

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: P945861

Luminaire Tested: **GALN-SB1C-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945861  
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-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

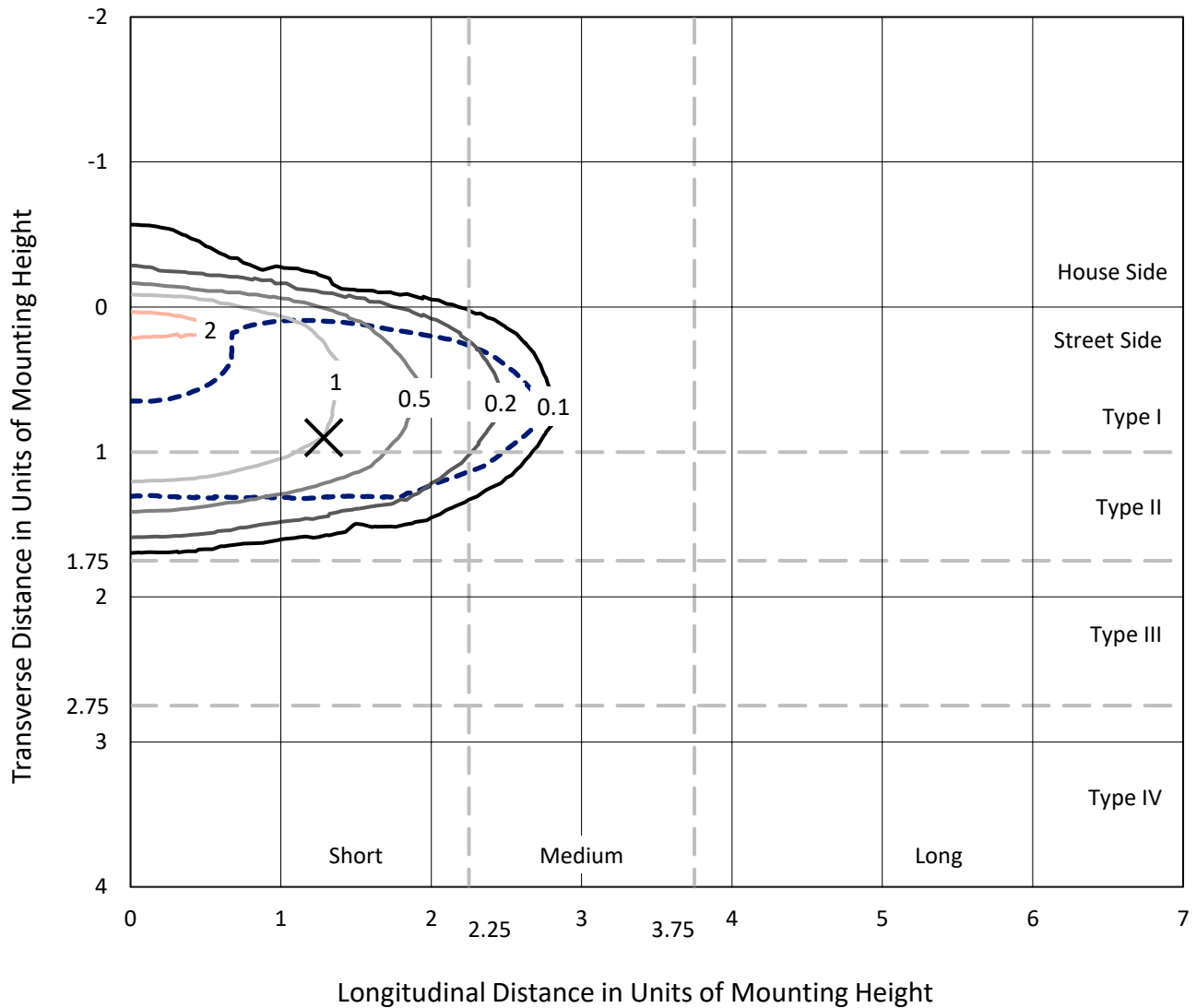
Lumens per Lamp: N/A  
Luminaire Lumens: 4629 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

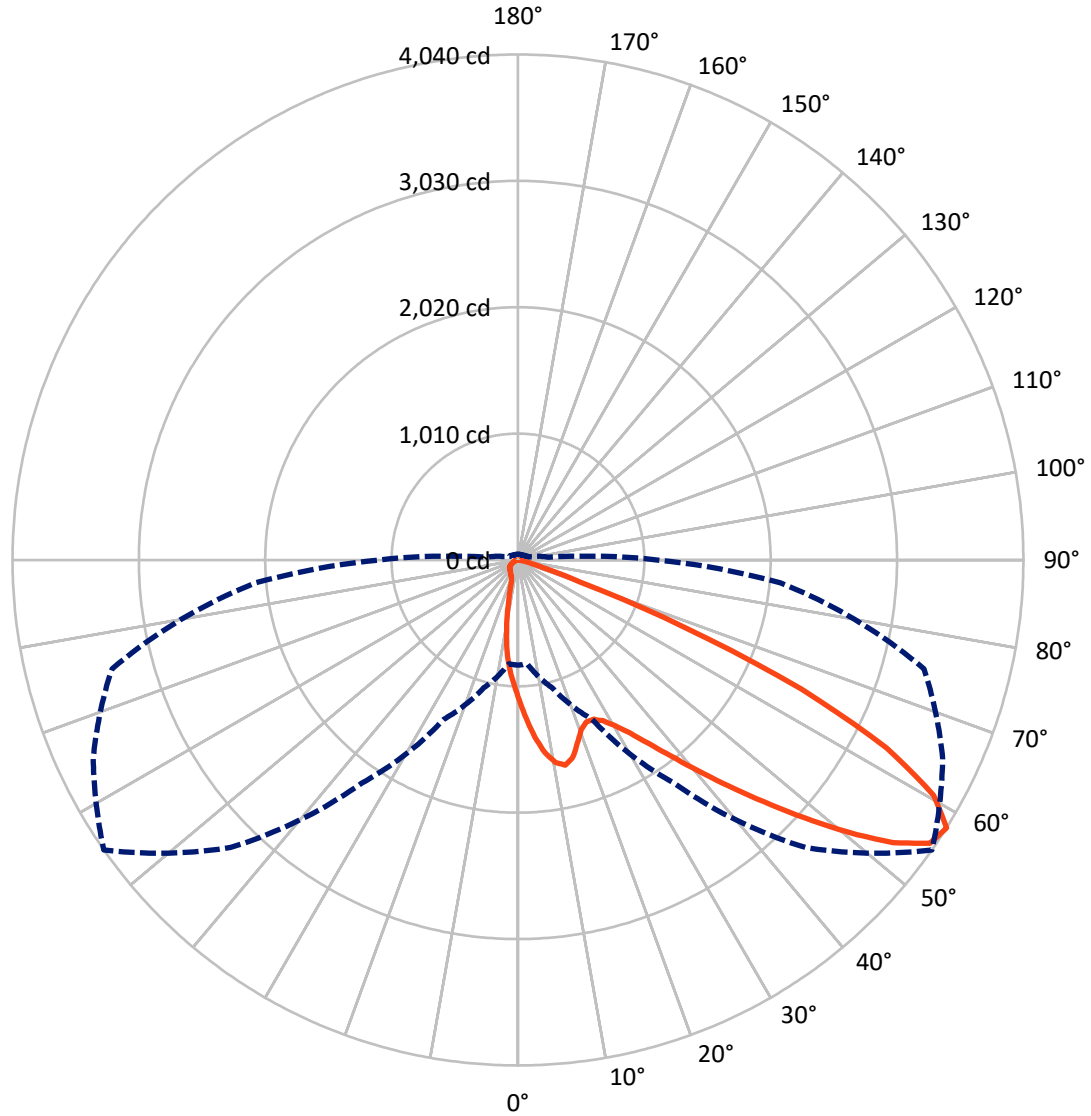
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	361.5	0.0	361.5
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	4267.5	0.0	4267.5
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	4629.0	0.0	4629.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.8	2.2
10°-20°	250.7	5.4
20°-30°	401.1	8.7
30°-40°	678.9	14.7
40°-50°	1114.6	24.1
50°-60°	1225.1	26.5
60°-70°	702.7	15.2
70°-80°	143.6	3.1
80°-90°	8.5	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°	4629.0	100.0
0°-180°	4629.0	100.0

**Coefficient of Utilization**



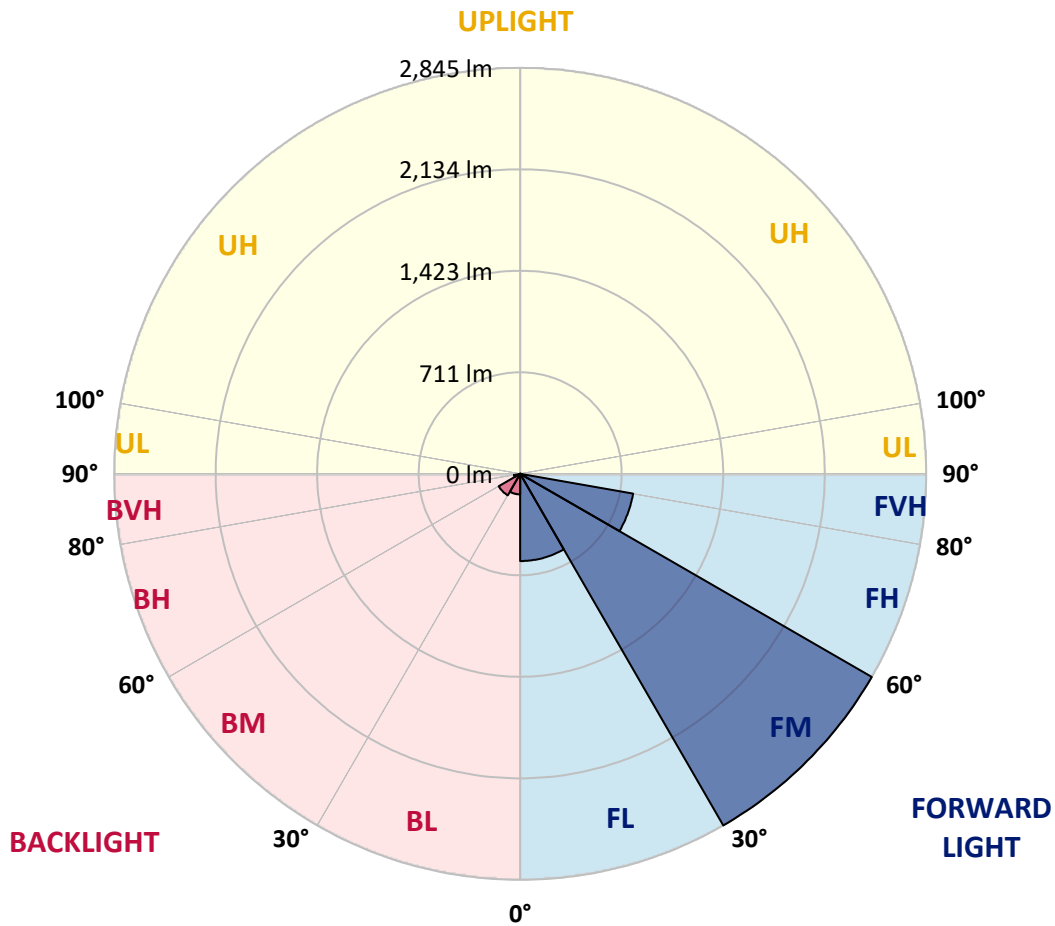
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.3	13.2			
FM (30°-60°)	2845.0	61.5			
FH (60°-80°)	803.3	17.4			G1/1800
FVH (80°-90°)	7.9	0.2			G0/10
BL (0°-30°)	144.3	3.1	B1/500		
BM (30°-60°)	173.6	3.8	B0/220		
