

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: P946218

Luminaire Tested: **GALN-SB1D-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946218  
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-SB1D-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

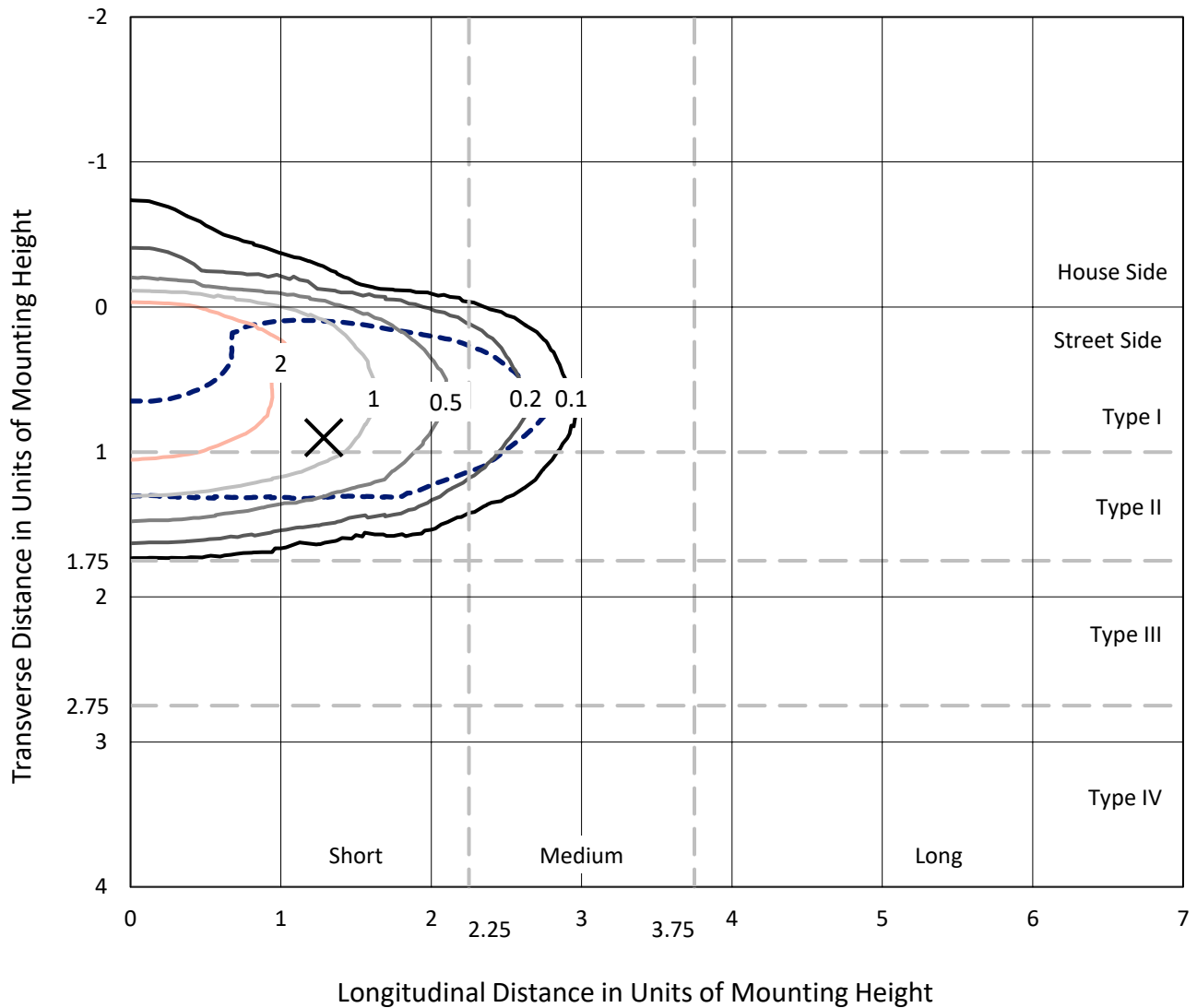
Lumens per Lamp: N/A  
Luminaire Lumens: 6289 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

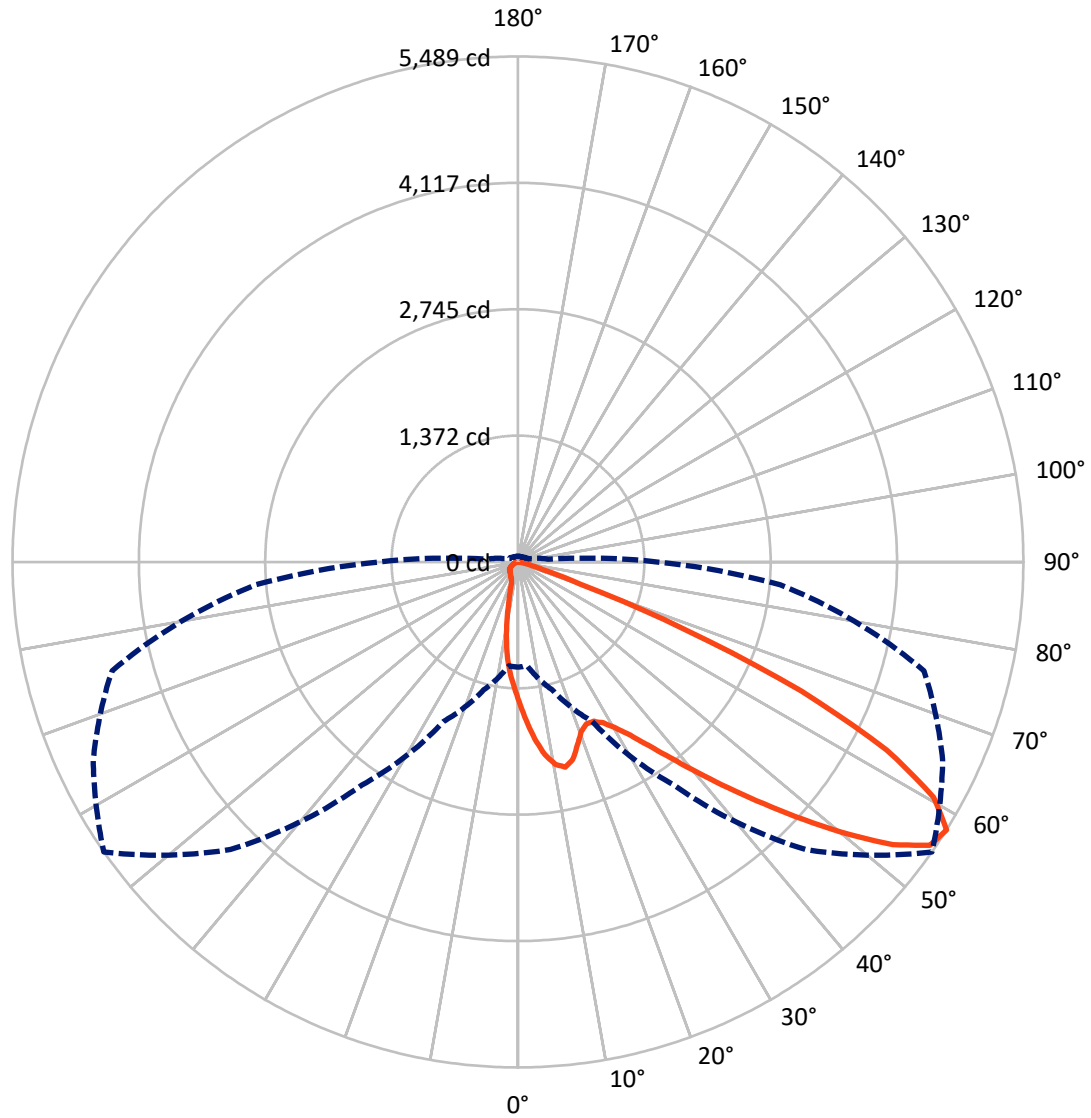
✕ Max cd  
 - - - 1/2 Max cd



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



— 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	491.2	0.0	491.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	5797.8	0.0	5797.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	6289.0	0.0	6289.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.0	2.2
10°-20°	340.6	5.4
20°-30°	545.0	8.7
30°-40°	922.4	14.7
40°-50°	1514.4	24.1
50°-60°	1664.4	26.5
60°-70°	954.7	15.2
70°-80°	195.1	3.1
80°-90°	11.5	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°	6289.0	100.0
0°-180°	6289.0	100.0

**Coefficient of Utilization**



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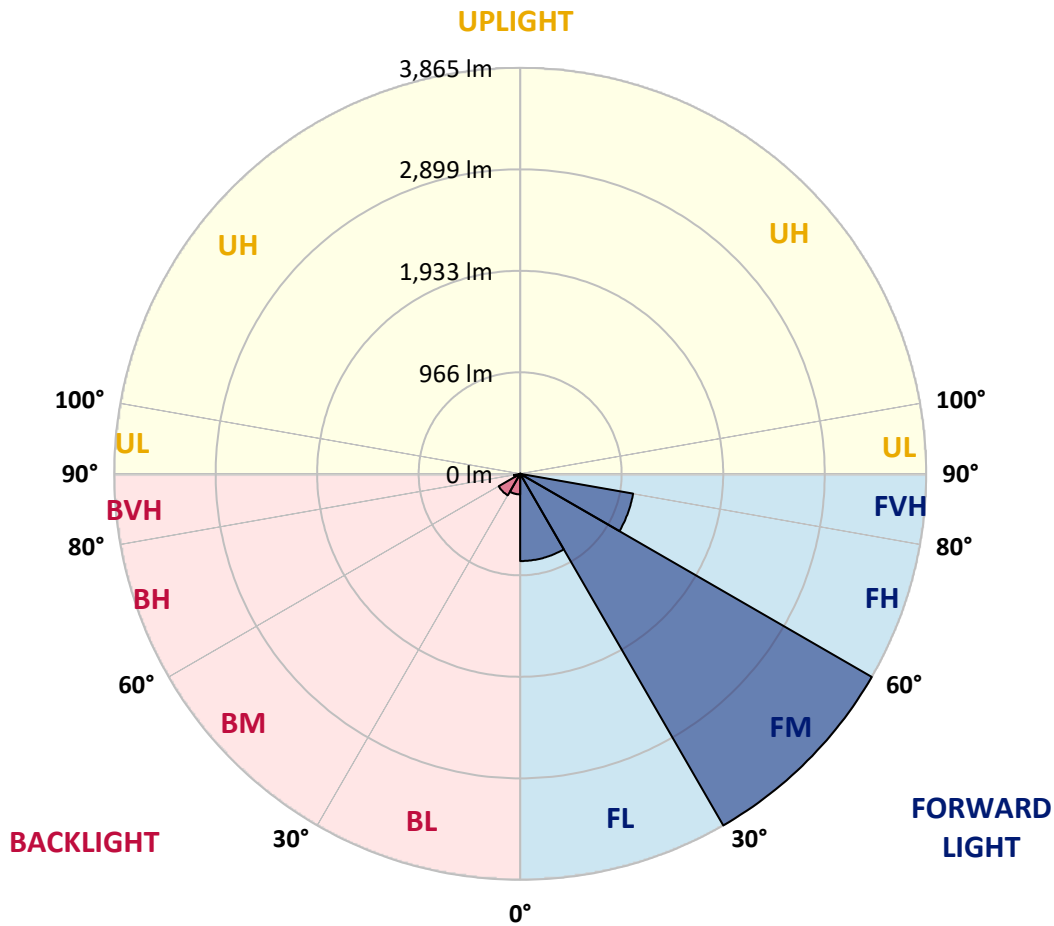
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.5	13.2			
FM (30°-60°)	3865.3	61.5			
FH (60°-80°)	1091.4	17.4			G1/1800
