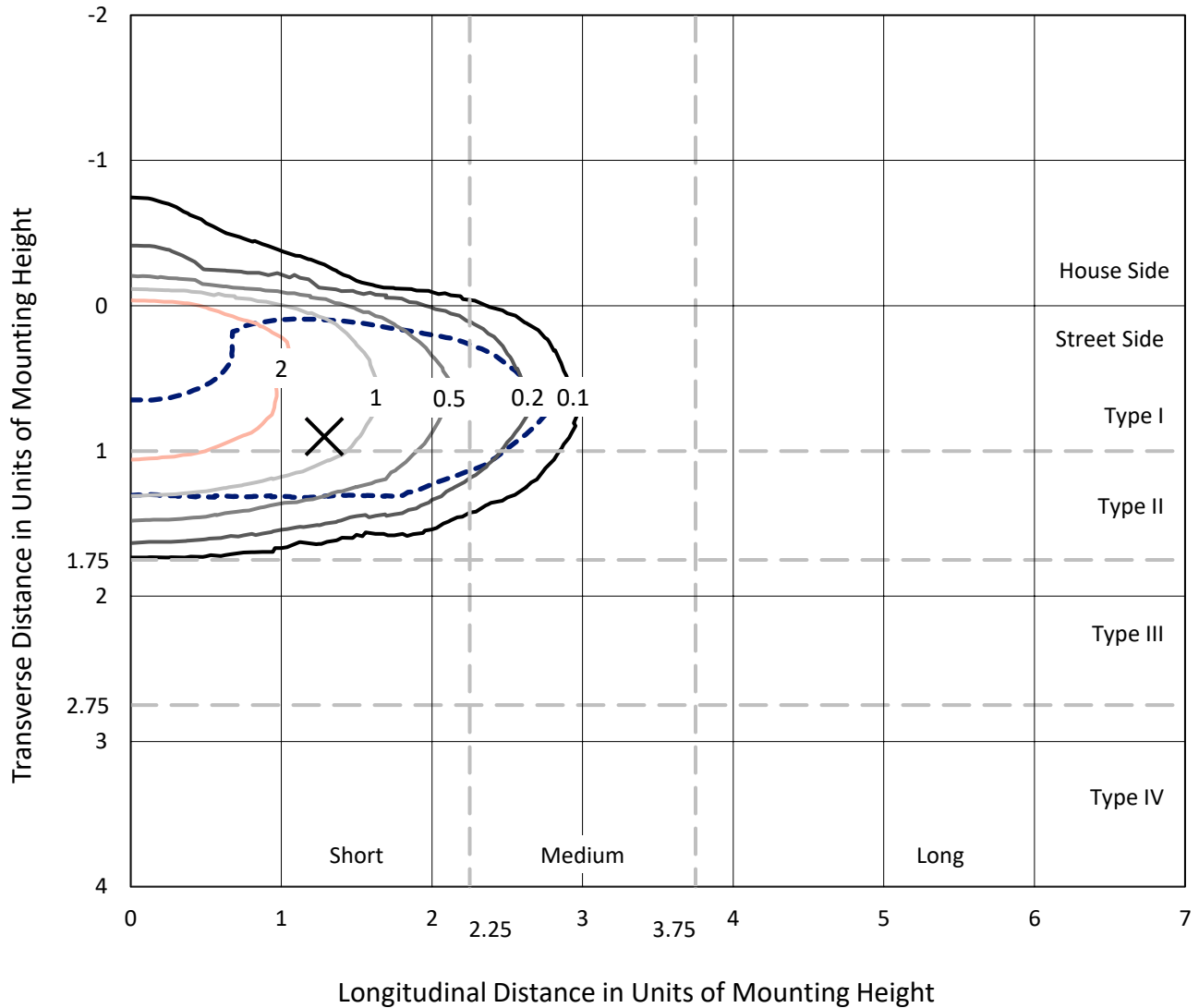
Lumens per Lamp: N/A  
Luminaire Lumens: 6387 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

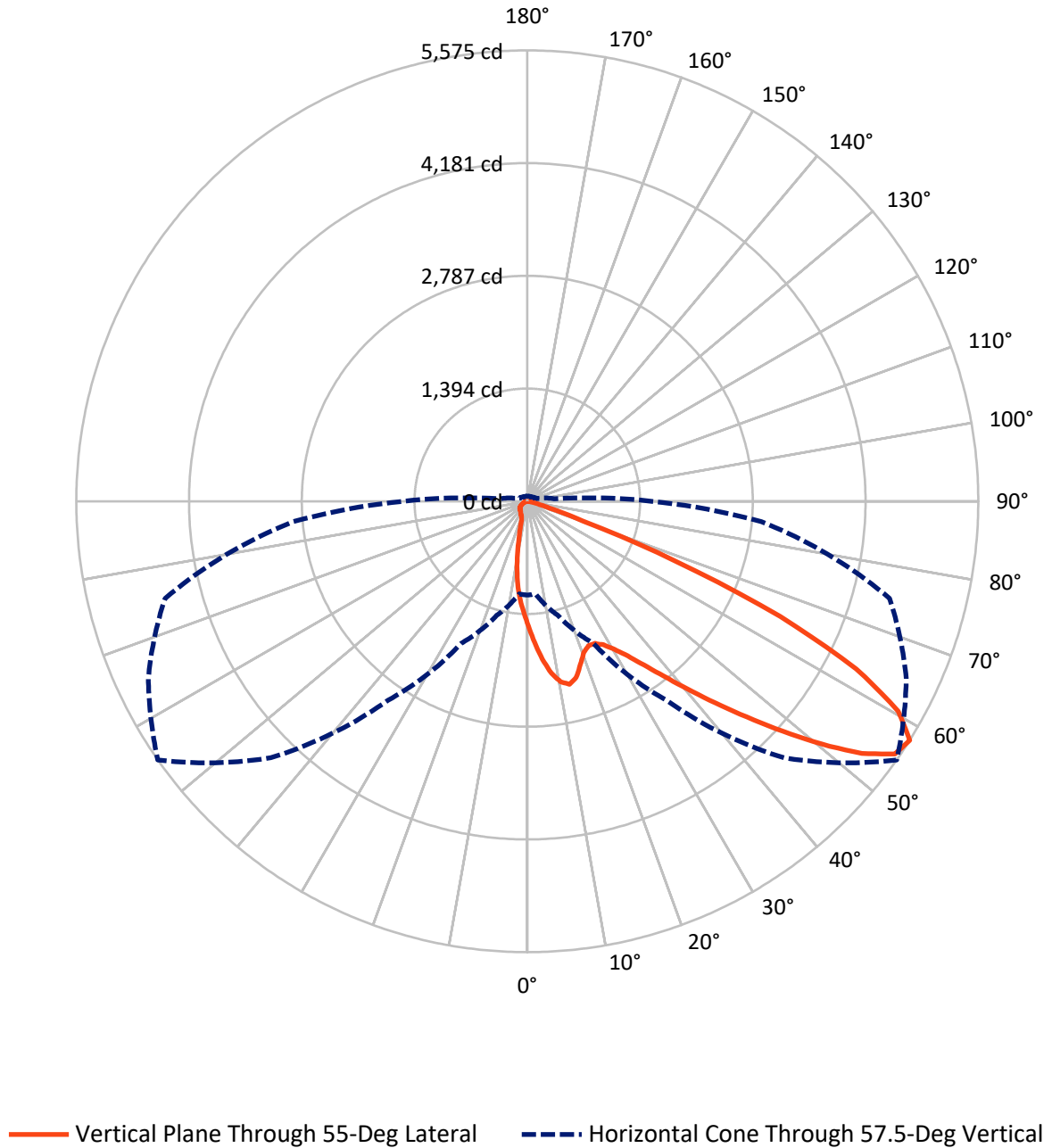
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	498.8	0.0	498.8
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	5888.2	0.0	5888.2
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	6387.0	0.0	6387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.2	2.2
10°-20°	345.9	5.4
20°-30°	553.5	8.7
30°-40°	936.8	14.7
40°-50°	1538.0	24.1
50°-60°	1690.3	26.5
60°-70°	969.6	15.2
70°-80°	198.1	3.1
80°-90°	11.7	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°	6387.0	100.0
0°-180°	6387.0	100.0

**Coefficient of Utilization**



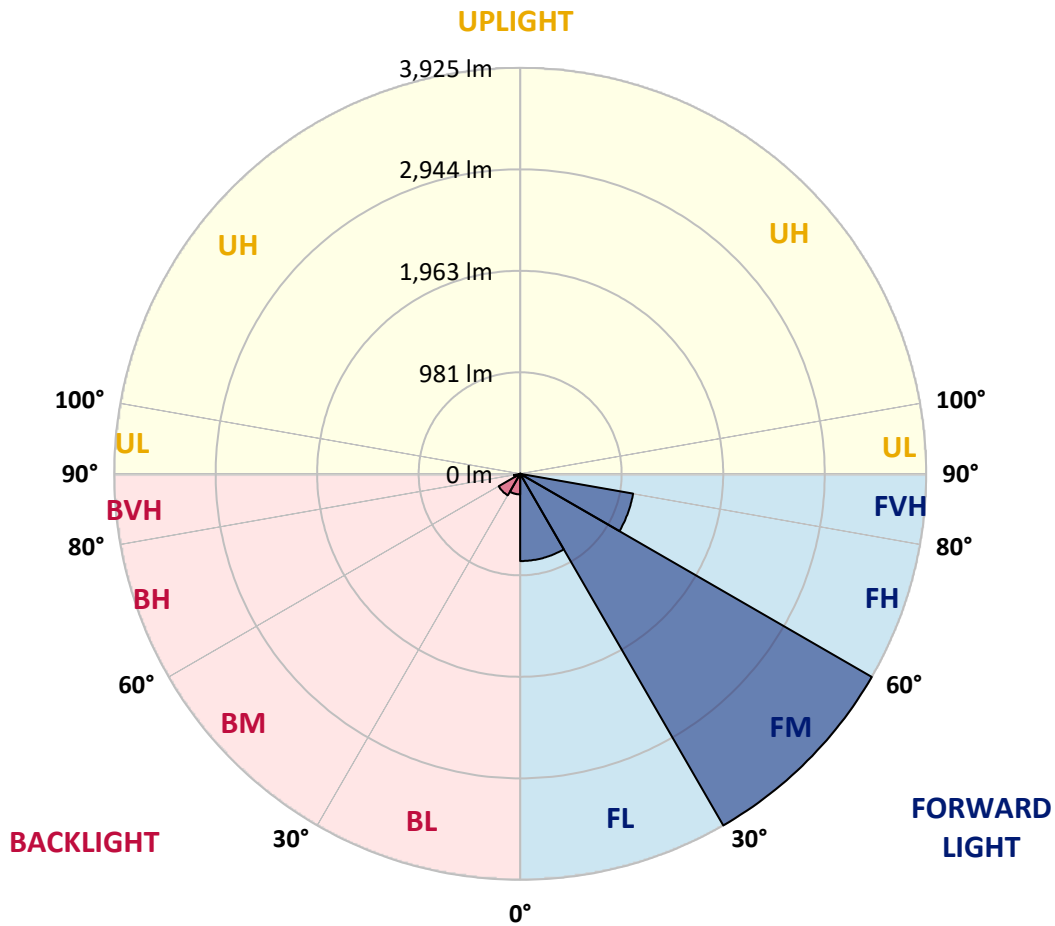
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.4	13.2			
FM (30°-60°)	3925.5	61.5			
FH (60°-80°)	1108.4	17.4			G1/1800
FVH (80°-90°)	10.9	0.2			G1/100
BL (0°-30°)	199.1	3.1	B1/500		
BM (30°-60°)	239.5	3.8	B1/1000		
BH (60°-80°)	59.3	0.9	B0/110		G0/110
BVH (80°-90°)	0.8	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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1
2.5°	1909.7	1885.7	1882.1	1877.4	1831.7	1797.5	1747.8	1693.5	1632.4	1570.2