BH (60°-80°)	43.0	0.9	B0/110		G0/110
BVH (80°-90°)	0.6	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°	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1384.1	1366.7	1364.1	1360.7	1327.6	1302.7	1266.8	1227.4	1183.1	1138.0
5°	1599.0	1585.3	1582.7	1566.7	1529.1	1486.8	1422.9	1342.1	1259.6	1162.6
7.5°	1640.7	1638.1	1649.8	1649.2	1644.1	1610.7	1556.8	1460.6	1336.7	1192.8
10°	1454.9	1461.4	1496.2	1526.8	1609.3	1657.2	1645.5	1566.2	1416.0	1227.4
12.5°	1285.6	1277.9	1302.7	1337.3	1433.2	1575.9	1682.3	1654.4	1506.8	1266.5
15°	1179.4	1176.3	1190.3	1206.2	1279.3	1423.2	1639.5	1726.0	1594.1	1312.7
17.5°	1145.4	1142.9	1147.2	1151.2	1198.5	1309.9	1537.6	1770.0	1677.8	1365.5
20°	1173.1	1169.7	1169.1	1166.0	1185.7	1261.6	1445.4	1773.1	1752.8	1413.5
22.5°	1253.9	1249.9	1235.9	1223.4	1225.1	1268.2	1404.3	1741.7	1809.4	1458.3
25°	1400.3	1393.8	1364.7	1322.4	1295.6	1313.9	1410.6	1700.3	1863.3	1493.4
27.5°	1583.6	1575.0	1537.6	1474.8	1413.5	1391.2	1456.0	1671.8	1908.1	1520.2
30°	1763.1	1752.0	1715.2	1666.4	1576.7	1506.5	1537.9	1684.3	1961.5	1548.2
32.5°	1956.9	1946.4	1897.6	1837.1	1762.8	1668.4	1650.1	1745.7	2026.9	1587.3
35°	2202.1	2185.6	2116.2	2033.7	1954.9	1859.3	1801.9	1851.6	2113.9	1647.0
37.5°	2481.3	2459.0	2384.2	2270.3	2167.6	2060.5	1986.9	1997.2	2241.5	1726.9
