

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: P945693

Luminaire Tested: **GALN-SB1C-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945693  
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-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

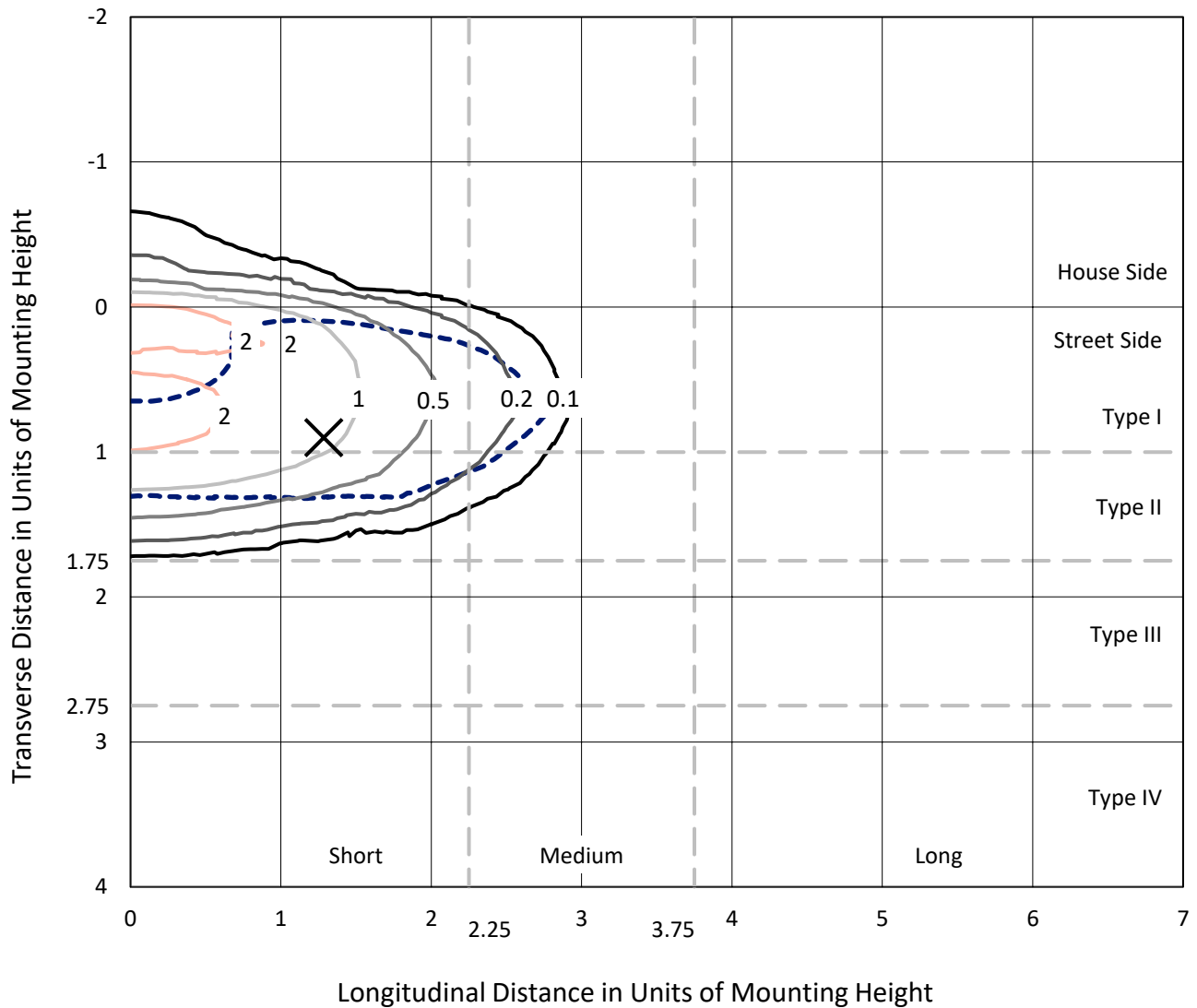
Lumens per Lamp: N/A  
Luminaire Lumens: 5554 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

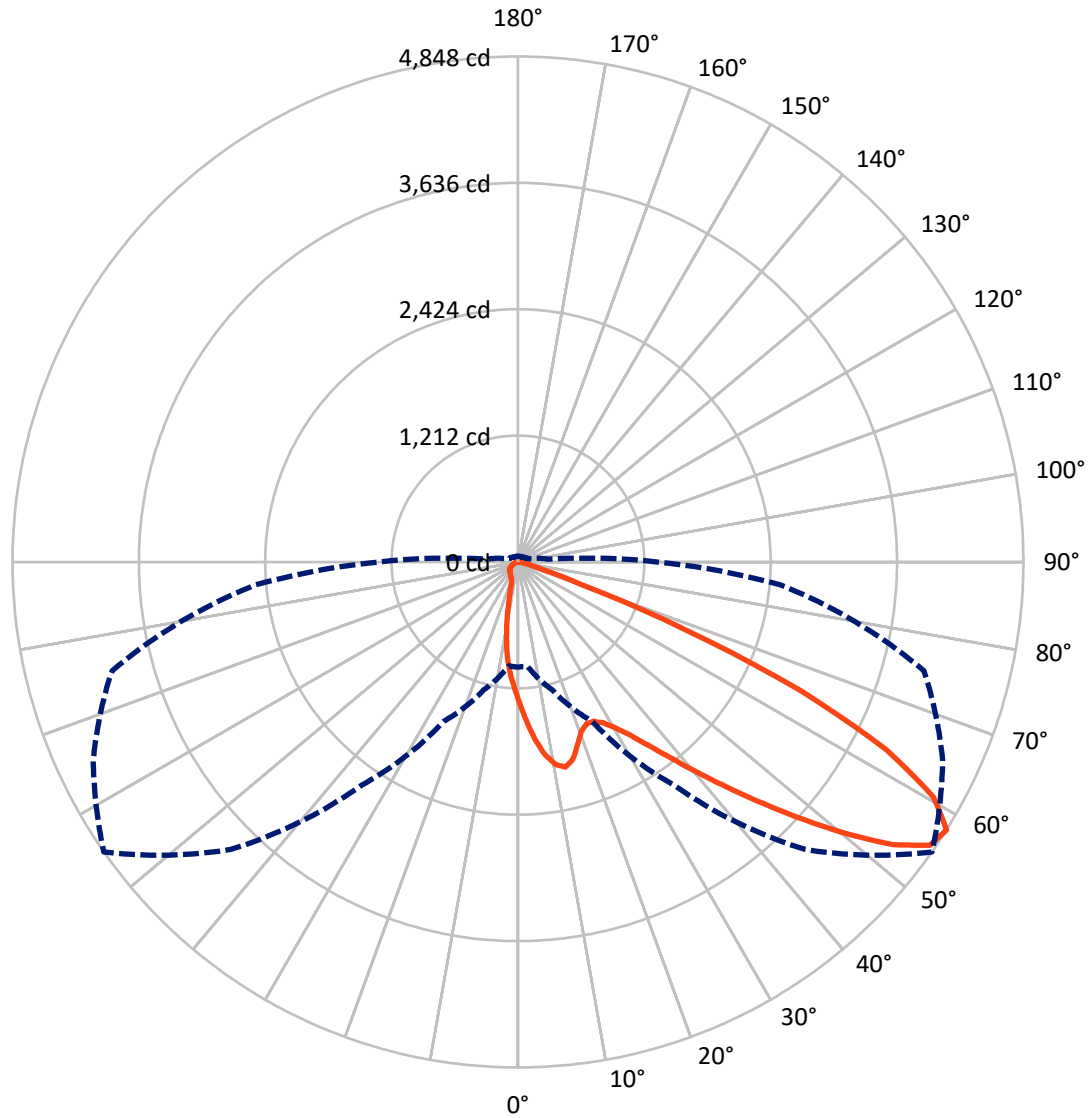
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	433.7	0.0	433.7
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	5120.3	0.0	5120.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	5554.0	0.0	5554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	2.2
10°-20°	300.8	5.4
20°-30°	481.3	8.7
30°-40°	814.6	14.7
40°-50°	1337.4	24.1
50°-60°	1469.9	26.5
60°-70°	843.1	15.2
70°-80°	172.3	3.1
80°-90°	10.2	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°	5554.0	100.0
0°-180°	5554.0	100.0

**Coefficient of Utilization**

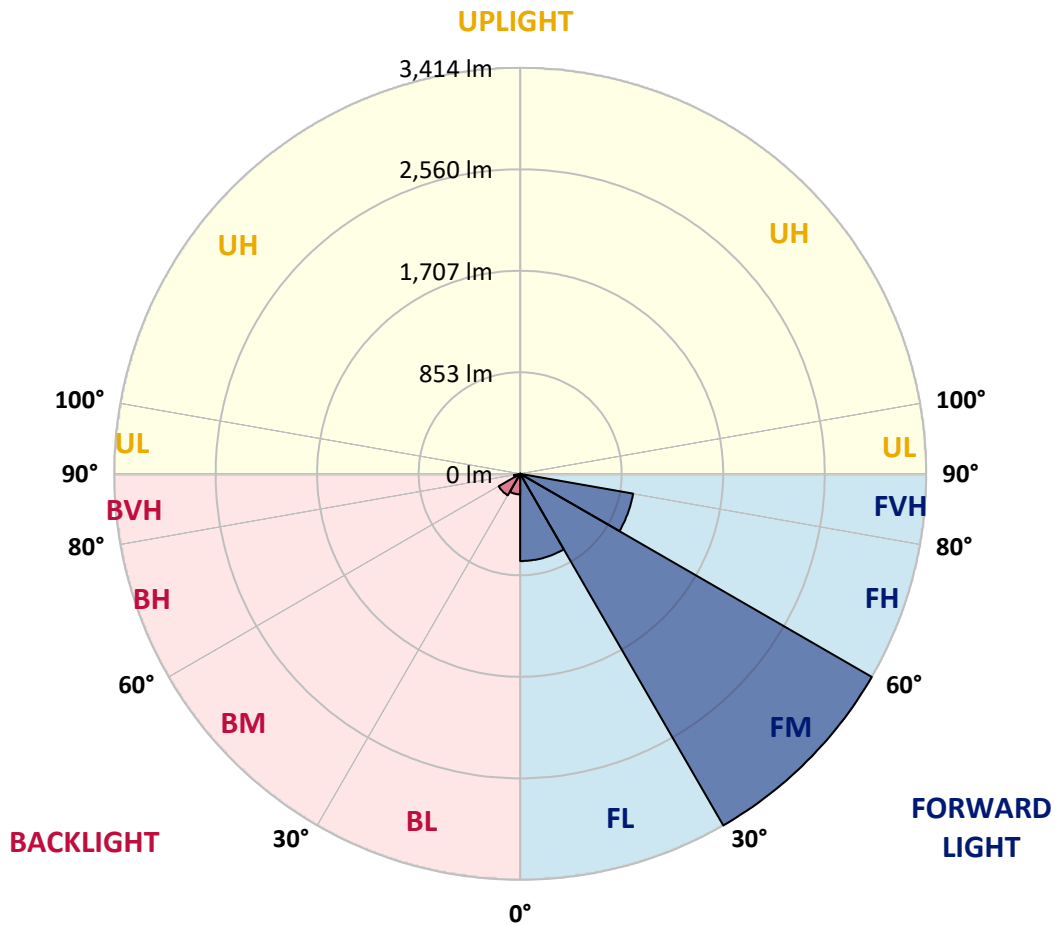


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.4	13.2			
FM (30°-60°)	3413.5	61.5			
FH (60°-80°)	963.8	17.4			G1/1800
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	173.2	3.1	B1/500		
BM (30°-60°)	208.3	3.8	B0/220		
BH (60°-80°)	51.6	0.9	B0/110		G0/110
