

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: P945421

Luminaire Tested: **GALN-SB1B-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5480 lumens
Efficiency: N/A
Efficacy: 137.7 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

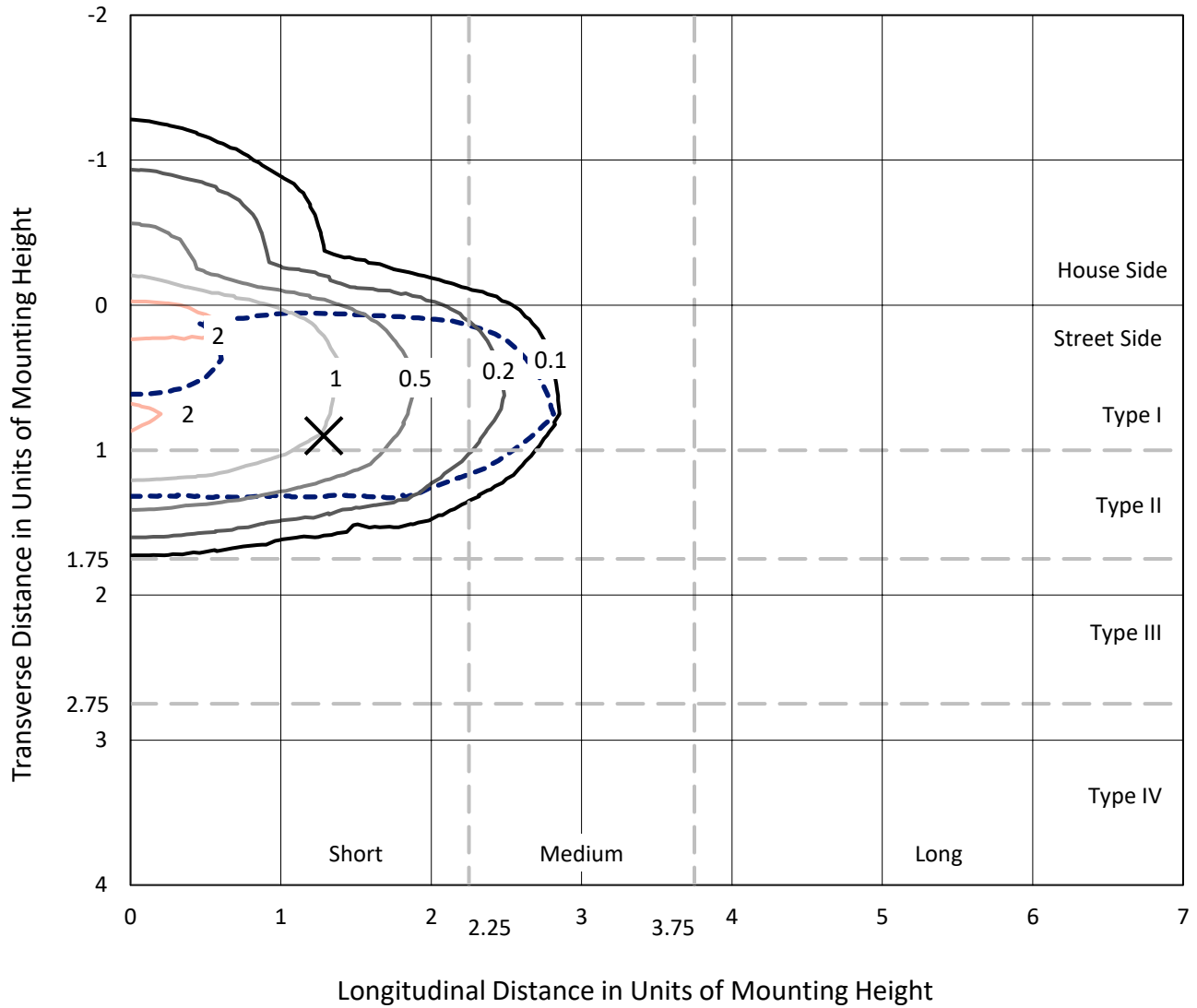
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

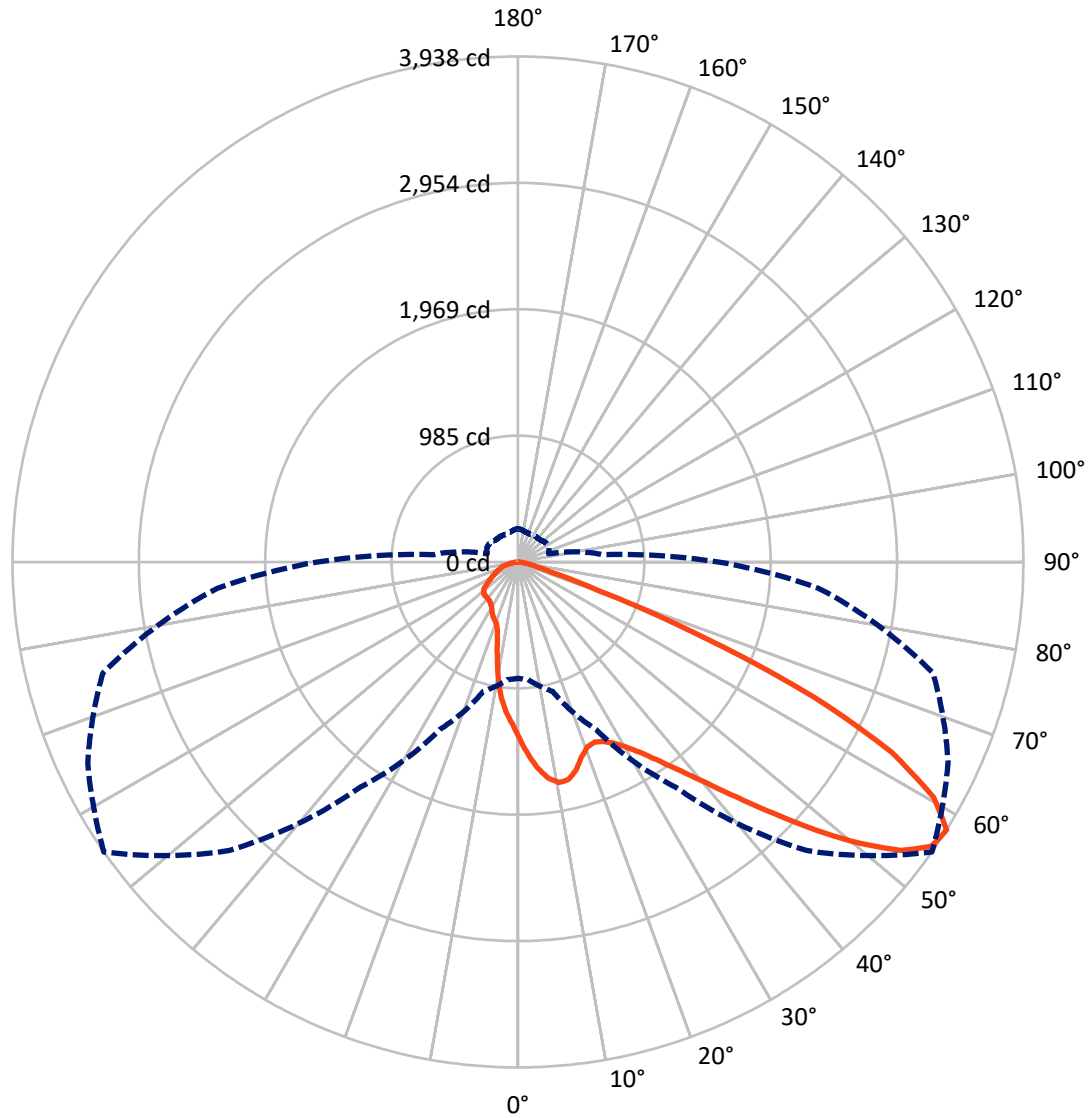
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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
House Side	Lumens	991.6	0.0	991.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4488.4	0.0	4488.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	5480.0	0.0	5480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	2.3
10°-20°	321.6	5.9
20°-30°	513.2	9.4
30°-40°	812.5	14.8
40°-50°	1243.6	22.7
50°-60°	1332.0	24.3
60°-70°	838.0	15.3
70°-80°	247.8	4.5
80°-90°	43.8	0.8
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°	5480.0	100.0
0°-180°	5480.0	100.0

Coefficient of Utilization



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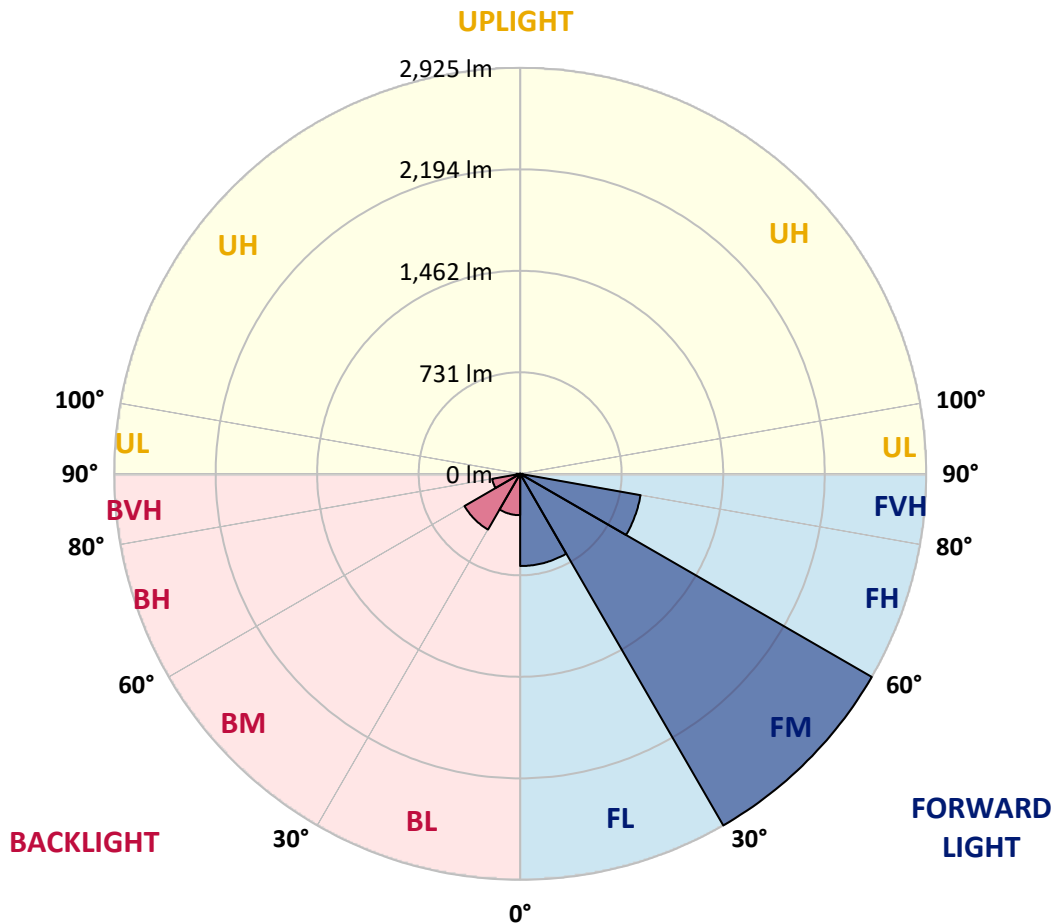
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.2	12.1			
FM (30°-60°)	2924.7	53.4			
FH (60°-80°)	881.0	16.1			G1/1800
FVH (80°-90°)	18.5	0.3			G1/100
BL (0°-30°)	298.0	5.4	B1/500		
BM (30°-60°)	463.5	8.5	B1/1000		
BH (60°-80°)	204.8	3.7	B1/500		G1/500
