

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: P946953

Luminaire Tested: **GALN-SB2B-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946953
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-SB2B-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA 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: 6679 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

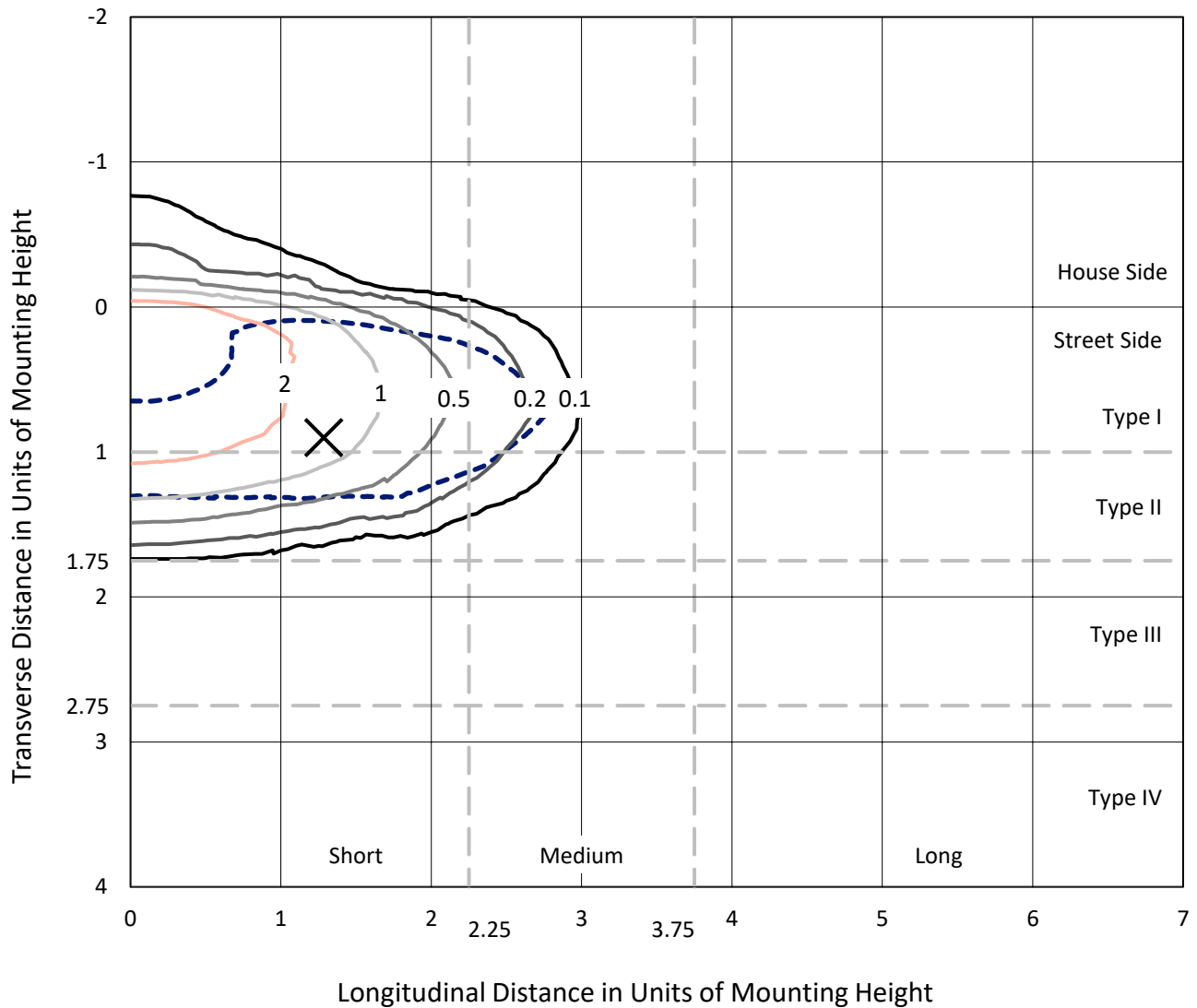
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

