

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: P946575

Luminaire Tested: **GALN-SB2A-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946575
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-SB2A-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5543 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

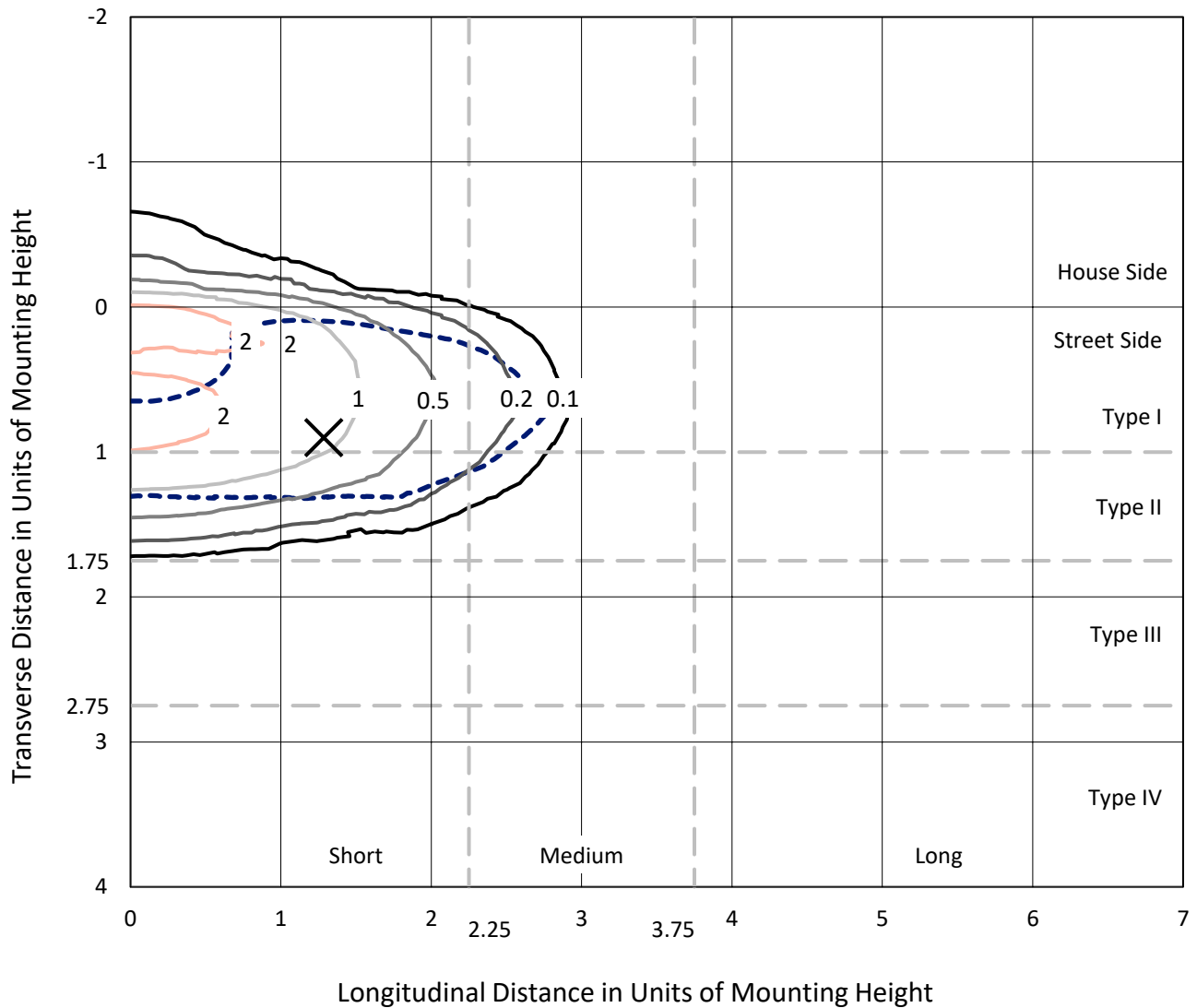
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

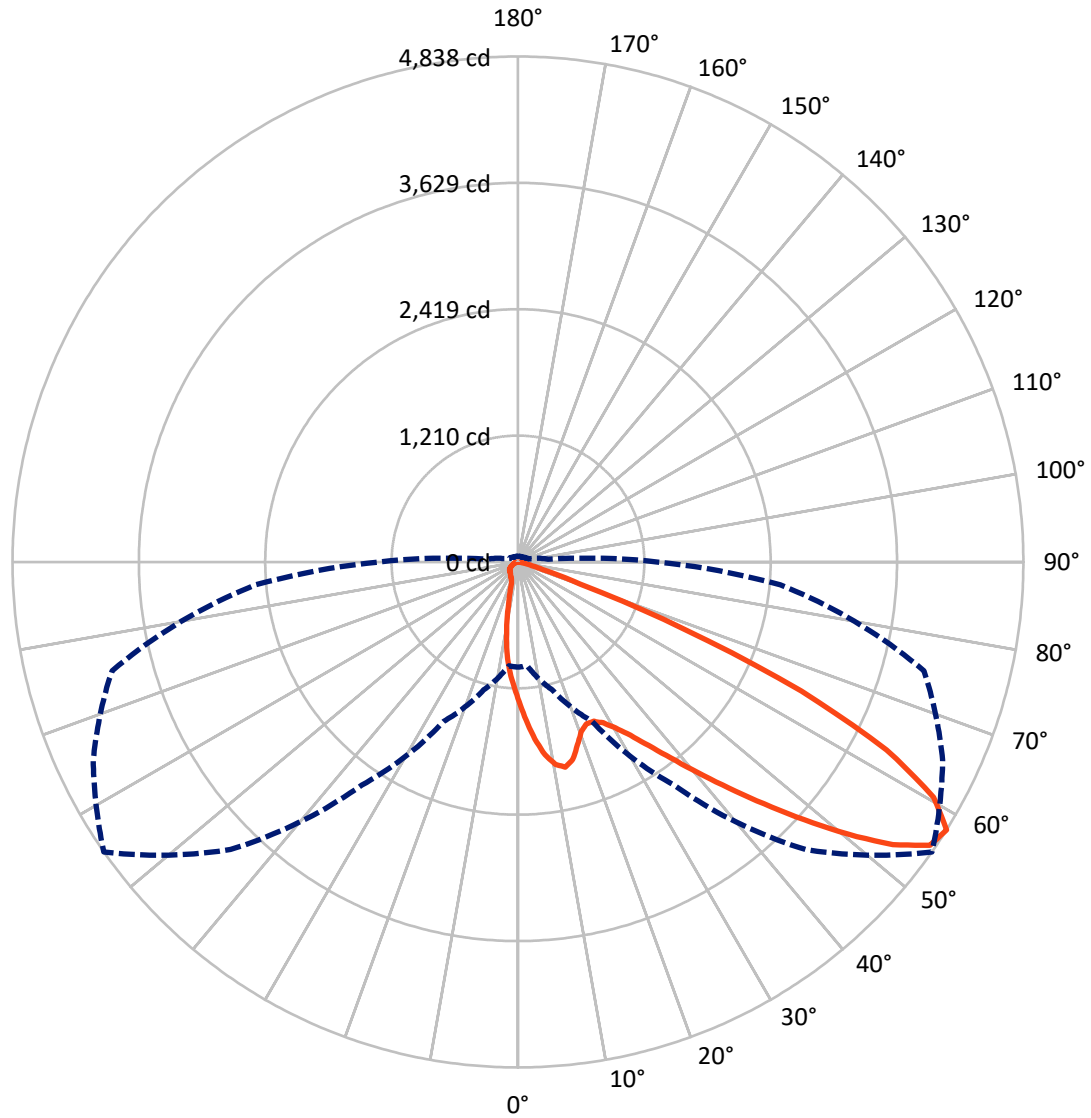
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	432.9	0.0	432.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	5110.1	0.0	5110.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	5543.0	0.0	5543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	2.2
10°-20°	300.2	5.4
20°-30°	480.3	8.7
30°-40°	813.0	14.7
40°-50°	1334.7	24.1
50°-60°	1467.0	26.5
60°-70°	841.4	15.2
70°-80°	171.9	3.1
80°-90°	10.1	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°	5543.0	100.0
0°-180°	5543.0	100.0

Coefficient of Utilization



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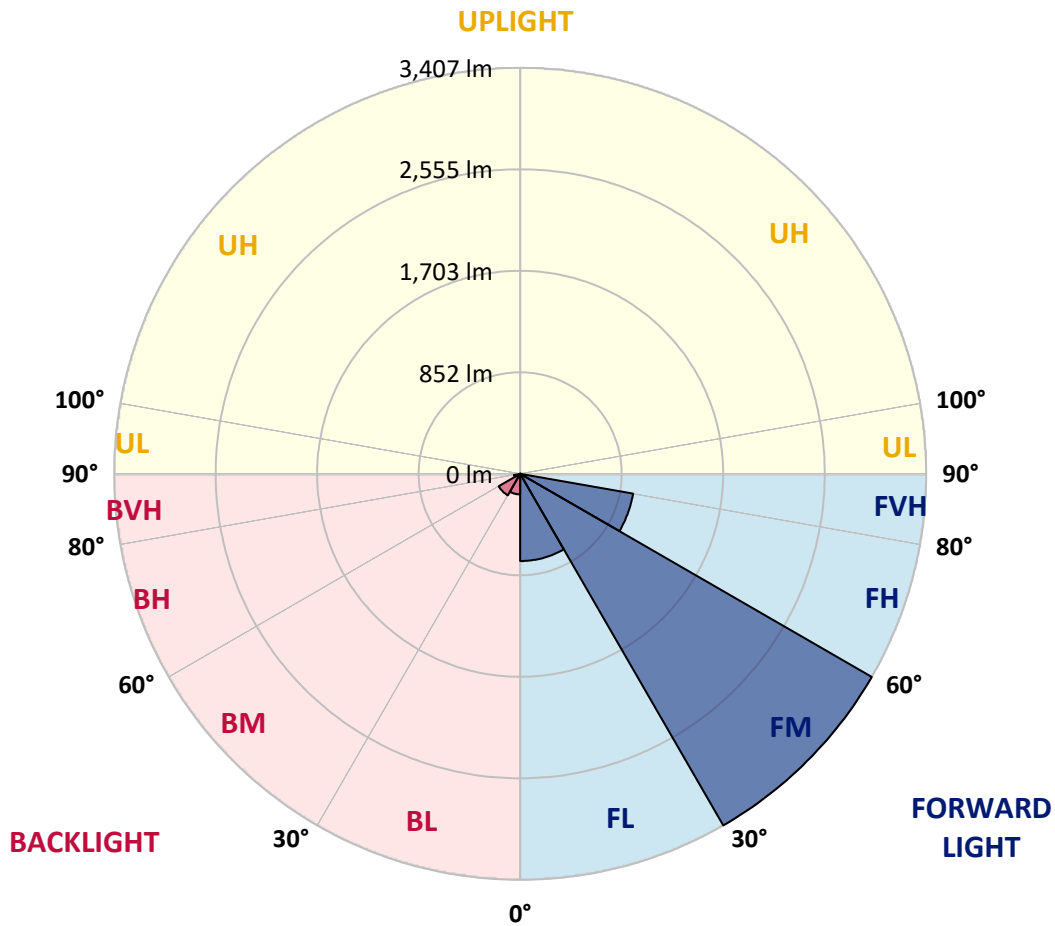
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.0	13.2			
FM (30°-60°)	3406.8	61.5			
FH (60°-80°)	961.9	17.4			G1/1800
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	172.8	3.1	B1/500		