FVH (80°-90°)	10.7	0.2			G1/100
BL (0°-30°)	196.1	3.1	B1/500		
BM (30°-60°)	235.9	3.8	B1/1000		
BH (60°-80°)	58.4	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°	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5
2.5°	1880.4	1856.8	1853.3	1848.6	1803.6	1769.9	1721.0	1667.5	1607.4	1546.1
5°	2172.4	2153.8	2150.3	2128.6	2077.4	2020.0	1933.1	1823.4	1711.3	1579.5
7.5°	2229.0	2225.5	2241.4	2240.7	2233.7	2188.3	2115.0	1984.3	1816.0	1620.6
10°	1976.6	1985.5	2032.8	2074.3	2186.4	2251.5	2235.6	2127.8	1923.8	1667.5
12.5°	1746.6	1736.1	1769.9	1816.8	1947.1	2141.0	2285.7	2247.6	2047.2	1720.6
15°	1602.4	1598.1	1617.1	1638.8	1738.1	1933.5	2227.5	2345.0	2165.8	1783.5
17.5°	1556.2	1552.7	1558.5	1564.0	1628.3	1779.6	2089.0	2404.7	2279.4	1855.2
20°	1593.8	1589.2	1588.4	1584.1	1610.9	1714.0	1963.8	2409.0	2381.4	1920.3
22.5°	1703.6	1698.1	1679.1	1662.1	1664.4	1723.0	1907.9	2366.3	2458.2	1981.2
25°	1902.5	1893.6	1854.0	1796.6	1760.2	1785.0	1916.5	2310.1	2531.5	2028.9
27.5°	2151.5	2139.8	2089.0	2003.7	1920.3	1890.1	1978.1	2271.3	2592.4	2065.4
30°	2395.4	2380.3	2330.2	2263.9	2142.2	2046.8	2089.4	2288.4	2664.9	2103.4
32.5°	2658.7	2644.4	2578.0	2495.8	2395.0	2266.6	2241.8	2371.7	2753.7	2156.5
35°	2991.8	2969.3	2875.1	2763.0	2656.0	2526.1	2448.1	2515.6	2872.0	2237.6
