

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: P945777

Luminaire Tested: **GALN-SB1C-850-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945777  
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-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

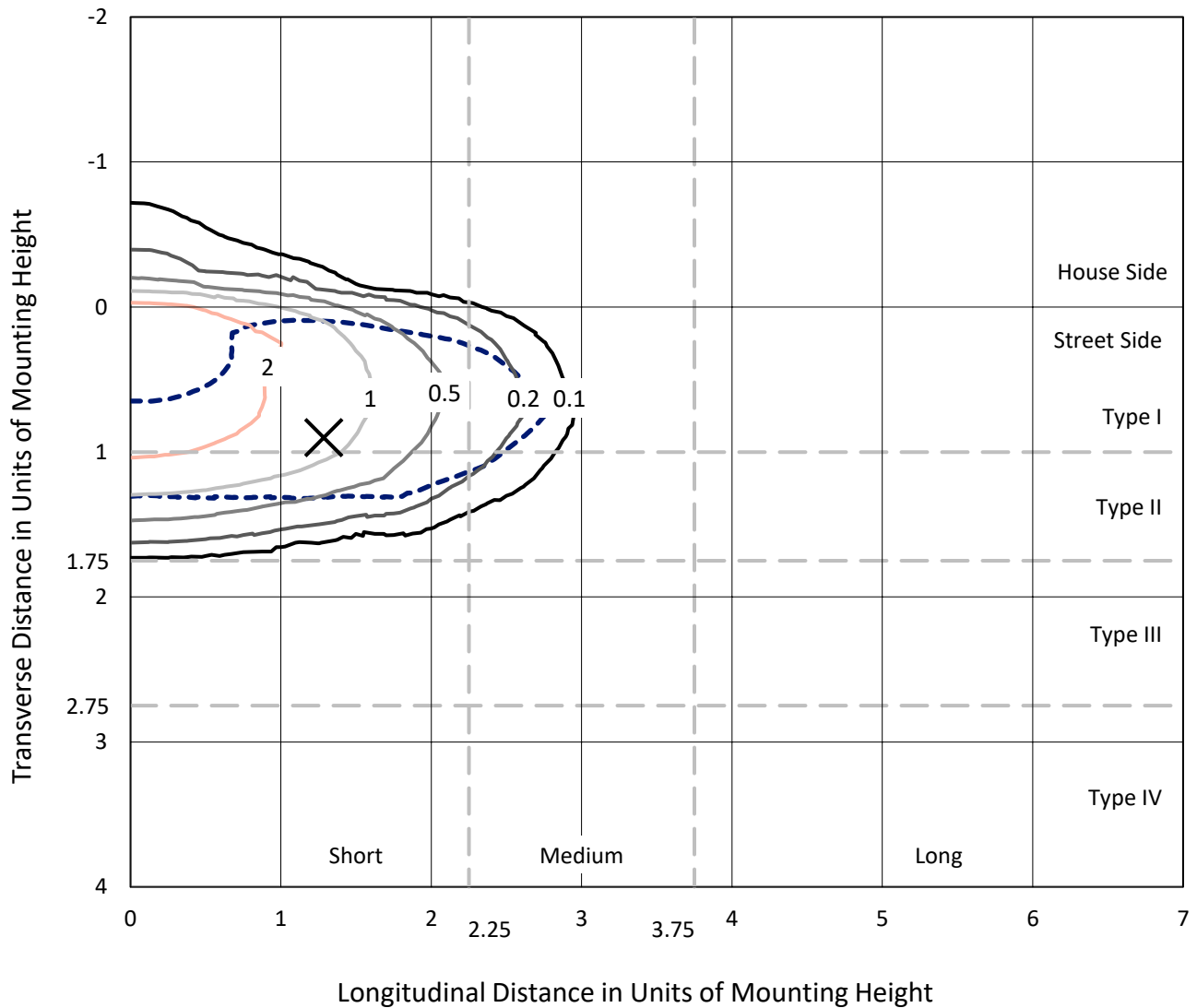
Lumens per Lamp: N/A  
Luminaire Lumens: 6110 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

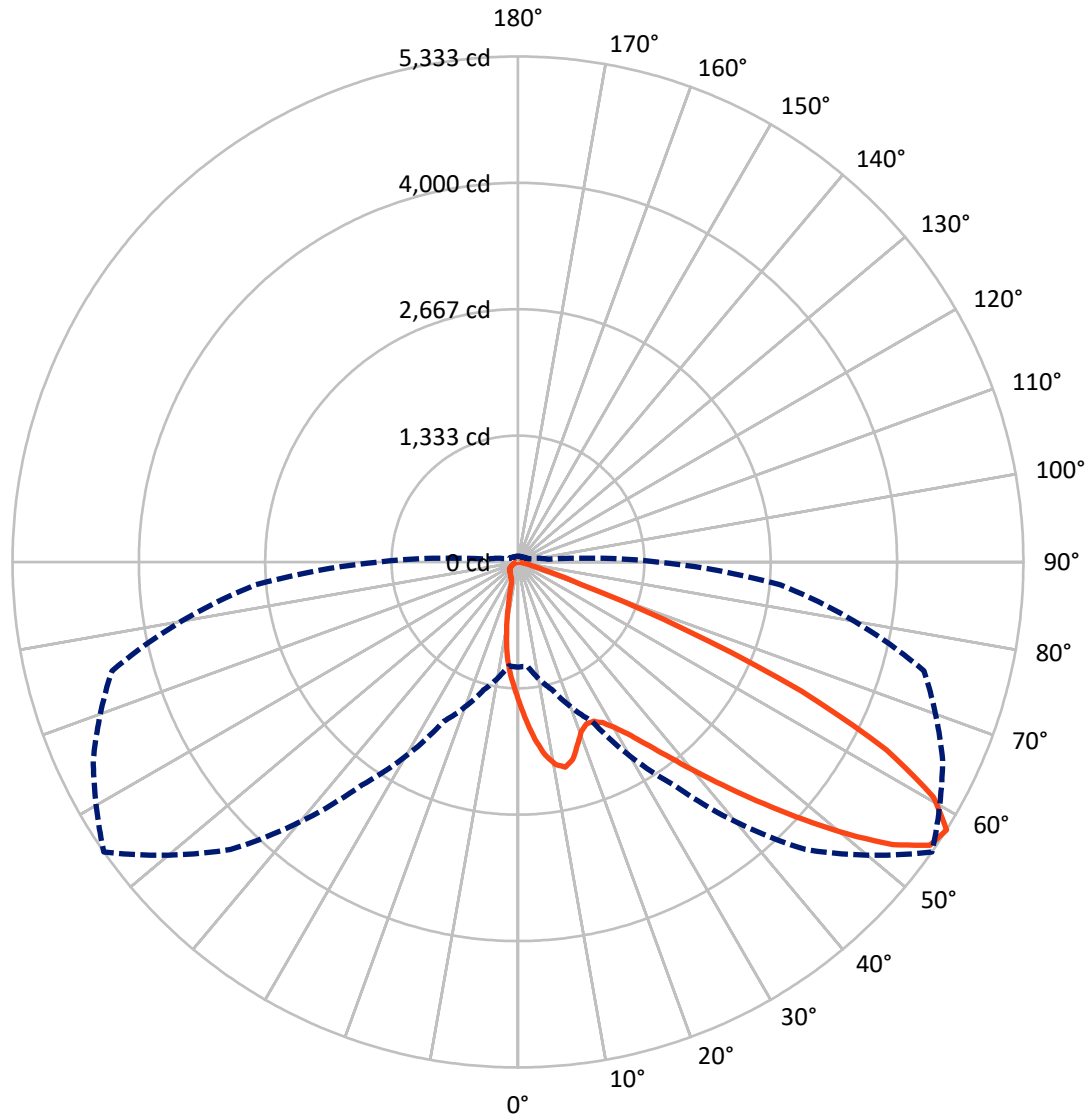
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	477.2	0.0	477.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	5632.8	0.0	5632.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	6110.0	0.0	6110.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	2.2
10°-20°	330.9	5.4
20°-30°	529.5	8.7
30°-40°	896.1	14.7
40°-50°	1471.3	24.1
50°-60°	1617.0	26.5
60°-70°	927.5	15.2
70°-80°	189.5	3.1
80°-90°	11.2	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°	6110.0	100.0
0°-180°	6110.0	100.0

**Coefficient of Utilization**



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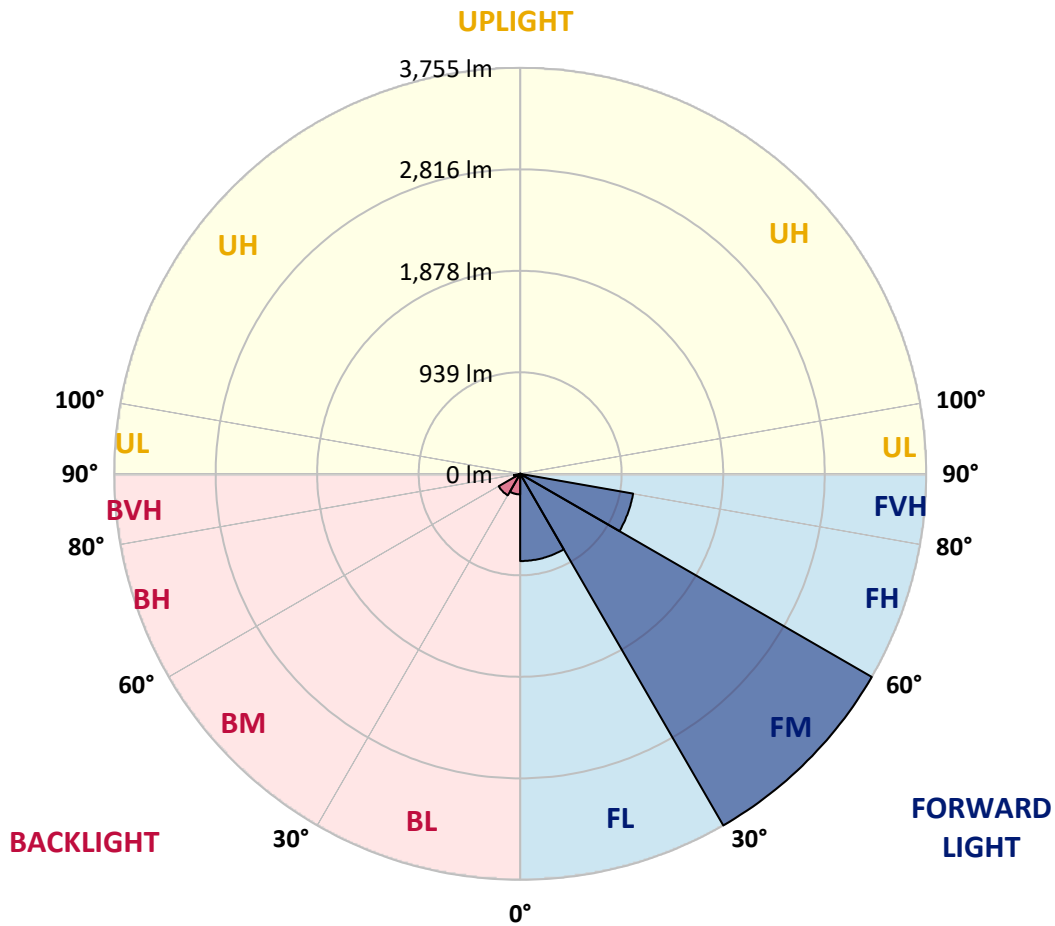
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	806.9	13.2			
FM (30°-60°)	3755.3	61.5			
FH (60°-80°)	1060.3	17.4			G1/1800
FVH (80°-90°)	10.4	0.2			G1/100
BL (0°-30°)	190.5	3.1	B1/500		
