

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: P945798

Luminaire Tested: **GALN-SB1C-927-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945798  
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-927-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

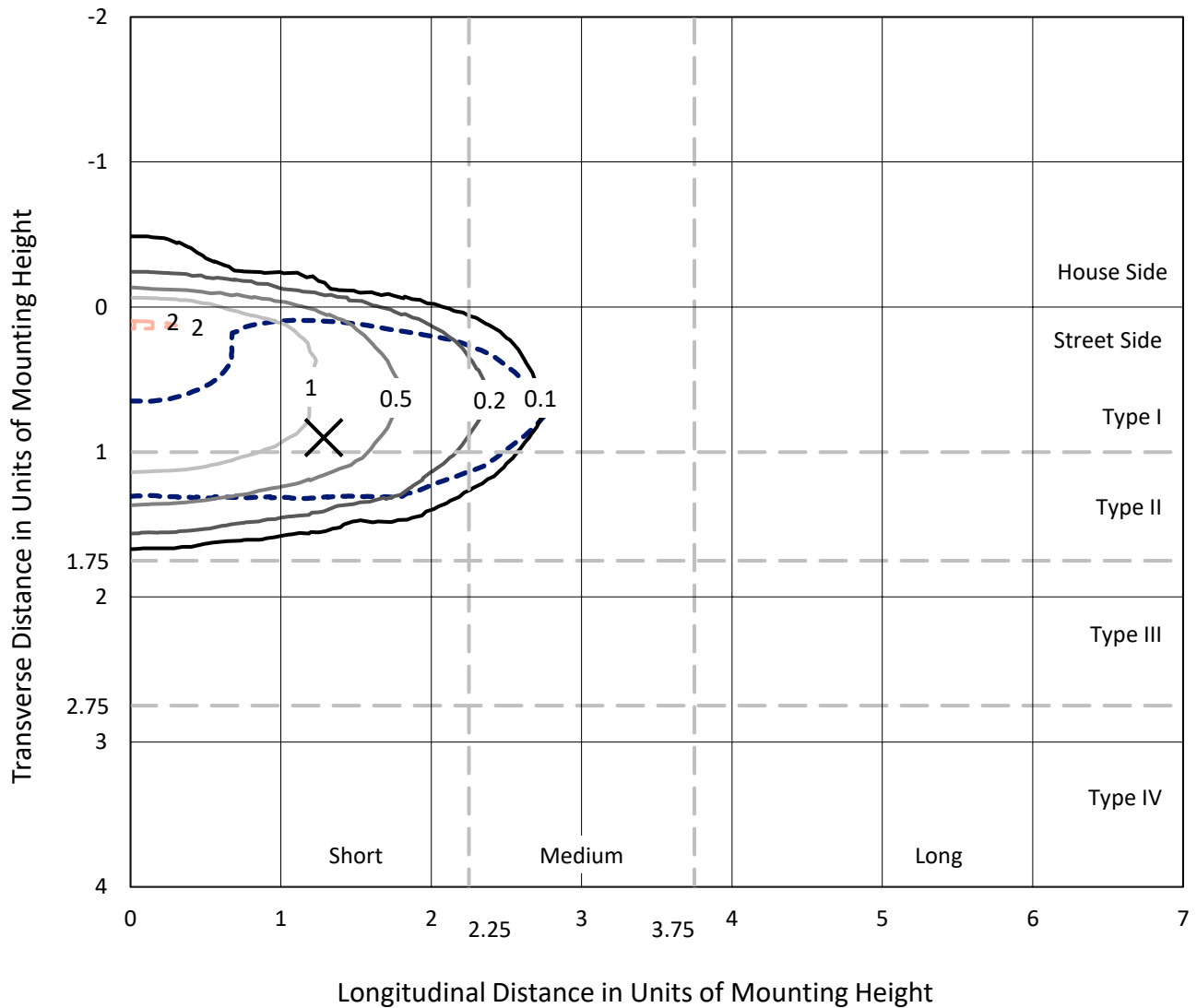
Lumens per Lamp: N/A  
Luminaire Lumens: 3888 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

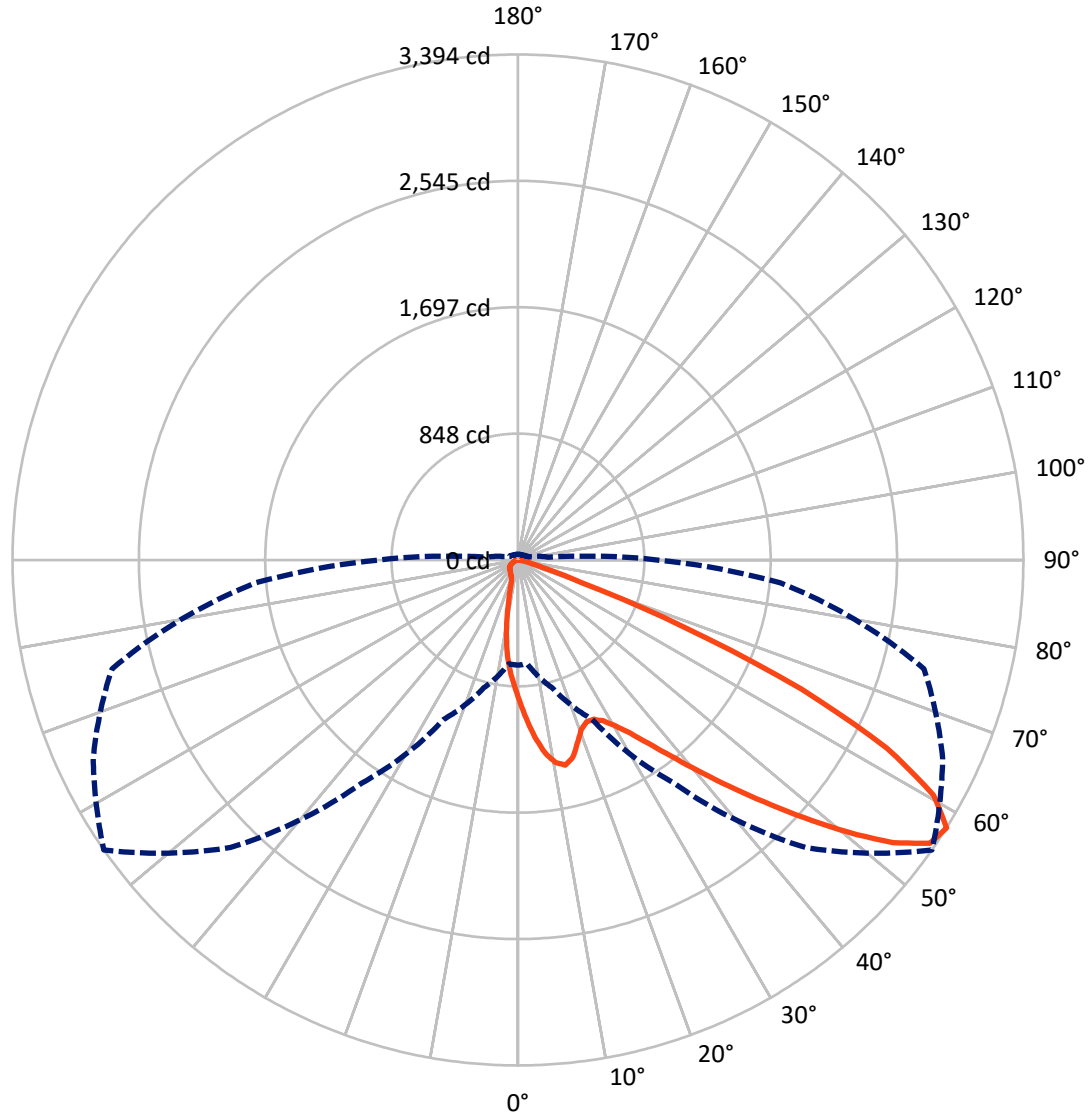
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P945798  
CATALOG NUMBER: GALN-SB1C-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	303.6	0.0	303.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	3584.4	0.0	3584.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	3888.0	0.0	3888.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	2.2
10°-20°	210.6	5.4
20°-30°	336.9	8.7
30°-40°	570.2	14.7
40°-50°	936.2	24.1
50°-60°	1029.0	26.5
60°-70°	590.2	15.2
70°-80°	120.6	3.1
80°-90°	7.1	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°	3888.0	100.0
0°-180°	3888.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945798

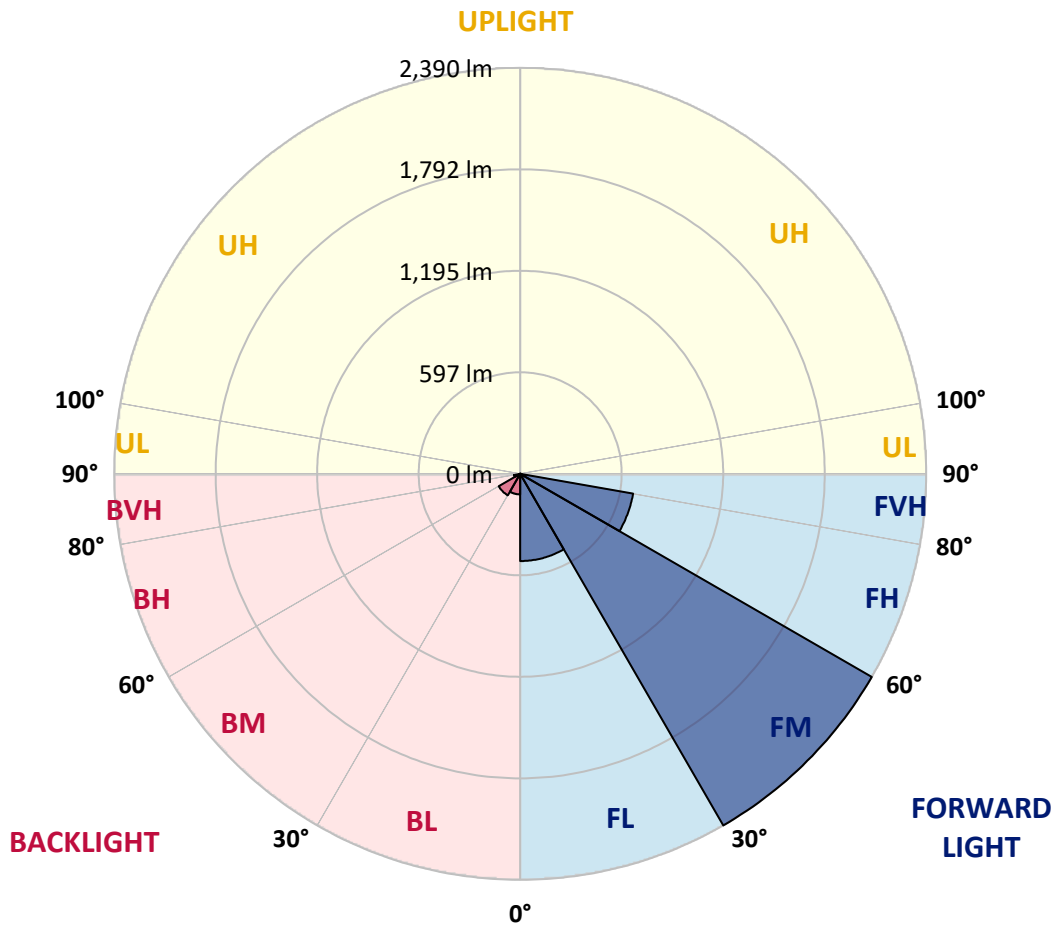
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.4	13.2			
FM (30°-60°)	2389.6	61.5			
FH (60°-80°)	674.7	17.4			G1/1800
FVH (80°-90°)	6.6	0.2			G0/10