BVH (80°-90°)	0.7	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°	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4
2.5°	1660.6	1639.8	1636.7	1632.6	1592.8	1563.0	1519.9	1472.6	1419.5	1365.4
5°	1918.5	1902.1	1899.0	1879.8	1834.6	1783.9	1707.2	1610.3	1511.3	1394.9
7.5°	1968.5	1965.4	1979.5	1978.8	1972.6	1932.6	1867.8	1752.4	1603.8	1431.2
10°	1745.6	1753.5	1795.2	1831.9	1930.9	1988.4	1974.3	1879.1	1699.0	1472.6
12.5°	1542.5	1533.2	1563.0	1604.5	1719.5	1890.8	2018.5	1985.0	1807.9	1519.5
15°	1415.1	1411.3	1428.1	1447.3	1535.0	1707.6	1967.2	2070.9	1912.7	1575.0
17.5°	1374.3	1371.3	1376.4	1381.2	1438.0	1571.6	1844.9	2123.7	2013.0	1638.4
20°	1407.6	1403.4	1402.8	1399.0	1422.6	1513.7	1734.3	2127.4	2103.1	1695.9
22.5°	1504.5	1499.7	1482.9	1467.8	1469.9	1521.6	1685.0	2089.8	2170.9	1749.7
25°	1680.2	1672.3	1637.4	1586.7	1554.5	1576.4	1692.5	2040.1	2235.7	1791.8
27.5°	1900.0	1889.8	1844.9	1769.5	1695.9	1669.2	1746.9	2005.9	2289.4	1824.0
30°	2115.4	2102.1	2057.9	1999.3	1891.8	1807.6	1845.2	2020.9	2353.5	1857.6
32.5°	2348.0	2335.3	2276.7	2204.1	2115.1	2001.7	1979.8	2094.6	2431.9	1904.5
35°	2642.2	2622.3	2539.1	2440.1	2345.6	2230.9	2162.0	2221.6	2536.3	1976.1
37.5°	2977.1	2950.4	2860.7	2724.0	2600.7	2472.3	2383.9	2396.3	2689.4	2072.0