BM (30°-60°)	229.2	3.8	B1/1000		
BH (60°-80°)	56.7	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°	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4
2.5°	1826.9	1803.9	1800.5	1796.0	1752.3	1719.5	1672.0	1620.0	1561.7	1502.1
5°	2110.6	2092.5	2089.1	2068.0	2018.3	1962.5	1878.1	1771.5	1662.6	1534.5
7.5°	2165.6	2162.2	2177.6	2176.9	2170.1	2126.0	2054.8	1927.9	1764.3	1574.5
10°	1920.3	1929.0	1975.0	2015.3	2124.1	2187.4	2172.0	2067.3	1869.1	1620.0
12.5°	1696.9	1686.7	1719.5	1765.1	1891.7	2080.1	2220.6	2183.7	1988.9	1671.7
15°	1556.8	1552.6	1571.1	1592.2	1688.6	1878.5	2164.1	2278.2	2104.2	1732.7
17.5°	1511.9	1508.5	1514.2	1519.5	1582.0	1728.9	2029.6	2336.3	2214.6	1802.4
20°	1548.5	1543.9	1543.2	1539.0	1565.0	1665.3	1907.9	2340.4	2313.7	1865.7
22.5°	1655.1	1649.8	1631.4	1614.8	1617.0	1673.9	1853.6	2299.0	2388.3	1924.8
25°	1848.4	1839.7	1801.3	1745.5	1710.1	1734.2	1861.9	2244.3	2459.5	1971.2
27.5°	2090.2	2078.9	2029.6	1946.7	1865.7	1836.3	1921.8	2206.7	2518.6	2006.6
30°	2327.2	2312.5	2263.9	2199.5	2081.2	1988.5	2030.0	2223.2	2589.1	2043.5
32.5°	2583.0	2569.1	2504.7	2424.8	2326.8	2202.1	2178.0	2304.2	2675.3	2095.1
35°	2906.7	2884.8	2793.3	2684.4	2580.4	2454.2	2378.5	2444.0	2790.2	2173.9
37.5°	3275.1	3245.7	3147.0	2996.7	2861.1	2719.8	2622.6	2636.2	2958.7	2279.4
