

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: P946155

Luminaire Tested: **GALN-SB1D-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946155  
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-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

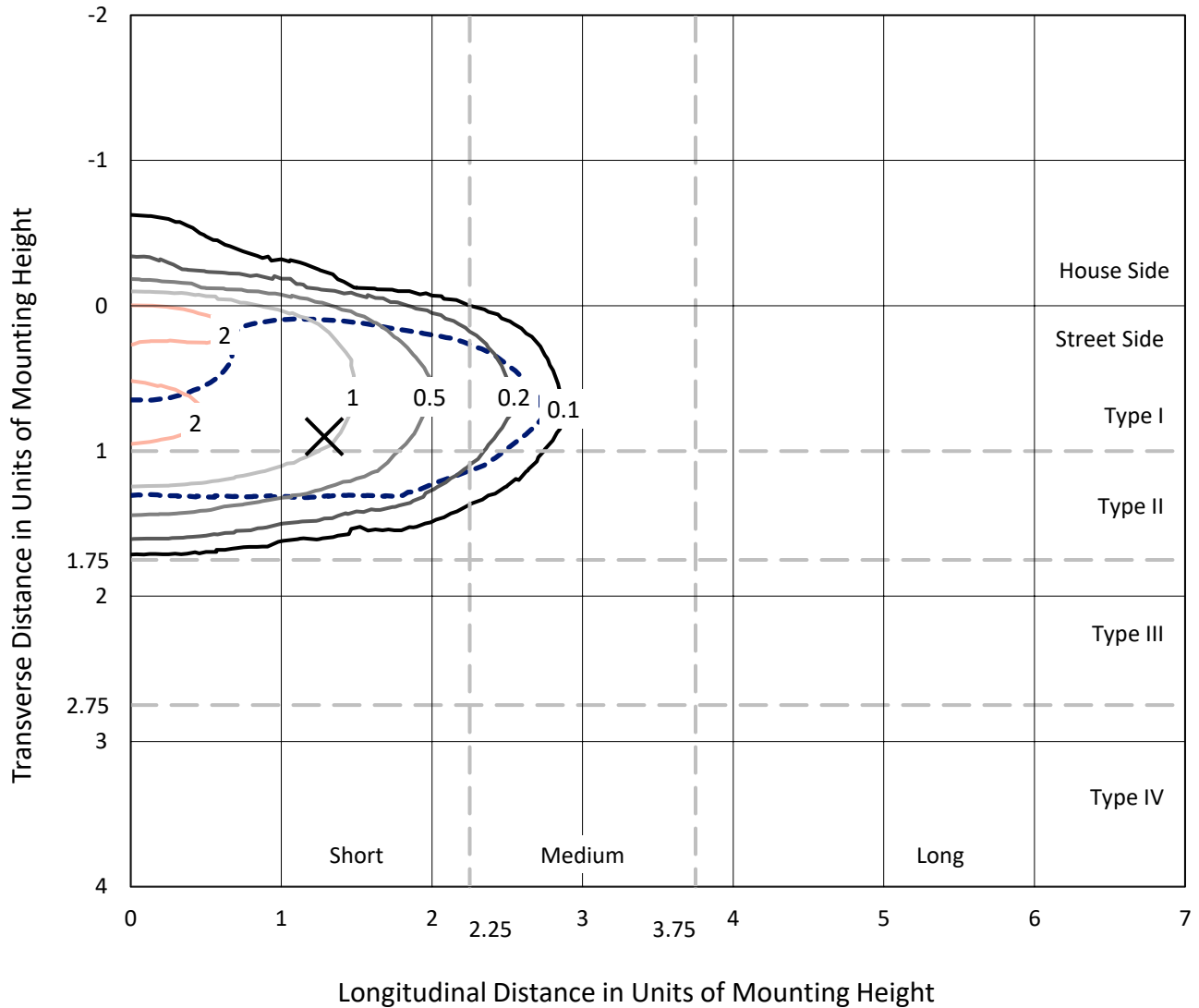
Lumens per Lamp: N/A  
Luminaire Lumens: 5283 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

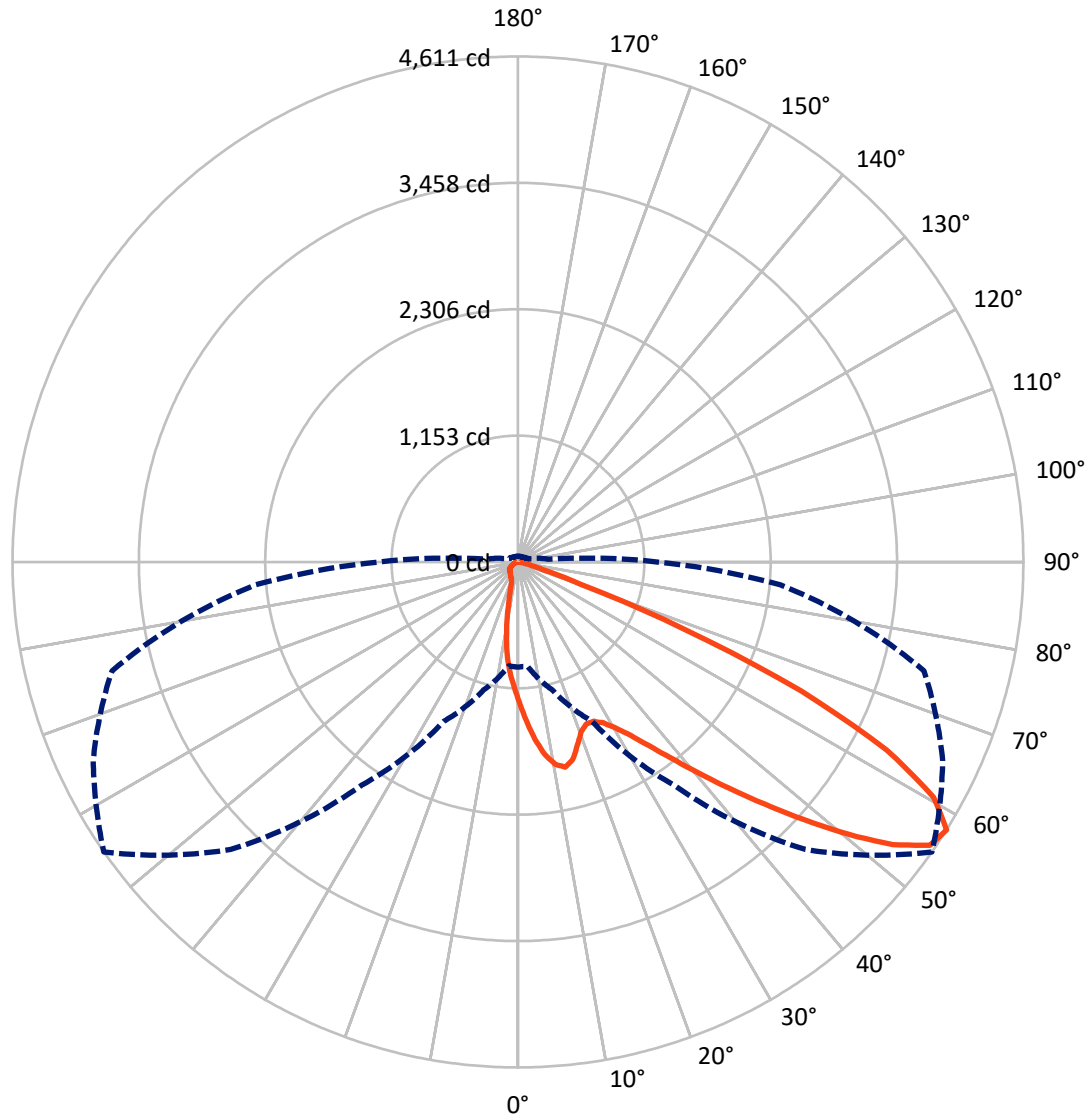
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P946155  
CATALOG NUMBER: GALN-SB1D-927-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	412.6	0.0	412.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	4870.4	0.0	4870.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	5283.0	0.0	5283.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	2.2
10°-20°	286.1	5.4
20°-30°	457.8	8.7
30°-40°	774.8	14.7
40°-50°	1272.1	24.1
50°-60°	1398.2	26.5
60°-70°	802.0	15.2
70°-80°	163.9	3.1
80°-90°	9.7	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°	5283.0	100.0
0°-180°	5283.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P946155

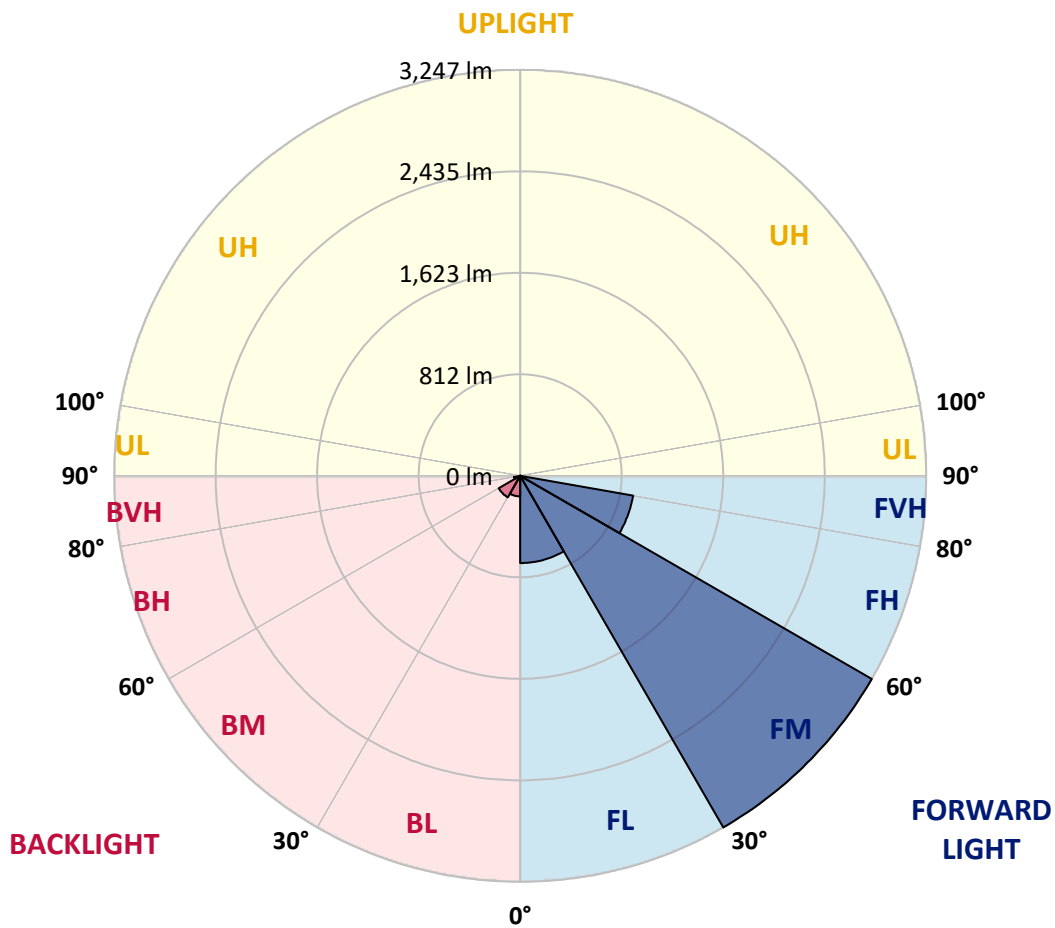
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.7	13.2			
FM (30°-60°)	3247.0	61.5			
FH (60°-80°)	916.8	17.4			G1/1800
FVH (80°-90°)	9.0	0.2			G0/10
BL (0°-30°)	164.7	3.1	B1/500		