BVH (80°-90°)	25.3	0.5			G1/100
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°	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1
2.5°	1575.4	1574.2	1580.5	1559.2	1544.8	1525.2	1499.5	1466.6	1431.2	1393.8
5°	1717.3	1707.4	1713.9	1698.0	1682.2	1652.7	1614.5	1560.9	1495.5	1421.0
7.5°	1694.9	1688.1	1704.8	1719.0	1730.9	1727.2	1699.2	1643.1	1558.7	1450.4
10°	1514.5	1506.8	1530.3	1579.3	1651.3	1713.9	1747.9	1713.1	1623.3	1482.7
12.5°	1355.3	1351.6	1367.2	1406.8	1486.7	1606.8	1741.7	1774.2	1690.4	1521.0
15°	1287.3	1282.7	1292.7	1312.8	1363.8	1475.7	1685.0	1816.2	1756.4	1565.2
17.5°	1272.3	1267.2	1271.4	1281.9	1314.8	1400.0	1599.5	1836.9	1825.2	1614.5
20°	1300.0	1295.8	1296.3	1295.8	1318.7	1386.4	1540.0	1828.9	1885.3	1659.8
22.5°	1367.2	1360.1	1360.4	1345.3	1357.8	1410.2	1524.4	1807.7	1938.8	1699.5
25°	1476.5	1463.8	1466.3	1428.1	1424.7	1463.5	1548.8	1791.2	1992.1	1731.2
27.5°	1626.1	1611.6	1604.0	1547.1	1519.9	1539.1	1598.3	1796.9	2042.5	1758.7
30°	1813.1	1795.5	1779.9	1699.2	1649.9	1642.8	1675.4	1834.3	2102.0	1787.6
32.5°	2042.2	2021.8	1993.5	1886.4	1817.0	1779.9	1775.1	1900.9	2171.7	1824.4
35°	2315.1	2288.4	2248.2	2109.7	2021.8	1945.9	1906.5	1996.9	2267.2	1879.9
37.5°	2596.1	2566.0	2529.2	2364.3	2256.4	2144.5	2066.9	2127.2	2394.4	1955.3
40°	2855.3	2821.6	2787.3	2640.6	2524.7	2389.8	2263.2	2292.1	2549.9	2045.4