40°	3292.9	3268.5	3185.7	3056.9	2902.1	2746.3	2652.1	2624.7	2900.7	2188.7
42.5°	3482.2	3460.3	3425.4	3370.9	3240.5	3081.6	2962.7	2903.5	3150.7	2328.5
45°	3492.9	3473.7	3520.6	3584.0	3558.3	3452.5	3307.6	3199.0	3401.8	2459.6
47.5°	3323.0	3310.0	3452.5	3673.7	3784.0	3828.5	3694.9	3469.9	3609.0	2553.8
50°	2860.0	2855.2	3148.3	3554.5	3869.9	4157.9	4103.5	3722.0	3769.6	2602.4
52.5°	2479.8	2462.4	2633.3	3173.0	3744.9	4331.2	4502.8	3969.2	3881.9	2611.7
55°	1880.9	1865.4	2079.8	2534.6	3341.8	4269.6	4794.9	4224.4	3962.4	2588.1
57.5°	1008.9	999.3	1270.2	1687.0	2612.4	3899.7	4847.7	4494.2	4030.2	2525.4
60°	392.8	391.1	492.5	818.5	1587.7	3172.7	4581.6	4656.2	4072.7	2448.3
62.5°	237.7	242.8	259.3	367.5	701.4	1970.9	3968.2	4472.0	4101.1	2377.8
65°	196.6	196.9	199.0	252.4	336.0	824.7	2987.4	3865.8	4030.9	2252.1
67.5°	168.5	171.6	179.5	200.3	237.0	361.6	1719.9	2994.6	3603.8	1959.6
70°	132.9	137.0	146.9	164.7	182.9	226.4	635.6	1992.5	2753.1	1477.1
72.5°	112.0	111.6	116.8	133.9	145.2	159.2	244.5	1116.5	1600.0	705.1
75°	86.6	90.1	96.6	112.0	118.8	115.4	132.5	407.9	573.3	213.7
77.5°	67.8	70.5	76.4	91.4	98.3	81.9	76.4	145.9	184.2	76.7
80°	30.5	32.9	52.1	67.5	80.1	56.5	41.4	74.7	81.9	34.9
82.5°	5.5	9.2	30.5	35.6	41.1	36.6	21.6	38.7	40.1	14.0
85°	0.3	0.7	10.6	13.0	16.4	12.0	6.5	15.4	13.4	4.8