40°	3622.5	3595.8	3504.6	3362.9	3192.6	3021.2	2917.6	2887.5	3191.1	2407.8
42.5°	3830.8	3806.7	3768.3	3708.4	3564.9	3390.0	3259.3	3194.1	3466.1	2561.6
45°	3842.5	3821.4	3873.0	3942.7	3914.5	3798.1	3638.7	3519.3	3742.3	2705.9
47.5°	3655.7	3641.3	3798.1	4041.5	4162.8	4211.7	4064.8	3817.3	3970.2	2809.5
50°	3146.3	3141.0	3463.5	3910.3	4257.3	4574.2	4514.3	4094.6	4146.9	2863.0
52.5°	2728.1	2708.9	2896.9	3490.6	4119.8	4764.8	4953.6	4366.6	4270.5	2873.1
55°	2069.1	2052.2	2288.0	2788.4	3676.4	4697.0	5274.9	4647.3	4359.1	2847.1
57.5°	1109.9	1099.4	1397.4	1855.9	2873.9	4290.1	5333.0	4944.2	4433.7	2778.2
60°	432.1	430.3	541.8	900.4	1746.6	3490.3	5040.2	5122.4	4480.4	2693.4
62.5°	261.5	267.1	285.2	404.3	771.6	2168.2	4365.5	4919.7	4511.6	2615.8
65°	216.3	216.6	218.9	277.7	369.6	907.2	3286.4	4252.8	4434.4	2477.5
67.5°	185.4	188.8	197.4	220.4	260.7	397.9	1892.1	3294.3	3964.6	2155.8
70°	146.2	150.7	161.6	181.2	201.2	249.0	699.3	2192.0	3028.7	1624.9
72.5°	123.2	122.8	128.5	147.3	159.7	175.2	269.0	1228.2	1760.2	775.7
75°	95.3	99.1	106.2	123.2	130.7	127.0	145.8	448.7	630.7	235.1
77.5°	74.6	77.6	84.0	100.6	108.1	90.0	84.0	160.5	202.7	84.4
80°	33.5	36.2	57.3	74.2	88.2	62.2	45.6	82.1	90.0	38.4
82.5°	6.0	10.2	33.5	39.2	45.2	40.3	23.7	42.6	44.1	15.4
85°	0.4	0.8	11.7	14.3	18.1	13.2	7.2	17.0	14.7	5.3