42.5°	3008.3	2983.3	2970.3	2891.0	2801.5	2664.6	2507.4	2487.6	2724.7	2149.0
45°	3001.5	2991.3	3031.5	3064.4	3043.1	2967.2	2793.5	2703.7	2900.0	2238.8
47.5°	2841.1	2847.9	2937.7	3122.4	3203.7	3243.4	3119.3	2915.9	3052.5	2306.0
50°	2404.9	2410.5	2618.5	3016.8	3245.1	3468.6	3442.5	3123.0	3170.6	2347.1
52.5°	2059.5	2063.2	2152.4	2703.4	3108.5	3581.9	3733.8	3318.2	3257.0	2358.4
55°	1551.3	1564.0	1664.0	2121.0	2753.3	3492.1	3911.1	3519.3	3311.7	2359.5
57.5°	906.2	920.1	1043.6	1439.7	2140.0	3179.1	3938.0	3697.8	3348.8	2350.5
60°	443.9	449.9	503.7	756.7	1319.6	2576.0	3721.6	3784.2	3369.5	2345.6
62.5°	299.2	298.3	300.6	373.4	650.2	1655.0	3270.6	3632.9	3358.4	2327.2
65°	257.2	254.1	245.6	262.0	336.8	757.0	2527.0	3181.4	3274.3	2281.1
67.5°	222.4	222.7	222.9	217.9	240.5	349.3	1544.2	2506.0	2972.3	2062.4
70°	184.1	186.7	187.8	187.8	196.0	229.2	659.2	1717.6	2344.5	1617.0
72.5°	167.7	162.3	162.9	160.1	160.1	174.5	265.4	973.7	1477.1	909.6
75°	136.8	140.2	140.8	138.8	132.3	133.1	157.5	408.5	632.0	377.3
77.5°	118.1	118.1	119.3	117.8	112.7	99.7	105.1	158.4	215.0	154.7
80°	94.9	94.6	99.4	102.3	94.3	73.7	67.1	87.5	95.5	68.0
82.5°	46.2	49.0	68.3	77.9	71.7	53.3	41.1	54.4	51.0	30.0
85°	26.9	25.5	30.6	43.3	41.1	29.5	19.8	28.3	26.6	15.3
87.5°	8.5	7.9	6.2	14.7	11.9	8.2	5.4	8.2	7.4	3.4
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°