87.5°	0.0	0.0	0.0	0.3	0.3	1.7	2.1	2.7	2.1	1.7
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°
1338.4	0°	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4	1338.4
1341.5	2.5°	1316.8	1268.2	1220.9	1182.2	1159.6	1121.3	1095.9	1091.8	1081.2	1090.4
1344.9	5°	1291.5	1204.5	1116.5	1037.7	973.0	889.4	827.1	800.7	777.8	785.6
1353.8	7.5°	1279.5	1142.1	1005.2	870.6	732.2	598.6	499.3	457.9	426.4	430.8
1363.7	10°	1263.4	1077.4	862.7	657.2	471.9	340.1	271.6	246.2	232.2	232.5
1378.4	12.5°	1251.0	1000.0	697.3	445.6	287.3	217.1	195.9	189.7	185.6	186.0
1400.7	15°	1244.9	908.9	533.9	296.9	205.5	183.9	178.8	176.0	173.3	172.9
1425.4	17.5°	1234.6	807.5	390.8	216.8	179.8	172.3	167.8	164.7	161.3	160.6
1446.6	20°	1219.2	692.5	285.6	183.2	168.5	162.7	156.5	152.4	148.3	147.6
1460.0	22.5°	1190.8	570.9	219.5	169.5	160.3	153.8	146.2	141.4	137.3	136.6
1453.4	25°	1138.0	456.9	184.9	161.0	153.1	145.2	137.0	130.5	126.7	126.0
1439.4	27.5°	1071.2	358.9	167.8	153.1	143.8	136.6	127.4	121.2	117.8	117.1
1420.9	30°	992.5	276.4	157.9	144.2	132.9	126.7	118.5	113.4	111.3	111.3
1407.9	32.5°	907.5	220.9	153.8	135.3	123.3	116.4	109.9	107.9	107.2	106.9
1415.1	35°	827.8	191.8	151.7	128.1	114.7	108.2	105.5	105.8	107.2	107.2
1437.4	37.5°	756.9	182.5	150.7	122.9	107.2	101.4	103.1	106.2	104.8	104.8