87.5°	0.0	0.0	0.0	0.4	0.4	1.9	2.3	3.0	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°
1472.4	0°	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4	1472.4
1475.8	2.5°	1448.6	1395.1	1343.1	1300.6	1275.7	1233.5	1205.6	1201.1	1189.4	1199.6
1479.5	5°	1420.7	1325.0	1228.2	1141.6	1070.4	978.4	909.9	880.9	855.6	864.3
1489.3	7.5°	1407.6	1256.5	1105.8	957.7	805.5	658.6	549.3	503.7	469.1	474.0
1500.2	10°	1389.9	1185.3	949.0	723.0	519.2	374.1	298.8	270.9	255.4	255.8
1516.4	12.5°	1376.3	1100.1	767.1	490.2	316.1	238.9	215.5	208.7	204.2	204.6
1540.9	15°	1369.5	999.9	587.4	326.6	226.1	202.3	196.7	193.7	190.6	190.3
1568.1	17.5°	1358.2	888.4	429.9	238.5	197.8	189.5	184.6	181.2	177.5	176.7
1591.4	20°	1341.2	761.8	314.2	201.6	185.4	179.0	172.2	167.7	163.1	162.4
1606.1	22.5°	1310.0	628.1	241.5	186.5	176.3	169.2	160.9	155.6	151.1	150.3
1598.9	25°	1252.0	502.6	203.4	177.1	168.4	159.7	150.7	143.5	139.4	138.6
1583.5	27.5°	1178.5	394.8	184.6	168.4	158.2	150.3	140.2	133.4	129.6	128.9
1563.2	30°	1091.8	304.0	173.7	158.6	146.2	139.4	130.4	124.7	122.4	122.4
1548.8	32.5°	998.4	243.0	169.2	148.8	135.6	128.1	120.9	118.7	117.9	117.5
1556.8	35°	910.6	211.0	166.9	140.9	126.2	119.1	116.0	116.4	117.9	117.9
1581.2	37.5°	832.6	200.8	165.8	135.3	117.9	111.5	113.4	116.8	115.3	115.3
