

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: P945630

Luminaire Tested: **GALN-SB1C-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945630  
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-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

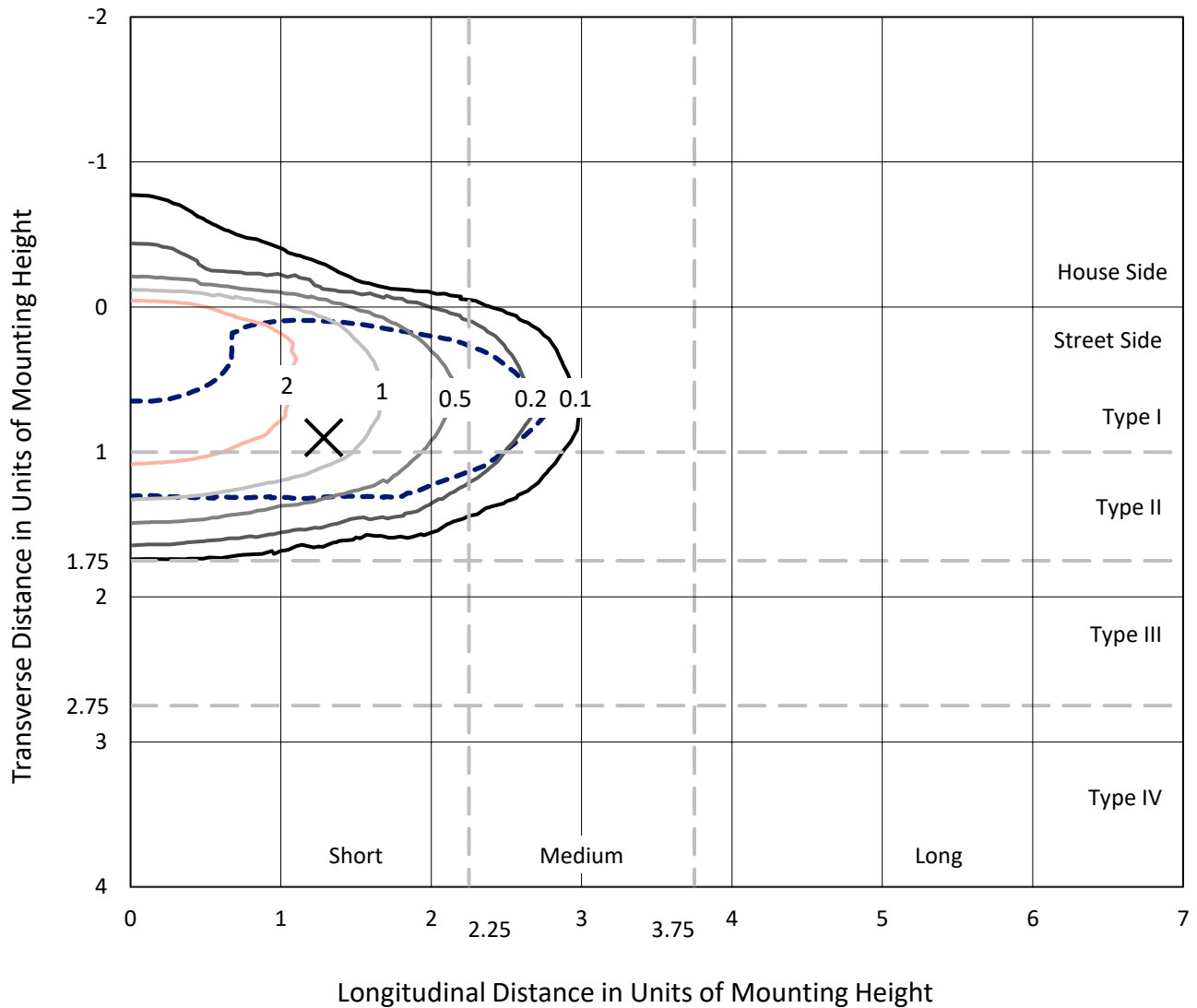
Lumens per Lamp: N/A  
Luminaire Lumens: 6758 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

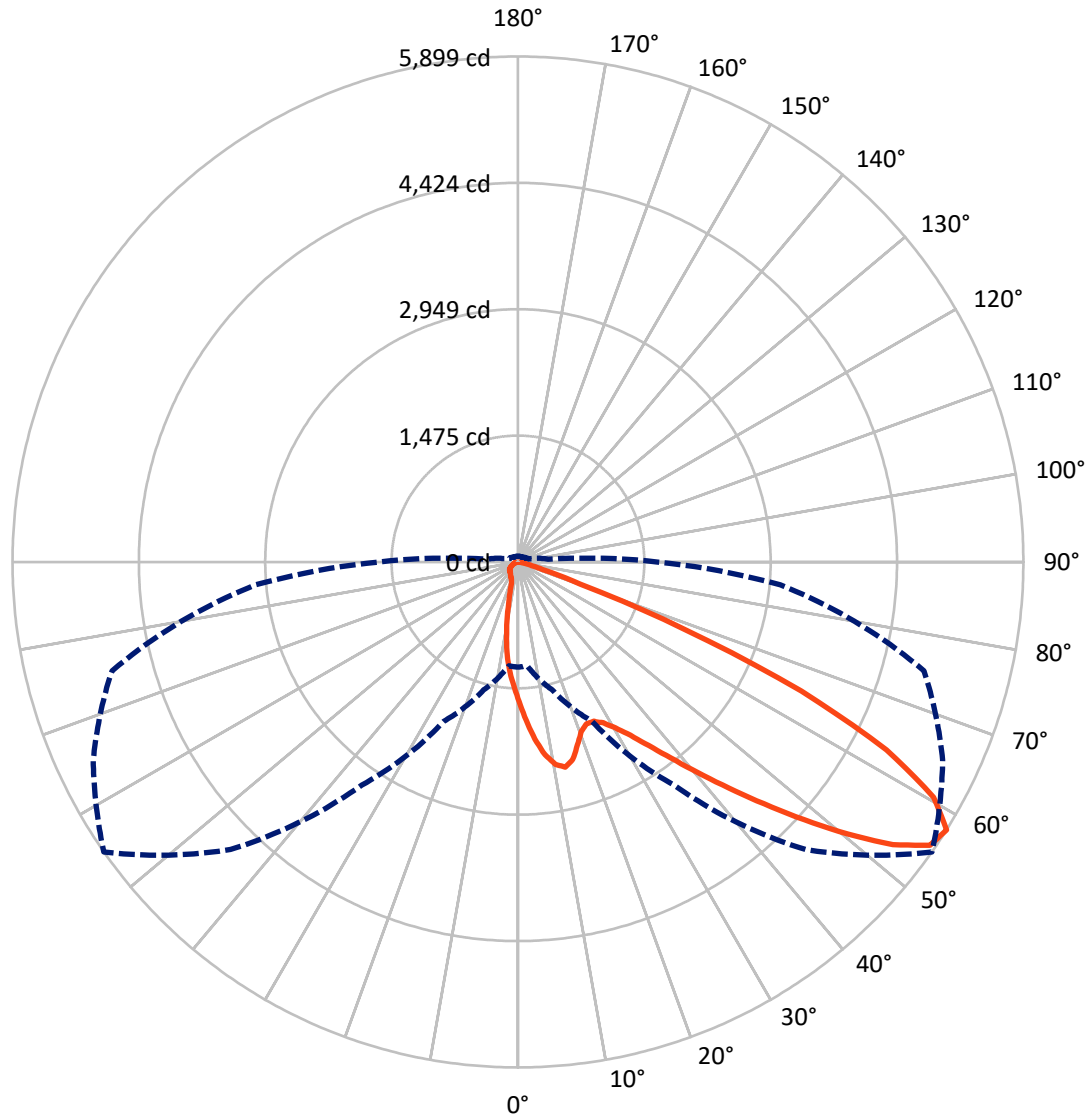
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P945630  
CATALOG NUMBER: GALN-SB1C-740-U-AFL-HSS

### 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	527.8	0.0	527.8
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	6230.2	0.0	6230.2
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	6758.0	0.0	6758.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.5	2.2
10°-20°	366.0	5.4
20°-30°	585.6	8.7
30°-40°	991.2	14.7
40°-50°	1627.3	24.1
50°-60°	1788.5	26.5
60°-70°	1025.9	15.2
70°-80°	209.6	3.1
80°-90°	12.4	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°	6758.0	100.0
0°-180°	6758.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945630

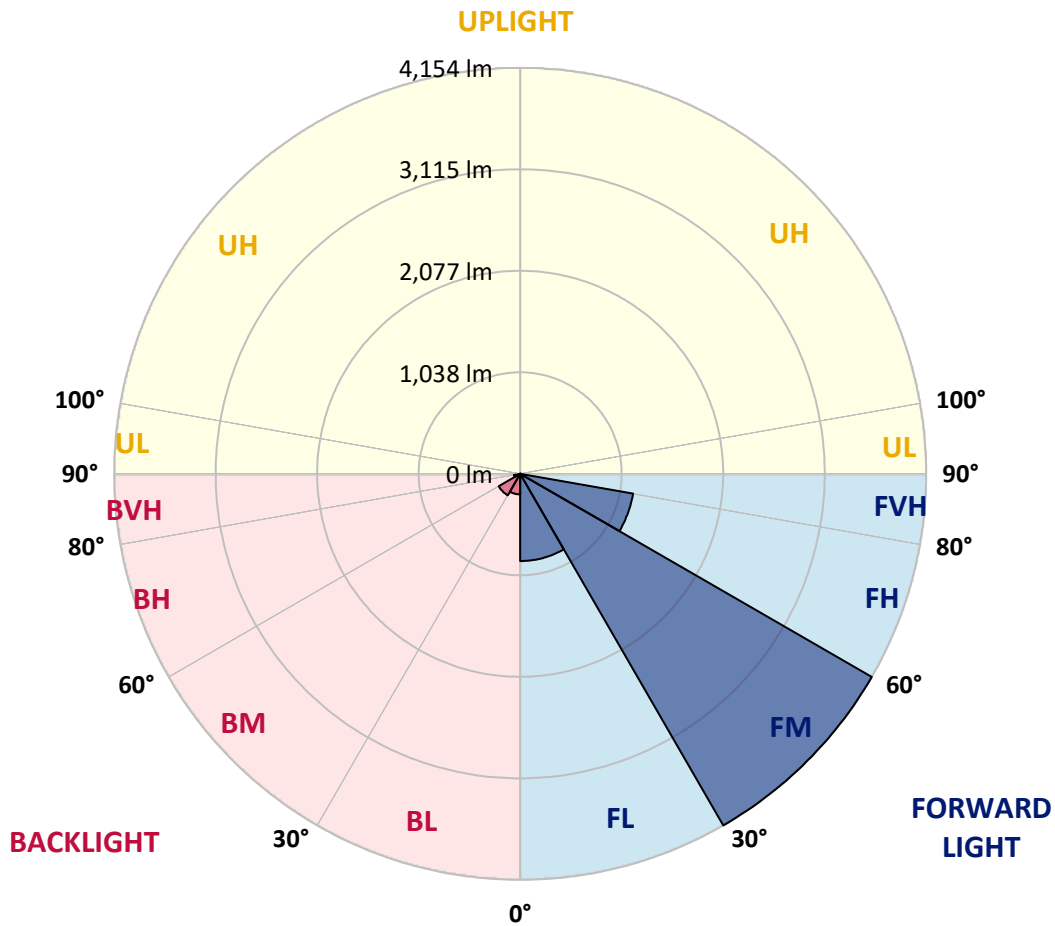
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.4	13.2			
FM (30°-60°)	4153.5	61.5			
FH (60°-80°)	1172.7	17.4			G1/1800
FVH (80°-90°)	11.5	0.2			G1/100