BL (0°-30°)	121.2	3.1	B1/500		
BM (30°-60°)	145.8	3.8	B0/220		
BH (60°-80°)	36.1	0.9	B0/110		G0/110
BVH (80°-90°)	0.5	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: P945798

CATALOG NUMBER: GALN-SB1C-927-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9
2.5°	1162.5	1147.9	1145.7	1142.9	1115.0	1094.2	1064.0	1030.9	993.7	955.9
5°	1343.0	1331.5	1329.4	1315.9	1284.3	1248.8	1195.1	1127.3	1058.0	976.5
7.5°	1378.0	1375.9	1385.7	1385.2	1380.9	1352.9	1307.6	1226.8	1122.7	1001.9
10°	1222.0	1227.5	1256.7	1282.4	1351.7	1391.9	1382.1	1315.5	1189.4	1030.9
12.5°	1079.8	1073.3	1094.2	1123.2	1203.7	1323.6	1413.0	1389.5	1265.6	1063.7
15°	990.6	988.0	999.7	1013.2	1074.5	1195.4	1377.1	1449.7	1339.0	1102.6
17.5°	962.1	959.9	963.5	966.9	1006.7	1100.2	1291.5	1486.6	1409.2	1146.9
20°	985.3	982.5	982.0	979.3	995.9	1059.7	1214.1	1489.3	1472.3	1187.2
22.5°	1053.2	1049.8	1038.1	1027.5	1029.0	1065.2	1179.5	1462.9	1519.7	1224.8
25°	1176.2	1170.7	1146.2	1110.7	1088.2	1103.5	1184.8	1428.1	1565.0	1254.3
27.5°	1330.1	1322.9	1291.5	1238.7	1187.2	1168.5	1222.9	1404.2	1602.7	1276.9
30°	1480.9	1471.5	1440.6	1399.6	1324.3	1265.4	1291.7	1414.7	1647.5	1300.4
32.5°	1643.7	1634.8	1593.8	1543.0	1480.6	1401.3	1385.9	1466.3	1702.4	1333.2
35°	1849.6	1835.7	1777.4	1708.2	1642.0	1561.7	1513.5	1555.2	1775.5	1383.3