BM (30°-60°)	198.1	3.8	B0/220		
BH (60°-80°)	49.1	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



REPORT NUMBER: P946155  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1
2.5°	1579.6	1559.7	1556.8	1552.9	1515.1	1486.8	1445.7	1400.8	1350.3	1298.8
5°	1824.9	1809.3	1806.3	1788.1	1745.1	1696.9	1623.9	1531.7	1437.6	1326.8
7.5°	1872.5	1869.5	1882.9	1882.2	1876.4	1838.3	1776.7	1666.9	1525.5	1361.4
10°	1660.4	1667.9	1707.6	1742.5	1836.6	1891.4	1878.0	1787.4	1616.1	1400.8
12.5°	1467.2	1458.4	1486.8	1526.2	1635.6	1798.5	1920.0	1888.1	1719.7	1445.4
15°	1346.0	1342.5	1358.4	1376.7	1460.1	1624.2	1871.2	1969.9	1819.4	1498.2
17.5°	1307.3	1304.3	1309.2	1313.8	1367.9	1494.9	1754.9	2020.0	1914.8	1558.4
20°	1338.9	1335.0	1334.3	1330.7	1353.2	1439.9	1649.7	2023.6	2000.5	1613.2
22.5°	1431.1	1426.5	1410.5	1396.2	1398.2	1447.4	1602.7	1987.8	2065.0	1664.3
25°	1598.2	1590.7	1557.5	1509.2	1478.6	1499.5	1609.9	1940.6	2126.6	1704.4
27.5°	1807.3	1797.5	1754.9	1683.2	1613.2	1587.8	1661.7	1908.0	2177.7	1735.0
30°	2012.2	1999.5	1957.5	1901.8	1799.5	1719.4	1755.2	1922.3	2238.6	1766.9
32.5°	2233.4	2221.4	2165.7	2096.6	2011.9	1904.1	1883.2	1992.4	2313.2	1811.6
35°	2513.2	2494.3	2415.2	2321.0	2231.1	2122.0	2056.5	2113.2	2412.6	1879.6
37.5°	2831.8	2806.4	2721.1	2591.1	2473.8	2351.7	2267.6	2279.3	2558.2	1970.9