BL (0°-30°)	210.7	3.1	B1/500		
BM (30°-60°)	253.5	3.8	B1/1000		
BH (60°-80°)	62.8	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



REPORT NUMBER: P945630

CATALOG NUMBER: GALN-SB1C-740-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5
2.5°	2020.6	1995.2	1991.5	1986.5	1938.1	1901.9	1849.4	1791.9	1727.3	1661.4
5°	2334.4	2314.4	2310.7	2287.3	2232.3	2170.7	2077.3	1959.4	1839.0	1697.3
7.5°	2395.3	2391.5	2408.6	2407.8	2400.3	2351.5	2272.7	2132.3	1951.5	1741.4
10°	2124.0	2133.6	2184.4	2229.0	2349.4	2419.4	2402.3	2286.5	2067.3	1791.9
12.5°	1876.9	1865.6	1901.9	1952.3	2092.3	2300.7	2456.1	2415.3	2199.8	1849.0
15°	1721.9	1717.3	1737.7	1761.0	1867.7	2077.7	2393.6	2519.9	2327.3	1916.5
17.5°	1672.3	1668.5	1674.8	1680.6	1749.8	1912.3	2244.8	2584.0	2449.4	1993.6
20°	1712.7	1707.7	1706.9	1702.3	1731.0	1841.9	2110.2	2588.6	2559.0	2063.6
22.5°	1830.6	1824.8	1804.4	1786.0	1788.5	1851.5	2050.2	2542.8	2641.5	2129.0
25°	2044.4	2034.8	1992.3	1930.6	1891.5	1918.1	2059.4	2482.4	2720.3	2180.2
27.5°	2311.9	2299.4	2244.8	2153.2	2063.6	2031.1	2125.6	2440.7	2785.7	2219.4
30°	2574.0	2557.8	2504.0	2432.8	2301.9	2199.4	2245.2	2459.0	2863.6	2260.2
32.5°	2857.0	2841.6	2770.3	2682.0	2573.6	2435.7	2409.0	2548.6	2959.1	2317.3
35°	3214.9	3190.8	3089.5	2969.1	2854.1	2714.5	2630.7	2703.2	3086.2	2404.4