BM (30°-60°)	207.9	3.8	B0/220		
BH (60°-80°)	51.5	0.9	B0/110		G0/110
BVH (80°-90°)	0.7	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°	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7
2.5°	1657.4	1636.5	1633.4	1629.3	1589.7	1559.9	1516.9	1469.7	1416.7	1362.7
5°	1914.7	1898.3	1895.2	1876.1	1831.0	1780.4	1703.8	1607.1	1508.3	1392.1
7.5°	1964.6	1961.5	1975.6	1974.9	1968.7	1928.7	1864.1	1749.0	1600.6	1428.4
10°	1742.1	1750.0	1791.7	1828.2	1927.0	1984.4	1970.4	1875.4	1695.6	1469.7
12.5°	1539.4	1530.2	1559.9	1601.3	1716.1	1887.0	2014.5	1981.0	1804.3	1516.5
15°	1412.3	1408.5	1425.3	1444.4	1531.9	1704.2	1963.3	2066.8	1908.9	1571.9
17.5°	1371.6	1368.5	1373.7	1378.5	1435.2	1568.5	1841.2	2119.5	2009.1	1635.1
20°	1404.8	1400.7	1400.0	1396.2	1419.8	1510.7	1730.8	2123.2	2098.9	1692.6
22.5°	1501.5	1496.7	1480.0	1464.9	1467.0	1518.6	1681.6	2085.6	2166.6	1746.2
25°	1676.8	1669.0	1634.1	1583.5	1551.4	1573.3	1689.1	2036.1	2231.2	1788.3
27.5°	1896.3	1886.0	1841.2	1766.0	1692.6	1665.9	1743.5	2001.9	2284.9	1820.4
30°	2111.3	2097.9	2053.8	1995.4	1888.1	1804.0	1841.6	2016.9	2348.8	1853.9
32.5°	2343.3	2330.7	2272.2	2199.8	2110.9	1997.8	1975.9	2090.4	2427.1	1900.7
35°	2636.9	2617.1	2534.1	2435.3	2340.9	2226.4	2157.7	2217.2	2531.3	1972.1
37.5°	2971.2	2944.5	2855.0	2718.6	2595.6	2467.4	2379.2	2391.5	2684.1	2067.8
