

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: P945399

Luminaire Tested: **GALN-SB1B-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945399  
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-SB1B-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

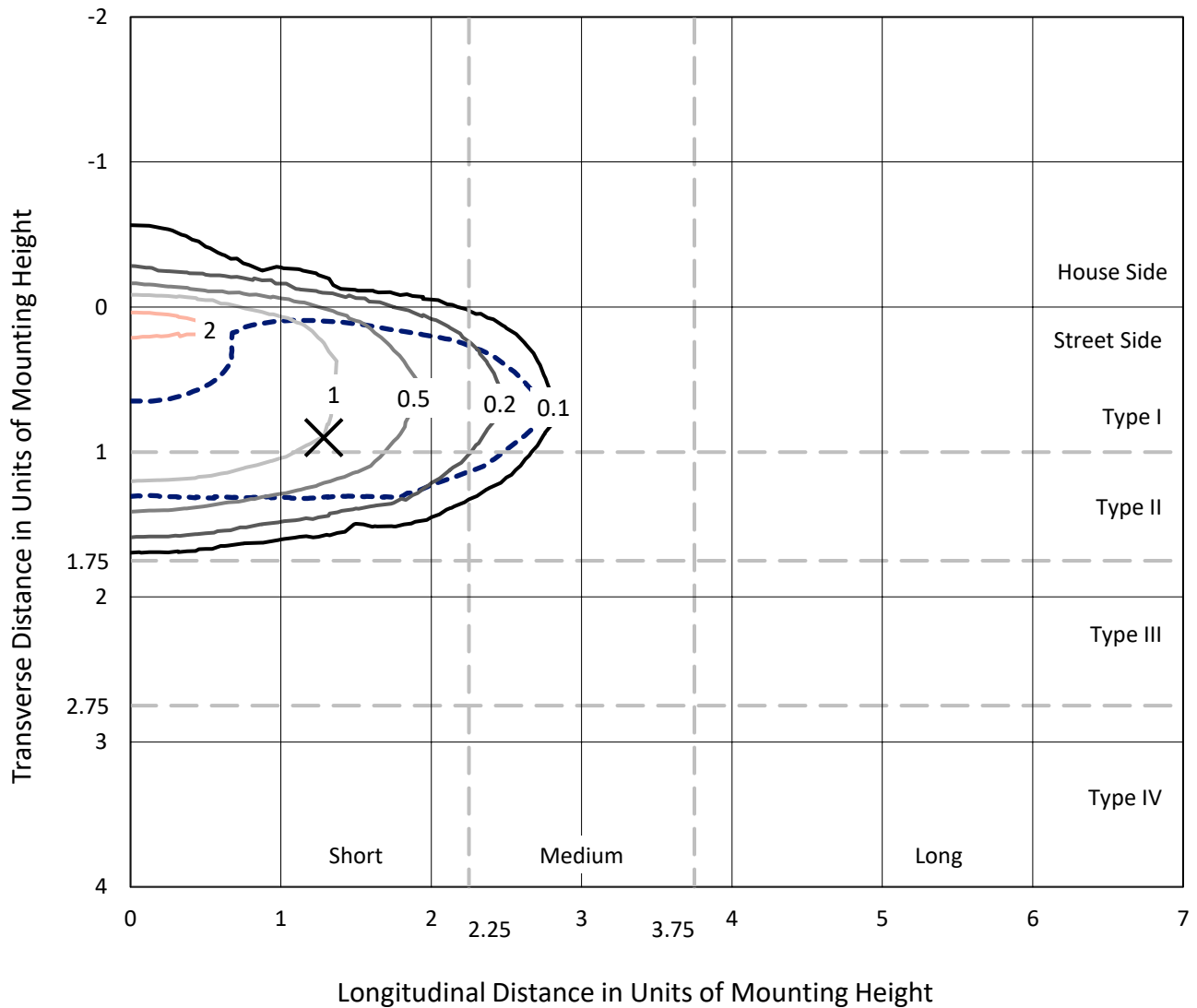
Lumens per Lamp: N/A  
Luminaire Lumens: 4594 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

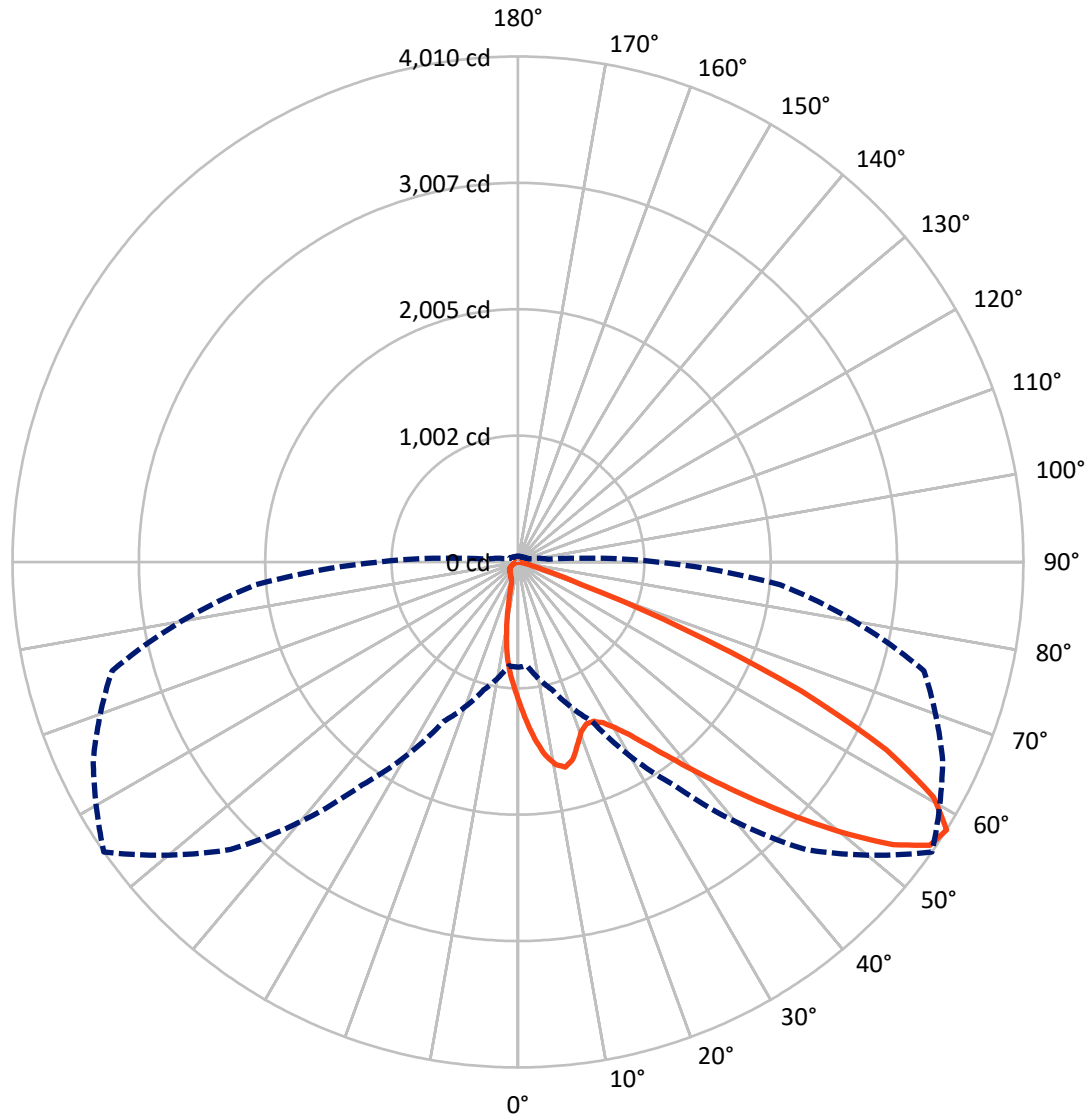
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	358.8	0.0	358.8
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	4235.2	0.0	4235.2
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	4594.0	0.0	4594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	2.2
10°-20°	248.8	5.4
20°-30°	398.1	8.7
30°-40°	673.8	14.7
40°-50°	1106.2	24.1
50°-60°	1215.8	26.5
60°-70°	697.4	15.2
70°-80°	142.5	3.1
80°-90°	8.4	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°	4594.0	100.0
0°-180°	4594.0	100.0

**Coefficient of Utilization**



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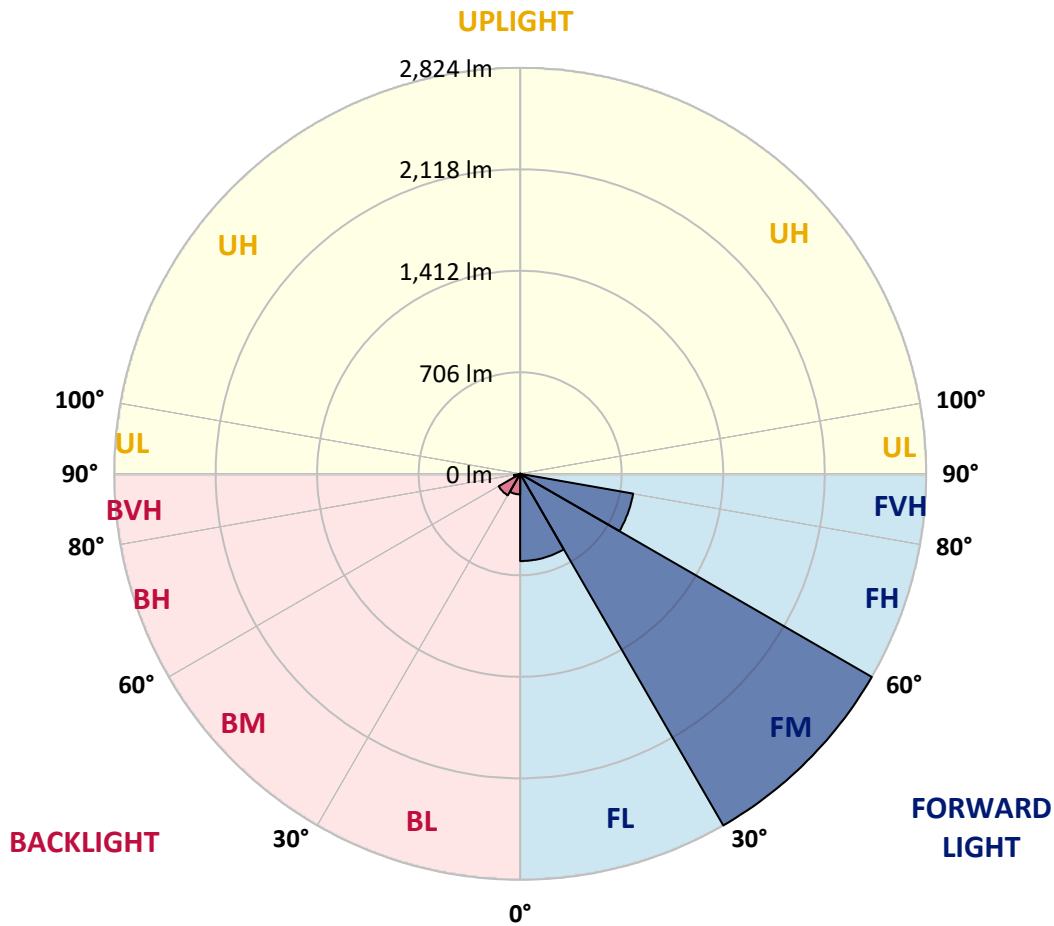
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.7	13.2			
FM (30°-60°)	2823.5	61.5			
FH (60°-80°)	797.2	17.4			G1/1800
FVH (80°-90°)	7.8	0.2			G0/10