37.5°	3371.1	3340.8	3239.2	3084.5	2944.9	2799.5	2699.4	2713.4	3045.3	2346.1
40°	3728.6	3701.1	3607.2	3461.4	3286.2	3109.7	3003.1	2972.0	3284.6	2478.4
42.5°	3943.1	3918.3	3878.7	3817.0	3669.3	3489.4	3354.8	3287.7	3567.7	2636.6
45°	3955.1	3933.4	3986.5	4058.3	4029.2	3909.3	3745.3	3622.4	3851.9	2785.1
47.5°	3762.8	3748.0	3909.3	4159.9	4284.7	4335.1	4183.9	3929.1	4086.6	2891.8
50°	3238.5	3233.0	3565.0	4024.9	4382.1	4708.2	4646.5	4214.5	4268.4	2946.8
52.5°	2808.0	2788.2	2981.7	3592.9	4240.5	4904.4	5098.7	4494.5	4395.6	2957.3
55°	2129.8	2112.3	2355.1	2870.1	3784.1	4834.6	5429.5	4783.4	4486.8	2930.5
57.5°	1142.4	1131.6	1438.3	1910.3	2958.1	4415.8	5489.2	5089.0	4563.5	2859.6
60°	444.8	442.9	557.6	926.8	1797.8	3592.5	5187.9	5272.4	4611.6	2772.3
62.5°	269.1	274.9	293.6	416.1	794.2	2231.7	4493.4	5063.8	4643.8	2692.4
65°	222.6	223.0	225.3	285.8	380.4	933.8	3382.7	4377.4	4564.3	2550.1
67.5°	190.8	194.3	203.2	226.9	268.4	409.5	1947.5	3390.9	4080.7	2219.0
70°	150.5	155.1	166.4	186.5	207.1	256.3	719.7	2256.2	3117.5	1672.6
72.5°	126.8	126.4	132.2	151.6	164.4	180.3	276.9	1264.2	1811.8	798.5
75°	98.1	102.0	109.4	126.8	134.6	130.7	150.1	461.9	649.2	242.0
77.5°	76.8	79.9	86.5	103.5	111.3	92.7	86.5	165.2	208.6	86.9
80°	34.5	37.2	58.9	76.4	90.7	64.0	46.9	84.5	92.7	39.6
82.5°	6.2	10.5	34.5	40.3	46.5	41.5	24.4	43.8	45.4	15.9