5°	2206.3	2187.4	2183.8	2161.8	2109.8	2051.5	1963.3	1851.8	1738.0	1604.1
7.5°	2263.8	2260.2	2276.4	2275.6	2268.5	2222.4	2148.0	2015.3	1844.3	1645.8
10°	2007.4	2016.4	2064.5	2106.6	2220.4	2286.6	2270.5	2161.0	1953.8	1693.5
12.5°	1773.8	1763.2	1797.5	1845.1	1977.4	2174.4	2321.3	2282.7	2079.1	1747.4
15°	1627.3	1623.0	1642.3	1664.3	1765.2	1963.7	2262.2	2381.5	2199.6	1811.2
17.5°	1580.5	1576.9	1582.8	1588.3	1653.7	1807.3	2121.6	2442.2	2315.0	1884.1
20°	1618.7	1613.9	1613.2	1608.8	1636.0	1740.8	1994.4	2446.5	2418.5	1950.3
22.5°	1730.1	1724.6	1705.3	1688.0	1690.3	1749.8	1937.7	2403.2	2496.5	2012.1
25°	1932.2	1923.1	1882.9	1824.6	1787.6	1812.8	1946.3	2346.1	2571.0	2060.5
27.5°	2185.0	2173.2	2121.6	2034.9	1950.3	1919.6	2009.0	2306.7	2632.8	2097.6
30°	2432.7	2417.4	2366.6	2299.2	2175.5	2078.7	2122.0	2324.0	2706.4	2136.2
32.5°	2700.1	2685.6	2618.2	2534.7	2432.3	2302.0	2276.8	2408.7	2796.6	2190.1
35°	3038.4	3015.6	2919.9	2806.1	2697.4	2565.4	2486.3	2554.8	2916.7	2272.4
37.5°	3423.6	3392.9	3289.7	3132.6	2990.8	2843.1	2741.5	2755.7	3092.8	2382.7
40°	3786.7	3758.8	3663.5	3515.4	3337.4	3158.2	3049.9	3018.4	3335.8	2517.0
42.5°	4004.5	3979.3	3939.1	3876.5	3726.5	3543.7	3407.1	3338.9	3623.3	2677.7
45°	4016.7	3994.7	4048.6	4121.5	4092.0	3970.3	3803.7	3678.8	3912.0	2828.5