40°	2744.4	2724.2	2655.1	2547.8	2418.8	2288.9	2210.4	2187.6	2417.6	1824.2
42.5°	2902.3	2884.0	2854.9	2809.5	2700.8	2568.3	2469.3	2419.9	2626.0	1940.7
45°	2911.1	2895.2	2934.3	2987.1	2965.7	2877.5	2756.7	2666.2	2835.2	2050.0
47.5°	2769.6	2758.7	2877.5	3061.8	3153.8	3190.9	3079.5	2892.0	3007.9	2128.5
50°	2383.7	2379.7	2624.0	2962.5	3225.4	3465.5	3420.1	3102.1	3141.8	2169.0
52.5°	2066.8	2052.3	2194.7	2644.5	3121.2	3609.9	3752.9	3308.2	3235.4	2176.7
55°	1567.6	1554.8	1733.4	2112.5	2785.3	3558.5	3996.4	3520.8	3302.5	2157.0
57.5°	840.9	832.9	1058.7	1406.0	2177.3	3250.2	4040.3	3745.7	3359.0	2104.8
60°	327.4	326.0	410.5	682.2	1323.3	2644.3	3818.5	3880.8	3394.4	2040.6
62.5°	198.1	202.4	216.1	306.3	584.6	1642.7	3307.3	3727.2	3418.1	1981.8
65°	163.8	164.1	165.8	210.4	280.0	687.3	2489.8	3222.0	3359.6	1877.0
67.5°	140.4	143.0	149.6	167.0	197.5	301.4	1433.4	2495.8	3003.6	1633.3
70°	110.7	114.2	122.5	137.3	152.4	188.7	529.8	1660.7	2294.6	1231.1
72.5°	93.3	93.1	97.3	111.6	121.0	132.7	203.8	930.5	1333.5	587.7
75°	72.2	75.1	80.5	93.3	99.0	96.2	110.5	340.0	477.8	178.1
77.5°	56.5	58.8	63.7	76.2	81.9	68.2	63.7	121.6	153.6	63.9
80°	25.4	27.4	43.4	56.2	66.8	47.1	34.5	62.2	68.2	29.1
82.5°	4.6	7.7	25.4	29.7	34.3	30.5	18.0	32.3	33.4	11.7
85°	0.3	0.6	8.8	10.8	13.7	10.0	5.4	12.8	11.1	4.0