40°	3132.2	3109.1	3030.2	2907.7	2760.5	2612.3	2522.7	2496.6	2759.2	2081.9
42.5°	3312.3	3291.5	3258.3	3206.5	3082.3	2931.2	2818.2	2761.8	2997.0	2214.8
45°	3322.4	3304.2	3348.8	3409.1	3384.7	3284.0	3146.2	3042.9	3235.8	2339.6
47.5°	3160.9	3148.5	3284.0	3494.4	3599.3	3641.7	3514.6	3300.6	3432.9	2429.2
50°	2720.4	2715.9	2994.7	3381.1	3681.1	3955.1	3903.3	3540.4	3585.6	2475.5
52.5°	2358.8	2342.2	2504.8	3018.2	3562.2	4119.9	4283.1	3775.6	3692.5	2484.3
55°	1789.1	1774.4	1978.3	2411.0	3178.8	4061.3	4561.0	4018.3	3769.1	2461.8
57.5°	959.7	950.6	1208.2	1604.7	2484.9	3709.4	4611.1	4275.0	3833.6	2402.2
60°	373.6	372.0	468.4	778.6	1510.2	3017.8	4358.0	4429.0	3873.9	2328.9
62.5°	226.1	231.0	246.6	349.5	667.2	1874.8	3774.6	4253.8	3901.0	2261.8
65°	187.0	187.3	189.3	240.1	319.6	784.4	2841.6	3677.2	3834.2	2142.2
67.5°	160.3	163.2	170.7	190.6	225.4	344.0	1636.0	2848.5	3428.0	1864.0
70°	126.4	130.3	139.8	156.7	174.0	215.3	604.6	1895.3	2618.8	1405.0
72.5°	106.5	106.2	111.1	127.4	138.1	151.5	232.6	1062.0	1522.0	670.7
75°	82.4	85.7	91.9	106.5	113.0	109.8	126.1	388.0	545.3	203.3
77.5°	64.5	67.1	72.6	87.0	93.5	77.9	72.6	138.8	175.3	73.0
80°	29.0	31.3	49.5	64.2	76.2	53.8	39.4	71.0	77.9	33.2
82.5°	5.2	8.8	29.0	33.9	39.1	34.9	20.5	36.8	38.1	13.4
85°	0.3	0.7	10.1	12.4	15.6	11.4	6.2	14.7	12.7	4.6