85°	0.4	0.8	12.0	14.7	18.6	13.6	7.4	17.5	15.1	5.4
87.5°	0.0	0.0	0.0	0.4	0.4	1.9	2.3	3.1	2.3	1.9
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°
1515.5	0°	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5	1515.5
1519.0	2.5°	1491.1	1436.0	1382.5	1338.7	1313.1	1269.6	1240.9	1236.3	1224.3	1234.7
1522.9	5°	1462.4	1363.9	1264.2	1175.0	1101.7	1007.1	936.5	906.7	880.7	889.6
1532.9	7.5°	1448.8	1293.3	1138.2	985.8	829.1	677.9	565.4	518.5	482.8	487.8
1544.2	10°	1430.6	1220.0	976.8	744.2	534.4	385.1	307.5	278.8	262.9	263.3
1560.9	12.5°	1416.6	1132.4	789.5	504.5	325.4	245.9	221.8	214.8	210.2	210.6
1586.1	15°	1409.6	1029.2	604.6	336.2	232.7	208.2	202.4	199.3	196.2	195.8
1614.0	17.5°	1398.0	914.4	442.5	245.5	203.6	195.1	190.0	186.5	182.7	181.9
1638.0	20°	1380.5	784.1	323.4	207.5	190.8	184.2	177.2	172.6	167.9	167.1
1653.2	22.5°	1348.4	646.5	248.6	192.0	181.5	174.1	165.6	160.2	155.5	154.7
1645.8	25°	1288.6	517.3	209.4	182.3	173.3	164.4	155.1	147.7	143.5	142.7
1629.9	27.5°	1213.0	406.4	190.0	173.3	162.9	154.7	144.3	137.3	133.4	132.6
1609.0	30°	1123.8	312.9	178.8	163.3	150.5	143.5	134.2	128.4	126.0	126.0
1594.2	32.5°	1027.7	250.1	174.1	153.2	139.6	131.8	124.5	122.2	121.4	121.0
1602.4	35°	937.3	217.2	171.8	145.0	129.9	122.5	119.4	119.8	121.4	121.4