40°	3286.3	3262.1	3179.4	3050.8	2896.4	2740.8	2646.8	2619.5	2895.0	2184.4
42.5°	3475.3	3453.5	3418.6	3364.3	3234.0	3075.5	2956.8	2897.7	3144.5	2323.8
45°	3485.9	3466.8	3513.6	3576.9	3551.2	3445.6	3301.0	3192.7	3395.0	2454.8
47.5°	3316.4	3303.4	3445.6	3666.4	3776.5	3820.9	3687.6	3463.0	3601.8	2548.7
50°	2854.3	2849.5	3142.1	3547.5	3862.3	4149.7	4095.4	3714.6	3762.1	2597.3
52.5°	2474.9	2457.5	2628.0	3166.7	3737.5	4322.7	4493.9	3961.4	3874.2	2606.5
55°	1877.1	1861.7	2075.7	2529.6	3335.2	4261.1	4785.4	4216.0	3954.5	2582.9
57.5°	1006.9	997.4	1267.7	1683.7	2607.2	3892.0	4838.1	4485.3	4022.2	2520.4
60°	392.0	390.3	491.5	816.9	1584.6	3166.4	4572.5	4647.0	4064.6	2443.5
62.5°	237.2	242.3	258.7	366.7	700.0	1967.0	3960.4	4463.1	4093.0	2373.1
65°	196.2	196.5	198.6	251.9	335.3	823.0	2981.5	3858.2	4022.9	2247.6
67.5°	168.2	171.2	179.1	199.9	236.5	360.9	1716.5	2988.6	3596.7	1955.7
70°	132.6	136.7	146.6	164.4	182.5	225.9	634.4	1988.6	2747.7	1474.2
72.5°	111.8	111.4	116.6	133.6	144.9	158.9	244.0	1114.2	1596.9	703.8
75°	86.5	89.9	96.4	111.8	118.6	115.2	132.3	407.1	572.2	213.3
77.5°	67.7	70.4	76.2	91.3	98.1	81.7	76.2	145.6	183.9	76.6
80°	30.4	32.8	52.0	67.3	80.0	56.4	41.4	74.5	81.7	34.9
82.5°	5.5	9.2	30.4	35.5	41.0	36.6	21.5	38.6	40.0	14.0
85°	0.3	0.7	10.6	13.0	16.4	12.0	6.5	15.4	13.3	4.8