87.5°	0.0	0.0	0.0	0.3	0.3	1.6	2.0	2.6	2.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946155  
 CATALOG NUMBER: GALN-SB1D-927-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1273.1	0°	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1
1276.0	2.5°	1252.5	1206.3	1161.3	1124.5	1103.0	1066.5	1042.4	1038.5	1028.4	1037.2
1279.3	5°	1228.4	1145.7	1062.0	987.1	925.5	846.0	786.7	761.6	739.8	747.3
1287.7	7.5°	1217.0	1086.4	956.1	828.1	696.5	569.4	475.0	435.5	405.6	409.8
1297.2	10°	1201.7	1024.8	820.6	625.1	448.9	323.5	258.3	234.2	220.9	221.2
1311.2	12.5°	1190.0	951.2	663.2	423.8	273.3	206.5	186.3	180.5	176.6	176.9
1332.4	15°	1184.1	864.6	507.9	282.4	195.5	174.9	170.0	167.4	164.8	164.5
1355.8	17.5°	1174.4	768.1	371.7	206.2	171.0	163.9	159.6	156.7	153.4	152.8
1376.0	20°	1159.7	658.7	271.7	174.3	160.3	154.7	148.9	145.0	141.1	140.4
1388.7	22.5°	1132.7	543.0	208.8	161.3	152.5	146.3	139.1	134.5	130.6	130.0
1382.5	25°	1082.5	434.6	175.9	153.1	145.6	138.1	130.3	124.1	120.5	119.9
1369.2	27.5°	1019.0	341.4	159.6	145.6	136.8	130.0	121.2	115.3	112.1	111.4
1351.6	30°	944.1	262.9	150.2	137.1	126.4	120.5	112.7	107.8	105.9	105.9
1339.2	32.5°	863.3	210.1	146.3	128.7	117.3	110.8	104.6	102.6	102.0	101.6
1346.0	35°	787.4	182.4	144.3	121.8	109.1	102.9	100.3	100.7	102.0	102.0
1367.2	37.5°	719.9	173.6	143.3	116.9	102.0	96.4	98.1	101.0	99.7	99.7