87.5°	0.0	0.0	0.0	0.3	0.3	1.4	1.7	2.3	1.7	1.4
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°
1115.5	0°	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5
1118.0	2.5°	1097.5	1057.0	1017.6	985.3	966.5	934.5	913.4	910.0	901.1	908.8
1120.9	5°	1076.4	1003.9	930.5	864.9	810.9	741.3	689.3	667.3	648.2	654.8
1128.3	7.5°	1066.4	951.9	837.7	725.6	610.3	498.9	416.2	381.6	355.4	359.1
1136.6	10°	1053.0	898.0	719.0	547.7	393.3	283.4	226.3	205.2	193.5	193.8
1148.9	12.5°	1042.7	833.5	581.1	371.3	239.5	181.0	163.3	158.1	154.7	155.0
1167.4	15°	1037.6	757.5	445.0	247.5	171.3	153.3	149.0	146.7	144.4	144.1
1188.0	17.5°	1029.0	673.1	325.7	180.7	149.9	143.6	139.9	137.3	134.4	133.9
1205.7	20°	1016.1	577.1	238.1	152.7	140.4	135.6	130.4	127.0	123.6	123.0
1216.8	22.5°	992.5	475.8	183.0	141.3	133.6	128.2	121.9	117.9	114.5	113.9
1211.4	25°	948.5	380.8	154.1	134.2	127.6	121.0	114.2	108.8	105.6	105.0
1199.7	27.5°	892.8	299.1	139.9	127.6	119.9	113.9	106.2	101.0	98.2	97.6
1184.3	30°	827.2	230.3	131.6	120.2	110.7	105.6	98.8	94.5	92.8	92.8
1173.4	32.5°	756.4	184.1	128.2	112.7	102.8	97.0	91.6	89.9	89.3	89.1
1179.4	35°	689.9	159.8	126.4	106.8	95.6	90.2	87.9	88.2	89.3	89.3
1198.0	37.5°	630.8	152.1	125.6	102.5	89.3	84.5	85.9	88.5	87.3	87.3