87.5°	0.0	0.0	0.0	0.3	0.3	1.7	2.1	2.7	2.1	1.7
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°
1335.7	0°	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7	1335.7
1338.8	2.5°	1314.2	1265.7	1218.5	1179.9	1157.3	1119.0	1093.7	1089.6	1079.0	1088.3
1342.2	5°	1288.9	1202.1	1114.2	1035.6	971.0	887.6	825.4	799.1	776.2	784.1
1351.1	7.5°	1276.9	1139.9	1003.2	868.8	730.8	597.5	498.3	457.0	425.5	430.0
1361.0	10°	1260.9	1075.3	861.0	655.9	471.0	339.4	271.0	245.7	231.7	232.1
1375.7	12.5°	1248.6	998.0	695.9	444.7	286.8	216.7	195.5	189.4	185.3	185.6
1397.9	15°	1242.4	907.1	532.9	296.3	205.1	183.5	178.4	175.7	172.9	172.6
1422.5	17.5°	1232.2	805.9	390.0	216.4	179.4	171.9	167.5	164.4	161.0	160.3
1443.7	20°	1216.8	691.1	285.1	182.9	168.2	162.4	156.2	152.1	148.0	147.3
1457.1	22.5°	1188.4	569.8	219.1	169.2	160.0	153.5	145.9	141.2	137.1	136.4
1450.6	25°	1135.8	456.0	184.6	160.6	152.8	144.9	136.7	130.2	126.5	125.8
1436.6	27.5°	1069.1	358.2	167.5	152.8	143.6	136.4	127.1	121.0	117.6	116.9
1418.1	30°	990.5	275.8	157.6	143.9	132.6	126.5	118.3	113.1	111.1	111.1
1405.1	32.5°	905.8	220.5	153.5	135.0	123.0	116.2	109.7	107.7	107.0	106.6
1412.3	35°	826.1	191.4	151.4	127.8	114.5	108.0	105.3	105.6	107.0	107.0
1434.5	37.5°	755.4	182.2	150.4	122.7	107.0	101.2	102.9	106.0	104.6	104.6