1404.4	40°	659.0	174.6	142.7	113.4	96.1	92.8	96.1	93.8	90.6	90.2
1449.6	42.5°	612.4	182.8	141.4	110.4	92.5	90.2	88.9	85.3	85.0	85.7
1496.5	45°	578.6	189.9	141.1	109.1	88.6	84.4	82.7	79.2	85.7	87.3
1515.8	47.5°	538.5	189.9	141.1	104.6	82.1	80.5	77.9	73.9	80.5	82.1
1497.5	50°	486.7	177.9	135.5	99.4	76.9	75.9	71.3	66.5	65.2	66.1
1454.8	52.5°	421.2	156.0	121.5	92.2	71.7	69.7	64.2	60.6	59.6	59.6
1378.3	55°	346.6	130.6	102.6	81.8	66.1	62.5	58.6	57.0	56.0	55.4
1271.1	57.5°	281.8	107.2	82.4	72.6	60.9	56.4	55.1	53.1	51.5	50.5
1181.5	60°	231.3	84.4	68.1	64.5	55.7	51.5	51.1	48.5	44.3	43.7
1107.6	62.5°	178.5	61.9	57.3	56.0	50.5	46.9	46.3	41.0	34.5	33.2
1002.7	65°	126.1	48.2	46.3	49.2	45.0	41.7	40.1	32.3	25.4	24.4
839.2	67.5°	88.6	40.4	36.5	43.0	39.1	34.9	33.9	27.4	21.2	20.5
634.6	70°	63.2	32.9	30.0	36.8	31.3	30.6	28.7	22.8	17.3	16.6
314.0	72.5°	44.6	25.1	23.1	31.9	21.5	26.4	23.5	17.6	13.0	12.4
106.8	75°	32.9	17.9	16.3	18.6	15.6	19.9	16.6	11.7	8.1	7.8
48.2	77.5°	24.1	11.4	9.8	9.1	9.1	12.4	9.1	4.9	3.6	3.3
24.4	80°	16.9	5.2	4.6	3.9	3.6	2.9	1.3	0.7	0.3	0.3
8.5	82.5°	10.1	2.3	2.3	1.6	1.0	0.0	0.0	0.0	0.0	0.0
3.3	85°	2.3	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.3	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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