37.5°	2084.1	2065.4	2002.6	1906.9	1820.6	1730.7	1668.8	1677.5	1882.7	1450.4
40°	2305.1	2288.1	2230.1	2139.9	2031.6	1922.5	1856.6	1837.4	2030.6	1532.2
42.5°	2437.7	2422.4	2397.9	2359.8	2268.4	2157.2	2074.0	2032.5	2205.6	1630.0
45°	2445.1	2431.7	2464.5	2508.9	2490.9	2416.8	2315.4	2239.4	2381.4	1721.8
47.5°	2326.2	2317.1	2416.8	2571.7	2648.9	2680.1	2586.6	2429.1	2526.4	1787.8
50°	2002.1	1998.7	2203.9	2488.3	2709.1	2910.7	2872.6	2605.5	2638.8	1821.8
52.5°	1736.0	1723.7	1843.4	2221.2	2621.6	3032.0	3152.1	2778.6	2717.5	1828.3
55°	1316.7	1305.9	1456.0	1774.3	2339.4	2988.9	3356.6	2957.2	2773.8	1811.7
57.5°	706.3	699.6	889.2	1181.0	1828.8	2729.9	3393.5	3146.1	2821.3	1767.9
60°	275.0	273.8	344.7	573.0	1111.4	2221.0	3207.3	3259.5	2851.0	1713.9
62.5°	166.4	170.0	181.5	257.2	491.0	1379.7	2777.9	3130.6	2870.9	1664.5
65°	137.6	137.9	139.3	176.7	235.2	577.3	2091.3	2706.2	2821.8	1576.5
67.5°	118.0	120.1	125.6	140.2	165.9	253.2	1204.0	2096.3	2522.8	1371.8
70°	93.0	95.9	102.8	115.3	128.0	158.5	445.0	1394.8	1927.3	1034.0
72.5°	78.4	78.2	81.8	93.7	101.7	111.5	171.2	781.6	1120.1	493.6
75°	60.7	63.1	67.6	78.4	83.2	80.8	92.8	285.5	401.3	149.6
77.5°	47.5	49.4	53.5	64.0	68.8	57.3	53.5	102.1	129.0	53.7
80°	21.3	23.0	36.4	47.2	56.1	39.6	29.0	52.3	57.3	24.5