1476.4	40°	692.8	183.6	150.0	119.2	101.0	97.6	101.0	98.6	95.2	94.9
1524.0	42.5°	643.8	192.1	148.6	116.1	97.3	94.9	93.5	89.7	89.4	90.1
1573.3	45°	608.2	199.7	148.3	114.7	93.2	88.7	87.0	83.2	90.1	91.8
1593.5	47.5°	566.1	199.7	148.3	109.9	86.3	84.6	81.9	77.7	84.6	86.3
1574.3	50°	511.7	187.0	142.5	104.5	80.8	79.8	75.0	69.9	68.5	69.5
1529.5	52.5°	442.8	164.0	127.7	96.9	75.3	73.3	67.5	63.7	62.7	62.7
1449.0	55°	364.4	137.3	107.9	86.0	69.5	65.8	61.6	59.9	58.9	58.2
1336.3	57.5°	296.2	112.7	86.6	76.4	64.0	59.2	57.9	55.8	54.1	53.1
1242.1	60°	243.2	88.7	71.6	67.8	58.6	54.1	53.8	51.0	46.6	45.9
1164.4	62.5°	187.7	65.1	60.3	58.9	53.1	49.3	48.6	43.2	36.3	34.9
1054.1	65°	132.5	50.7	48.6	51.7	47.3	43.8	42.1	33.9	26.7	25.7
882.2	67.5°	93.2	42.5	38.4	45.2	41.1	36.6	35.6	28.8	22.3	21.6
667.1	70°	66.4	34.6	31.5	38.7	32.9	32.2	30.1	24.0	18.2	17.5
330.1	72.5°	46.9	26.4	24.3	33.6	22.6	27.7	24.7	18.5	13.7	13.0
112.3	75°	34.6	18.8	17.1	19.5	16.4	20.9	17.5	12.3	8.6	8.2
50.7	77.5°	25.3	12.0	10.3	9.6	9.6	13.0	9.6	5.1	3.8	3.4
25.7	80°	17.8	5.5	4.8	4.1	3.8	3.1	1.4	0.7	0.3	0.3
8.9	82.5°	10.6	2.4	2.4	1.7	1.0	0.0	0.0	0.0	0.0	0.0
3.4	85°	2.4	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.4	87.5°	0.3	0.3	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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