1624.2	40°	762.2	201.9	165.0	131.1	111.1	107.4	111.1	108.5	104.7	104.4
1676.6	42.5°	708.3	211.4	163.5	127.7	107.0	104.4	102.9	98.7	98.3	99.1
1730.8	45°	669.1	219.6	163.1	126.2	102.5	97.6	95.7	91.6	99.1	101.0
1753.0	47.5°	622.8	219.6	163.1	120.9	94.9	93.1	90.0	85.5	93.1	94.9
1731.9	50°	562.9	205.7	156.7	114.9	88.9	87.8	82.5	76.9	75.4	76.5
1682.6	52.5°	487.1	180.5	140.5	106.6	82.9	80.6	74.2	70.1	68.9	68.9
1594.1	55°	400.9	151.1	118.7	94.6	76.5	72.3	67.8	65.9	64.8	64.0
1470.1	57.5°	325.9	124.0	95.3	84.0	70.5	65.2	63.7	61.4	59.5	58.4
1366.5	60°	267.5	97.6	78.7	74.6	64.4	59.5	59.2	56.1	51.2	50.5
1281.0	62.5°	206.5	71.6	66.3	64.8	58.4	54.3	53.5	47.5	39.9	38.4
1159.7	65°	145.8	55.8	53.5	56.9	52.0	48.2	46.3	37.3	29.4	28.3
970.5	67.5°	102.5	46.7	42.2	49.7	45.2	40.3	39.2	31.6	24.5	23.7
733.9	70°	73.1	38.1	34.7	42.6	36.2	35.4	33.2	26.4	20.0	19.2
363.2	72.5°	51.6	29.0	26.7	36.9	24.9	30.5	27.1	20.3	15.1	14.3
123.6	75°	38.1	20.7	18.8	21.5	18.1	23.0	19.2	13.6	9.4	9.0
55.8	77.5°	27.9	13.2	11.3	10.5	10.5	14.3	10.5	5.7	4.1	3.8
28.3	80°	19.6	6.0	5.3	4.5	4.1	3.4	1.5	0.8	0.4	0.4
9.8	82.5°	11.7	2.6	2.6	1.9	1.1	0.0	0.0	0.0	0.0	0.0
3.8	85°	2.6	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.5	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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