BL (0°-30°)	143.2	3.1	B1/500		
BM (30°-60°)	172.3	3.8	B0/220		
BH (60°-80°)	42.7	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°	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0
2.5°	1373.6	1356.3	1353.8	1350.4	1317.5	1292.9	1257.2	1218.1	1174.2	1129.4
5°	1586.9	1573.3	1570.8	1554.9	1517.5	1475.6	1412.1	1332.0	1250.1	1153.8
7.5°	1628.3	1625.7	1637.3	1636.8	1631.7	1598.5	1545.0	1449.5	1326.6	1183.8
10°	1443.9	1450.4	1484.9	1515.2	1597.1	1644.7	1633.1	1554.3	1405.3	1218.1
12.5°	1275.9	1268.2	1292.9	1327.1	1422.3	1564.0	1669.6	1641.9	1495.4	1256.9
15°	1170.5	1167.4	1181.3	1197.1	1269.6	1412.4	1627.1	1713.0	1582.1	1302.8
17.5°	1136.8	1134.2	1138.5	1142.5	1189.5	1300.0	1526.0	1756.6	1665.1	1355.2
20°	1164.3	1160.9	1160.3	1157.2	1176.7	1252.1	1434.5	1759.7	1739.6	1402.8
22.5°	1244.4	1240.5	1226.6	1214.1	1215.8	1258.6	1393.7	1728.5	1795.7	1447.3
25°	1389.7	1383.2	1354.3	1312.4	1285.8	1303.9	1399.9	1687.5	1849.2	1482.1
27.5°	1571.6	1563.1	1526.0	1463.7	1402.8	1380.7	1445.0	1659.1	1893.7	1508.7
30°	1749.8	1738.7	1702.2	1653.8	1564.8	1495.1	1526.3	1671.6	1946.7	1536.5
32.5°	1942.1	1931.7	1883.2	1823.2	1749.5	1655.7	1637.6	1732.5	2011.5	1575.3
35°	2185.5	2169.0	2100.2	2018.3	1940.2	1845.3	1788.3	1837.6	2097.9	1634.5