1230.5	40°	577.4	153.0	125.0	99.3	84.2	81.3	84.2	82.2	79.4	79.1
1270.2	42.5°	536.6	160.1	123.9	96.8	81.1	79.1	77.9	74.8	74.5	75.1
1311.3	45°	506.9	166.4	123.6	95.6	77.6	73.9	72.5	69.4	75.1	76.5
1328.1	47.5°	471.8	166.4	123.6	91.6	71.9	70.5	68.2	64.8	70.5	71.9
1312.1	50°	426.4	155.8	118.7	87.1	67.4	66.5	62.5	58.2	57.1	57.9
1274.7	52.5°	369.1	136.7	106.5	80.8	62.8	61.1	56.2	53.1	52.2	52.2
1207.7	55°	303.7	114.5	89.9	71.6	57.9	54.8	51.4	50.0	49.1	48.5
1113.8	57.5°	246.9	93.9	72.2	63.7	53.4	49.4	48.2	46.5	45.1	44.2
1035.3	60°	202.7	73.9	59.7	56.5	48.8	45.1	44.8	42.5	38.8	38.2
970.5	62.5°	156.4	54.2	50.2	49.1	44.2	41.1	40.5	36.0	30.3	29.1
878.6	65°	110.5	42.2	40.5	43.1	39.4	36.5	35.1	28.3	22.3	21.4
735.3	67.5°	77.6	35.4	32.0	37.7	34.3	30.5	29.7	24.0	18.6	18.0
556.0	70°	55.4	28.8	26.3	32.3	27.4	26.8	25.1	20.0	15.1	14.6
275.2	72.5°	39.1	22.0	20.3	28.0	18.8	23.1	20.6	15.4	11.4	10.8
93.6	75°	28.8	15.7	14.3	16.3	13.7	17.4	14.6	10.3	7.1	6.9
42.2	77.5°	21.1	10.0	8.6	8.0	8.0	10.8	8.0	4.3	3.1	2.9
21.4	80°	14.8	4.6	4.0	3.4	3.1	2.6	1.1	0.6	0.3	0.3
7.4	82.5°	8.8	2.0	2.0	1.4	0.9	0.0	0.0	0.0	0.0	0.0
2.9	85°	2.0	0.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.1	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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