47.5°	3821.4	3806.4	3970.3	4224.7	4351.5	4402.7	4249.1	3990.3	4150.2	2936.8
50°	3288.9	3283.4	3620.5	4087.6	4450.3	4781.6	4718.9	4280.2	4334.9	2992.8
52.5°	2851.8	2831.7	3028.2	3648.9	4306.6	4980.8	5178.2	4564.6	4464.1	3003.4
55°	2162.9	2145.2	2391.8	2914.8	3843.0	4909.9	5514.1	4858.0	4556.7	2976.2
57.5°	1160.2	1149.2	1460.7	1940.0	3004.2	4484.6	5574.7	5168.3	4634.7	2904.1
60°	451.7	449.8	566.3	941.3	1825.8	3648.5	5268.7	5354.6	4683.5	2815.5
62.5°	273.3	279.2	298.1	422.6	806.6	2266.5	4563.4	5142.7	4716.2	2734.4
65°	226.1	226.5	228.8	290.3	386.4	948.4	3435.4	4445.6	4635.4	2589.9
67.5°	193.8	197.3	206.4	230.4	272.5	415.9	1977.8	3443.7	4144.3	2253.5
70°	152.8	157.5	169.0	189.4	210.3	260.3	731.0	2291.3	3166.0	1698.6
72.5°	128.8	128.4	134.3	154.0	167.0	183.1	281.2	1283.9	1840.0	810.9
75°	99.6	103.6	111.1	128.8	136.7	132.7	152.4	469.1	659.3	245.8
77.5°	78.0	81.1	87.8	105.2	113.0	94.1	87.8	167.8	211.9	88.2
80°	35.1	37.8	59.9	77.6	92.2	65.0	47.7	85.9	94.1	40.2
82.5°	6.3	10.6	35.1	41.0	47.3	42.1	24.8	44.5	46.1	16.1
85°	0.4	0.8	12.2	15.0	18.9	13.8	7.5	17.7	15.4	5.5
87.5°	0.0	0.0	0.0	0.4	0.4	2.0	2.4	3.2	2.4	2.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1539.1	0°	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1	1539.1