37.5°	2462.5	2440.4	2366.2	2253.2	2151.2	2045.0	1971.9	1982.1	2224.6	1713.8
40°	2723.7	2703.6	2635.0	2528.5	2400.5	2271.6	2193.7	2171.0	2399.3	1810.4
42.5°	2880.3	2862.2	2833.3	2788.3	2680.4	2548.9	2450.6	2401.6	2606.1	1926.0
45°	2889.1	2873.3	2912.1	2964.5	2943.2	2855.7	2735.9	2646.1	2813.8	2034.5
47.5°	2748.6	2737.9	2855.7	3038.7	3129.9	3166.7	3056.3	2870.1	2985.2	2112.4
50°	2365.6	2361.7	2604.2	2940.1	3201.0	3439.2	3394.2	3078.6	3118.0	2152.6
52.5°	2051.2	2036.8	2178.1	2624.5	3097.6	3582.6	3724.5	3283.2	3210.9	2160.3
55°	1555.7	1543.0	1720.3	2096.5	2764.2	3531.6	3966.1	3494.2	3277.5	2140.7
57.5°	834.5	826.6	1050.7	1395.4	2160.8	3225.7	4009.8	3717.4	3333.6	2088.9
60°	324.9	323.5	407.4	677.0	1313.3	2624.3	3789.7	3851.4	3368.7	2025.1
62.5°	196.6	200.8	214.4	304.0	580.1	1630.3	3282.3	3699.0	3392.2	1966.8
65°	162.6	162.9	164.6	208.8	277.9	682.1	2471.0	3197.6	3334.2	1862.8
67.5°	139.4	141.9	148.4	165.7	196.0	299.1	1422.6	2477.0	2980.9	1620.9
70°	109.9	113.3	121.5	136.3	151.3	187.2	525.8	1648.1	2277.3	1221.8
72.5°	92.6	92.3	96.6	110.8	120.1	131.7	202.3	923.5	1323.5	583.3
75°	71.7	74.5	79.9	92.6	98.3	95.5	109.6	337.4	474.2	176.8
77.5°	56.1	58.4	63.2	75.6	81.3	67.7	63.2	120.7	152.4	63.5
80°	25.2	27.2	43.1	55.8	66.3	46.7	34.3	61.8	67.7	28.9