82.5°	3.8	6.5	21.3	24.9	28.8	25.7	15.1	27.1	28.0	9.8
85°	0.2	0.5	7.4	9.1	11.5	8.4	4.6	10.8	9.3	3.4
87.5°	0.0	0.0	0.0	0.2	0.2	1.2	1.4	1.9	1.4	1.2
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°
936.9	0°	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9	936.9
939.1	2.5°	921.8	887.8	854.7	827.6	811.8	784.9	767.2	764.3	756.9	763.3
941.5	5°	904.1	843.2	781.6	726.4	681.1	622.6	579.0	560.5	544.5	550.0
947.7	7.5°	895.7	799.5	703.6	609.4	512.6	419.1	349.5	320.5	298.5	301.6
954.7	10°	884.4	754.2	603.9	460.1	330.4	238.1	190.1	172.4	162.5	162.8
965.0	12.5°	875.8	700.0	488.1	311.9	201.1	152.0	137.1	132.8	129.9	130.2
980.5	15°	871.5	636.3	373.8	207.9	143.8	128.7	125.1	123.2	121.3	121.1
997.8	17.5°	864.3	565.3	273.5	151.8	125.9	120.6	117.5	115.3	112.9	112.4
1012.7	20°	853.5	484.8	199.9	128.3	118.0	113.9	109.6	106.7	103.8	103.3
1022.0	22.5°	833.6	399.7	153.7	118.7	112.2	107.6	102.4	99.0	96.1	95.7
1017.5	25°	796.7	319.8	129.5	112.7	107.2	101.7	95.9	91.3	88.7	88.2
1007.6	27.5°	749.9	251.2	117.5	107.2	100.7	95.7	89.2	84.9	82.5	82.0
994.7	30°	694.8	193.5	110.5	100.9	93.0	88.7	83.0	79.4	77.9	77.9
985.6	32.5°	635.3	154.6	107.6	94.7	86.3	81.5	77.0	75.5	75.0	74.8
990.6	35°	579.5	134.3	106.2	89.7	80.3	75.8	73.8	74.1	75.0	75.0
1006.2	37.5°	529.8	127.8	105.5	86.1	75.0	71.0	72.2	74.3	73.4	73.4