1542.7	2.5°	1514.3	1458.4	1404.0	1359.5	1333.5	1289.4	1260.3	1255.5	1243.3	1254.0
1546.6	5°	1485.2	1385.1	1283.9	1193.3	1118.9	1022.8	951.1	920.8	894.4	903.5
1556.8	7.5°	1471.4	1313.4	1155.9	1001.1	842.0	688.4	574.2	526.6	490.3	495.4
1568.3	10°	1452.9	1239.0	992.1	755.8	542.7	391.1	312.3	283.2	267.0	267.4
1585.2	12.5°	1438.7	1150.0	801.8	512.4	330.4	249.7	225.3	218.2	213.5	213.9
1610.8	15°	1431.6	1045.2	614.0	341.5	236.3	211.5	205.6	202.4	199.3	198.9
1639.1	17.5°	1419.8	928.7	449.4	249.3	206.8	198.1	193.0	189.4	185.5	184.7
1663.6	20°	1402.1	796.3	328.5	210.7	193.8	187.1	180.0	175.3	170.5	169.7
1678.9	22.5°	1369.4	656.5	252.4	194.9	184.3	176.8	168.2	162.7	157.9	157.1
1671.4	25°	1308.7	525.4	212.7	185.1	176.0	167.0	157.5	150.1	145.7	144.9
1655.3	27.5°	1231.9	412.7	193.0	176.0	165.4	157.1	146.5	139.4	135.5	134.7
1634.0	30°	1141.3	317.8	181.6	165.8	152.8	145.7	136.3	130.4	128.0	128.0
1619.1	32.5°	1043.7	254.0	176.8	155.6	141.8	133.9	126.4	124.1	123.3	122.9
1627.3	35°	951.9	220.5	174.5	147.3	131.9	124.5	121.3	121.7	123.3	123.3
1652.9	37.5°	870.4	209.9	173.3	141.4	123.3	116.6	118.5	122.1	120.5	120.5
1697.8	40°	796.7	211.1	172.5	137.1	116.2	112.2	116.2	113.4	109.5	109.1