82.5°	4.5	7.6	25.2	29.5	34.0	30.3	17.8	32.0	33.1	11.6
85°	0.3	0.6	8.8	10.8	13.6	9.9	5.4	12.7	11.0	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°
1107.0	0°	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0	1107.0
1109.6	2.5°	1089.2	1049.0	1009.9	977.9	959.2	927.4	906.5	903.1	894.3	901.9
1112.4	5°	1068.2	996.3	923.5	858.3	804.8	735.7	684.1	662.3	643.3	649.8
1119.8	7.5°	1058.3	944.7	831.4	720.1	605.6	495.2	413.0	378.7	352.7	356.4
1128.0	10°	1045.0	891.2	713.6	543.6	390.4	281.3	224.6	203.7	192.1	192.3
1140.2	12.5°	1034.8	827.2	576.7	368.5	237.7	179.6	162.0	156.9	153.5	153.8
1158.6	15°	1029.7	751.8	441.6	245.6	170.0	152.1	147.9	145.6	143.3	143.1
1179.0	17.5°	1021.2	668.0	323.2	179.3	148.7	142.5	138.8	136.3	133.4	132.9
1196.6	20°	1008.5	572.8	236.3	151.6	139.4	134.6	129.5	126.1	122.7	122.1
1207.6	22.5°	984.9	472.2	181.6	140.2	132.6	127.2	121.0	117.0	113.6	113.0
1202.2	25°	941.3	377.9	153.0	133.1	126.6	120.1	113.3	107.9	104.8	104.2
1190.6	27.5°	886.1	296.9	138.8	126.6	119.0	113.0	105.4	100.3	97.4	96.9
1175.3	30°	820.9	228.6	130.6	119.3	109.9	104.8	98.0	93.8	92.1	92.1
1164.5	32.5°	750.7	182.7	127.2	111.9	102.0	96.3	90.9	89.2	88.7	88.4
1170.5	35°	684.7	158.6	125.5	105.9	94.9	89.5	87.2	87.5	88.7	88.7
1188.9	37.5°	626.0	151.0	124.6	101.7	88.7	83.8	85.3	87.8	86.7	86.7