1373.1	0°	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1
1377.6	2.5°	1357.5	1324.1	1291.0	1260.6	1242.2	1230.3	1218.4	1205.1	1200.0	1192.4
1381.3	5°	1343.9	1279.3	1221.8	1172.3	1127.2	1091.8	1056.1	1027.2	1014.2	1023.0
1392.9	7.5°	1336.0	1242.5	1153.8	1062.9	975.4	905.4	844.5	801.7	782.4	787.3
1404.3	10°	1328.9	1200.9	1065.7	922.1	796.3	709.6	647.3	614.7	602.6	605.1
1419.6	12.5°	1322.4	1154.1	959.5	770.6	636.8	579.6	561.8	562.0	564.3	566.0
1443.9	15°	1321.3	1097.8	840.8	638.0	550.7	547.0	566.3	578.5	585.0	587.0
1464.3	17.5°	1319.6	1030.3	719.8	547.6	529.8	554.7	572.5	580.5	585.6	585.8
1484.2	20°	1312.8	944.8	608.2	504.5	525.2	546.8	557.8	564.0	568.3	569.7
1499.2	22.5°	1291.8	849.6	521.3	485.3	507.1	524.4	537.4	544.5	547.0	548.7
1502.0	25°	1254.1	743.1	461.2	466.9	481.9	503.7	514.2	515.6	514.7	517.3
1494.9	27.5°	1204.8	628.9	423.8	441.9	461.2	479.9	485.6	484.7	483.0	485.8
1482.7	30°	1145.3	526.4	400.0	413.9	440.2	457.2	462.3	460.3	456.9	460.1
1476.5	32.5°	1082.5	442.5	380.5	394.3	423.0	439.7	444.8	442.8	440.2	442.8
1483.6	35°	1023.8	383.9	362.3	381.3	409.4	425.8	432.3	432.6	432.6	435.7
1502.3	37.5°	970.0	349.6	347.3	373.1	400.0	414.7	424.1	424.7	412.5	413.3
1534.0	40°	920.1	335.1	340.5	367.7	390.9	405.1	405.7	373.9	351.6	351.0
1570.3	42.5°	879.3	332.3	342.5	367.1	384.4	385.0	345.0	320.4	314.2	314.5