37.5°	3622.5	3590.0	3480.8	3314.5	3164.5	3008.2	2900.7	2915.7	3272.4	2521.1
40°	4006.7	3977.1	3876.3	3719.6	3531.2	3341.6	3227.0	3193.7	3529.6	2663.2
42.5°	4237.1	4210.5	4168.0	4101.7	3942.9	3749.6	3605.0	3532.9	3833.8	2833.2
45°	4250.0	4226.7	4283.8	4360.9	4329.6	4200.9	4024.6	3892.5	4139.2	2992.8
47.5°	4043.4	4027.5	4200.9	4470.1	4604.3	4658.4	4495.9	4222.1	4391.3	3107.4
50°	3480.0	3474.1	3830.8	4325.1	4708.8	5059.3	4993.0	4528.8	4586.8	3166.6
52.5°	3017.4	2996.2	3204.1	3860.8	4556.7	5270.2	5478.9	4829.7	4723.4	3177.8
55°	2288.6	2269.8	2530.7	3084.1	4066.3	5195.2	5834.4	5140.1	4821.4	3149.1
57.5°	1227.6	1216.0	1545.6	2052.7	3178.7	4745.1	5898.6	5468.5	4903.9	3072.8
60°	478.0	475.9	599.2	995.9	1931.9	3860.4	5574.8	5665.6	4955.5	2979.1
62.5°	289.2	295.4	315.5	447.1	853.4	2398.2	4828.4	5441.4	4990.1	2893.2
65°	239.2	239.6	242.1	307.1	408.8	1003.4	3635.0	4703.8	4904.7	2740.3
67.5°	205.0	208.8	218.4	243.8	288.4	440.0	2092.7	3643.7	4385.1	2384.4
70°	161.7	166.7	178.8	200.4	222.5	275.4	773.4	2424.4	3349.9	1797.3
72.5°	136.3	135.8	142.1	162.9	176.7	193.8	297.5	1358.5	1946.9	858.0
75°	105.4	109.6	117.5	136.3	144.6	140.4	161.3	496.3	697.6	260.0
77.5°	82.5	85.8	92.9	111.3	119.6	99.6	92.9	177.5	224.2	93.3
80°	37.1	40.0	63.3	82.1	97.5	68.8	50.4	90.8	99.6	42.5
82.5°	6.7	11.3	37.1	43.3	50.0	44.6	26.3	47.1	48.8	17.1