1221.2	40°	573.1	151.8	124.1	98.6	83.6	80.7	83.6	81.6	78.8	78.5
1260.6	42.5°	532.6	158.9	122.9	96.0	80.5	78.5	77.3	74.2	73.9	74.5
1301.4	45°	503.1	165.1	122.7	94.9	77.1	73.4	72.0	68.8	74.5	75.9
1318.1	47.5°	468.3	165.1	122.7	90.9	71.4	70.0	67.7	64.3	70.0	71.4
1302.2	50°	423.2	154.7	117.8	86.4	66.9	66.0	62.0	57.8	56.7	57.5
1265.1	52.5°	366.3	135.7	105.7	80.2	62.3	60.6	55.8	52.7	51.8	51.8
1198.5	55°	301.4	113.6	89.2	71.1	57.5	54.4	51.0	49.6	48.7	48.2
1105.3	57.5°	245.0	93.2	71.7	63.2	53.0	49.0	47.9	46.2	44.8	43.9
1027.4	60°	201.1	73.4	59.2	56.1	48.4	44.8	44.5	42.2	38.5	38.0
963.1	62.5°	155.2	53.8	49.9	48.7	43.9	40.8	40.2	35.7	30.0	28.9
871.9	65°	109.6	41.9	40.2	42.8	39.1	36.3	34.8	28.0	22.1	21.2
729.7	67.5°	77.1	35.1	31.7	37.4	34.0	30.3	29.5	23.8	18.4	17.8
551.8	70°	55.0	28.6	26.1	32.0	27.2	26.6	24.9	19.8	15.0	14.4
273.1	72.5°	38.8	21.8	20.1	27.8	18.7	22.9	20.4	15.3	11.3	10.8
92.9	75°	28.6	15.6	14.2	16.1	13.6	17.3	14.4	10.2	7.1	6.8
41.9	77.5°	21.0	9.9	8.5	7.9	7.9	10.8	7.9	4.2	3.1	2.8
21.2	80°	14.7	4.5	4.0	3.4	3.1	2.5	1.1	0.6	0.3	0.3
7.4	82.5°	8.8	2.0	2.0	1.4	0.8	0.0	0.0	0.0	0.0	0.0
2.8	85°	2.0	0.8	0.8	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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