1627.6	37.5°	857.0	206.7	170.6	139.2	121.4	114.8	116.7	120.2	118.7	118.7
1671.8	40°	784.5	207.9	169.9	135.0	114.4	110.5	114.4	111.7	107.8	107.4
1725.7	42.5°	729.1	217.6	168.3	131.5	110.1	107.4	105.9	101.6	101.2	102.0
1781.5	45°	688.7	226.1	167.9	129.9	105.5	100.4	98.5	94.2	102.0	103.9
1804.4	47.5°	641.0	226.1	167.9	124.5	97.7	95.8	92.7	88.0	95.8	97.7
1782.7	50°	579.4	211.7	161.3	118.3	91.5	90.4	84.9	79.1	77.6	78.7
1731.9	52.5°	501.4	185.8	144.6	109.7	85.3	83.0	76.4	72.1	71.0	71.0
1640.8	55°	412.6	155.5	122.2	97.3	78.7	74.5	69.8	67.9	66.7	65.9
1513.2	57.5°	335.4	127.6	98.1	86.5	72.5	67.1	65.5	63.2	61.3	60.1
1406.5	60°	275.3	100.4	81.0	76.8	66.3	61.3	60.9	57.8	52.7	52.0
1318.5	62.5°	212.5	73.7	68.3	66.7	60.1	55.8	55.1	48.9	41.1	39.6
1193.6	65°	150.1	57.4	55.1	58.6	53.5	49.6	47.7	38.4	30.2	29.1
999.0	67.5°	105.5	48.1	43.4	51.2	46.5	41.5	40.3	32.6	25.2	24.4
755.4	70°	75.2	39.2	35.7	43.8	37.2	36.5	34.1	27.1	20.6	19.8
373.8	72.5°	53.1	29.9	27.5	38.0	25.6	31.4	27.9	20.9	15.5	14.7
127.2	75°	39.2	21.3	19.4	22.1	18.6	23.7	19.8	14.0	9.7	9.3
57.4	77.5°	28.7	13.6	11.6	10.9	10.9	14.7	10.9	5.8	4.3	3.9
29.1	80°	20.2	6.2	5.4	4.7	4.3	3.5	1.6	0.8	0.4	0.4
10.1	82.5°	12.0	2.7	2.7	1.9	1.2	0.0	0.0	0.0	0.0	0.0
3.9	85°	2.7	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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