85°	0.4	0.8	12.9	15.8	20.0	14.6	7.9	18.8	16.3	5.8
87.5°	0.0	0.0	0.0	0.4	0.4	2.1	2.5	3.3	2.5	2.1
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°
1628.5	0°	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5	1628.5
1632.3	2.5°	1602.3	1543.1	1485.6	1438.5	1411.0	1364.3	1333.5	1328.5	1315.6	1326.8
1636.4	5°	1571.4	1465.6	1358.5	1262.6	1183.9	1082.2	1006.4	974.3	946.4	955.9
1647.3	7.5°	1556.8	1389.7	1223.1	1059.3	890.9	728.4	607.6	557.1	518.8	524.2
1659.3	10°	1537.3	1311.0	1049.7	799.7	574.2	413.8	330.5	299.6	282.5	282.9
1677.3	12.5°	1522.2	1216.8	848.4	542.1	349.6	264.2	238.4	230.9	225.9	226.3
1704.4	15°	1514.7	1106.0	649.7	361.3	250.0	223.8	217.5	214.2	210.9	210.4
1734.4	17.5°	1502.2	982.6	475.5	263.8	218.8	209.6	204.2	200.4	196.3	195.4
1760.2	20°	1483.5	842.6	347.5	222.9	205.0	197.9	190.4	185.4	180.4	179.6
1776.4	22.5°	1448.9	694.7	267.1	206.3	195.0	187.1	177.9	172.1	167.1	166.3
1768.5	25°	1384.7	555.9	225.0	195.9	186.3	176.7	166.7	158.8	154.2	153.4
1751.4	27.5°	1303.5	436.7	204.2	186.3	175.0	166.3	155.0	147.5	143.3	142.5
1728.9	30°	1207.6	336.3	192.1	175.4	161.7	154.2	144.2	137.9	135.4	135.4
1713.1	32.5°	1104.3	268.8	187.1	164.6	150.0	141.7	133.8	131.3	130.4	130.0
1721.9	35°	1007.2	233.4	184.6	155.9	139.6	131.7	128.3	128.8	130.4	130.4
1748.9	37.5°	920.9	222.1	183.4	149.6	130.4	123.3	125.4	129.2	127.5	127.5