1603.7	45°	841.1	331.5	347.0	367.1	374.8	332.6	305.7	299.2	299.7	302.0
1618.7	47.5°	798.3	328.1	347.9	362.0	347.0	295.8	287.8	285.0	283.9	284.4
1615.3	50°	751.6	315.9	337.1	351.8	299.4	279.9	270.0	269.1	270.5	271.4
1596.3	52.5°	702.3	296.0	318.7	333.4	277.6	266.0	255.0	256.9	263.2	265.2
1576.5	55°	670.0	272.8	294.3	296.6	262.3	253.0	243.6	248.2	259.8	263.5
1564.6	57.5°	661.5	248.2	266.6	264.0	242.8	241.6	236.0	239.9	254.7	260.1
1564.0	60°	658.9	226.1	239.4	237.4	223.8	229.2	227.8	229.7	234.8	236.5
1558.4	62.5°	639.1	208.5	215.0	212.2	206.8	216.2	219.6	215.3	219.3	221.3
1519.6	65°	588.7	194.3	191.2	189.2	191.5	200.0	206.8	198.3	202.0	207.7
1370.0	67.5°	505.4	175.1	166.6	168.8	175.9	180.5	189.2	179.6	182.7	192.4
1103.4	70°	408.8	150.7	143.1	149.6	156.4	165.7	167.1	160.6	168.0	178.8
673.4	72.5°	289.2	126.1	120.7	134.0	136.3	148.4	145.3	142.2	152.4	156.1
332.9	75°	200.6	101.7	98.6	108.8	117.0	127.5	125.2	128.9	150.4	152.1
166.3	77.5°	126.9	79.0	77.1	83.6	94.9	106.5	110.2	152.1	256.9	267.1
86.4	80°	73.7	58.9	56.7	61.8	71.7	82.4	106.2	186.7	169.4	167.4
38.8	82.5°	41.1	40.5	37.7	39.1	47.9	59.5	150.1	131.4	106.8	110.2
15.6	85°	19.3	23.8	20.4	19.5	26.9	69.7	100.3	75.1	49.9	48.7
3.4	87.5°	5.1	4.5	4.5	5.1	11.3	60.1	39.9	32.0	19.0	18.4
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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