1473.5	40°	691.4	183.2	149.7	118.9	100.8	97.4	100.8	98.4	95.0	94.7
1521.0	42.5°	642.6	191.7	148.3	115.9	97.1	94.7	93.3	89.5	89.2	89.9
1570.2	45°	607.0	199.3	148.0	114.5	93.0	88.5	86.8	83.1	89.9	91.6
1590.4	47.5°	565.0	199.3	148.0	109.7	86.1	84.4	81.7	77.6	84.4	86.1
1571.2	50°	510.6	186.6	142.2	104.2	80.7	79.6	74.9	69.7	68.4	69.4
1526.4	52.5°	441.9	163.7	127.5	96.7	75.2	73.1	67.3	63.6	62.5	62.5
1446.1	55°	363.7	137.1	107.7	85.8	69.4	65.6	61.5	59.8	58.8	58.1
1333.7	57.5°	295.7	112.4	86.5	76.2	63.9	59.1	57.8	55.7	54.0	53.0
1239.7	60°	242.7	88.5	71.4	67.7	58.4	54.0	53.7	50.9	46.5	45.8
1162.1	62.5°	187.3	64.9	60.2	58.8	53.0	49.2	48.5	43.1	36.2	34.9
1052.0	65°	132.3	50.6	48.5	51.6	47.2	43.7	42.0	33.8	26.7	25.6
880.5	67.5°	93.0	42.4	38.3	45.1	41.0	36.6	35.5	28.7	22.2	21.5
665.8	70°	66.3	34.5	31.4	38.6	32.8	32.1	30.1	23.9	18.1	17.4
329.5	72.5°	46.8	26.3	24.3	33.5	22.6	27.7	24.6	18.5	13.7	13.0
112.1	75°	34.5	18.8	17.1	19.5	16.4	20.8	17.4	12.3	8.5	8.2
50.6	77.5°	25.3	12.0	10.3	9.6	9.6	13.0	9.6	5.1	3.8	3.4
25.6	80°	17.8	5.5	4.8	4.1	3.8	3.1	1.4	0.7	0.3	0.3
8.9	82.5°	10.6	2.4	2.4	1.7	1.0	0.0	0.0	0.0	0.0	0.0
3.4	85°	2.4	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.4	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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