1033.5	40°	485.0	128.5	105.0	83.4	70.7	68.3	70.7	69.0	66.6	66.4
1066.9	42.5°	450.7	134.5	104.0	81.3	68.1	66.4	65.4	62.8	62.6	63.1
1101.4	45°	425.8	139.8	103.8	80.3	65.2	62.1	60.9	58.3	63.1	64.3
1115.5	47.5°	396.3	139.8	103.8	77.0	60.4	59.2	57.3	54.4	59.2	60.4
1102.1	50°	358.2	130.9	99.7	73.1	56.6	55.9	52.5	48.9	47.9	48.7
1070.7	52.5°	310.0	114.8	89.4	67.8	52.7	51.3	47.2	44.6	43.9	43.9
1014.3	55°	255.1	96.1	75.5	60.2	48.7	46.0	43.2	42.0	41.2	40.8
935.5	57.5°	207.4	78.9	60.7	53.5	44.8	41.5	40.5	39.1	37.9	37.2
869.5	60°	170.2	62.1	50.1	47.5	41.0	37.9	37.6	35.7	32.6	32.1
815.1	62.5°	131.4	45.6	42.2	41.2	37.2	34.5	34.0	30.2	25.4	24.5
737.9	65°	92.8	35.5	34.0	36.2	33.1	30.7	29.5	23.7	18.7	18.0
617.6	67.5°	65.2	29.7	26.9	31.6	28.8	25.7	24.9	20.1	15.6	15.1
467.0	70°	46.5	24.2	22.1	27.1	23.0	22.5	21.1	16.8	12.7	12.2
231.1	72.5°	32.8	18.5	17.0	23.5	15.8	19.4	17.3	12.9	9.6	9.1
78.6	75°	24.2	13.2	12.0	13.7	11.5	14.6	12.2	8.6	6.0	5.8
35.5	77.5°	17.7	8.4	7.2	6.7	6.7	9.1	6.7	3.6	2.6	2.4
18.0	80°	12.5	3.8	3.4	2.9	2.6	2.2	1.0	0.5	0.2	0.2
6.2	82.5°	7.4	1.7	1.7	1.2	0.7	0.0	0.0	0.0	0.0	0.0
2.4	85°	1.7	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
1.0	87.5°	0.2	0.2	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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