1752.6	42.5°	740.4	220.9	170.9	133.5	111.8	109.1	107.5	103.2	102.8	103.6
1809.3	45°	699.5	229.6	170.5	131.9	107.1	102.0	100.0	95.7	103.6	105.5
1832.5	47.5°	651.0	229.6	170.5	126.4	99.2	97.3	94.1	89.4	97.3	99.2
1810.5	50°	588.4	215.0	163.8	120.1	92.9	91.8	86.2	80.3	78.8	79.9
1758.9	52.5°	509.2	188.6	146.9	111.5	86.6	84.3	77.6	73.3	72.1	72.1
1666.3	55°	419.0	157.9	124.1	98.9	79.9	75.6	70.9	68.9	67.7	67.0
1536.7	57.5°	340.7	129.6	99.6	87.8	73.6	68.1	66.6	64.2	62.2	61.0
1428.4	60°	279.6	102.0	82.3	78.0	67.3	62.2	61.8	58.7	53.6	52.8
1339.0	62.5°	215.8	74.8	69.3	67.7	61.0	56.7	55.9	49.6	41.7	40.2
1212.2	65°	152.4	58.3	55.9	59.5	54.3	50.4	48.4	39.0	30.7	29.5
1014.5	67.5°	107.1	48.8	44.1	52.0	47.3	42.1	41.0	33.1	25.6	24.8
767.2	70°	76.4	39.8	36.2	44.5	37.8	37.0	34.7	27.6	20.9	20.1
379.7	72.5°	54.0	30.3	28.0	38.6	26.0	31.9	28.4	21.3	15.8	15.0
129.2	75°	39.8	21.7	19.7	22.4	18.9	24.0	20.1	14.2	9.8	9.5
58.3	77.5°	29.1	13.8	11.8	11.0	11.0	15.0	11.0	5.9	4.3	3.9
29.5	80°	20.5	6.3	5.5	4.7	4.3	3.5	1.6	0.8	0.4	0.4
10.2	82.5°	12.2	2.8	2.8	2.0	1.2	0.0	0.0	0.0	0.0	0.0
3.9	85°	2.8	1.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.6	87.5°	0.4	0.4	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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