1796.4	40°	843.0	223.4	182.5	145.0	122.9	118.8	122.9	120.0	115.8	115.4
1854.4	42.5°	783.4	233.8	180.9	141.3	118.3	115.4	113.8	109.2	108.8	109.6
1914.4	45°	740.1	242.9	180.4	139.6	113.3	107.9	105.8	101.3	109.6	111.7
1939.0	47.5°	688.8	242.9	180.4	133.8	105.0	102.9	99.6	94.6	102.9	105.0
1915.6	50°	622.6	227.5	173.4	127.1	98.3	97.1	91.3	85.0	83.3	84.6
1861.0	52.5°	538.8	199.6	155.4	117.9	91.7	89.2	82.1	77.5	76.3	76.3
1763.1	55°	443.4	167.1	131.3	104.6	84.6	80.0	75.0	72.9	71.7	70.8
1626.0	57.5°	360.5	137.1	105.4	92.9	77.9	72.1	70.4	67.9	65.8	64.6
1511.4	60°	295.9	107.9	87.1	82.5	71.3	65.8	65.4	62.1	56.7	55.8
1416.8	62.5°	228.4	79.2	73.3	71.7	64.6	60.0	59.2	52.5	44.2	42.5
1282.6	65°	161.3	61.7	59.2	62.9	57.5	53.3	51.3	41.3	32.5	31.3
1073.5	67.5°	113.3	51.7	46.7	55.0	50.0	44.6	43.3	35.0	27.1	26.3
811.8	70°	80.8	42.1	38.3	47.1	40.0	39.2	36.7	29.2	22.1	21.3
401.7	72.5°	57.1	32.1	29.6	40.8	27.5	33.8	30.0	22.5	16.7	15.8
136.7	75°	42.1	22.9	20.8	23.8	20.0	25.4	21.3	15.0	10.4	10.0
61.7	77.5°	30.8	14.6	12.5	11.7	11.7	15.8	11.7	6.3	4.6	4.2
31.3	80°	21.7	6.7	5.8	5.0	4.6	3.8	1.7	0.8	0.4	0.4
10.8	82.5°	12.9	2.9	2.9	2.1	1.3	0.0	0.0	0.0	0.0	0.0
4.2	85°	2.9	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.7	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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