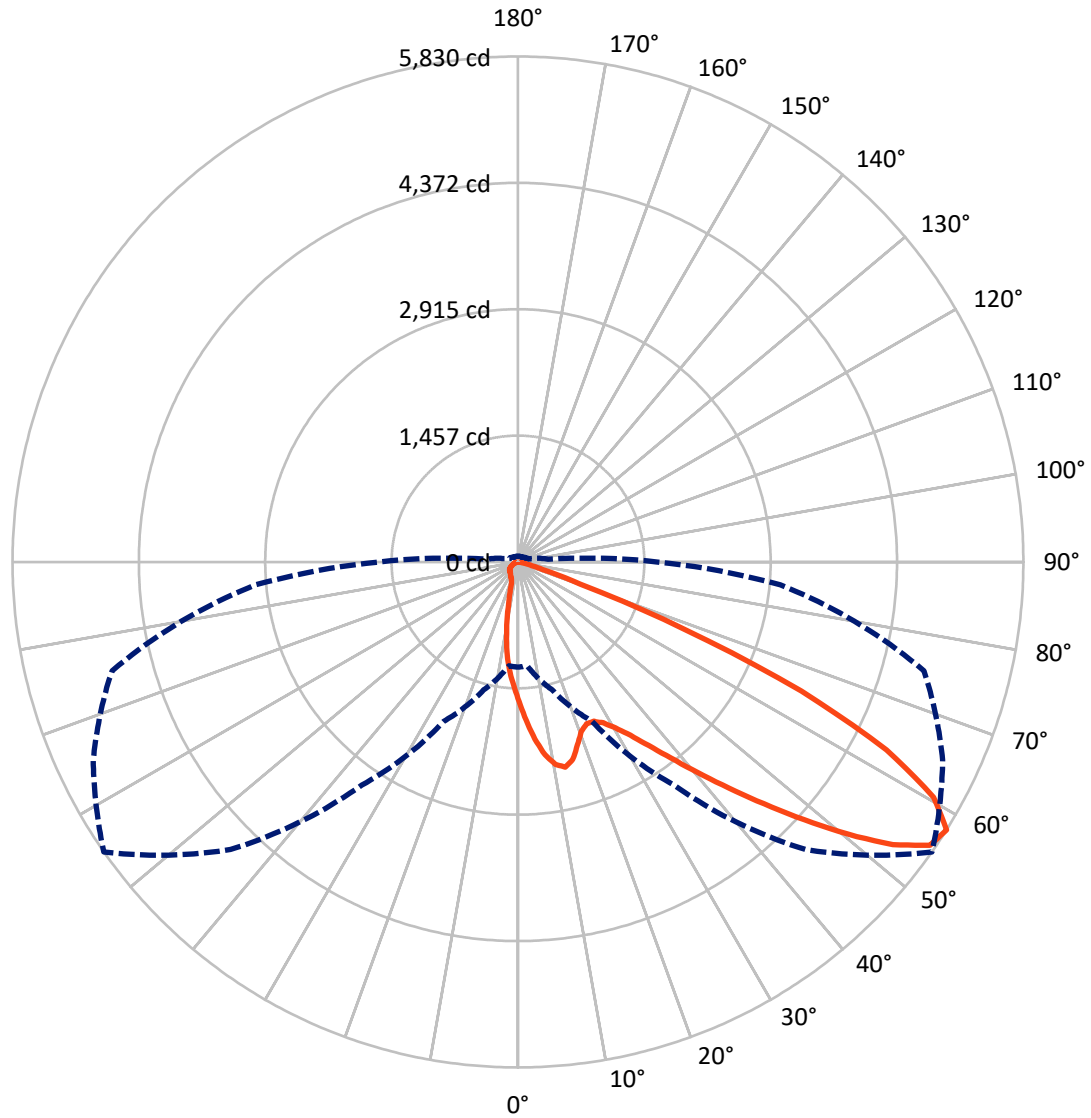
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	521.6	0.0	521.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6157.4	0.0	6157.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	6679.0	0.0	6679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	2.2
10°-20°	361.7	5.4
20°-30°	578.8	8.7
30°-40°	979.6	14.7
40°-50°	1608.3	24.1
50°-60°	1767.6	26.5
60°-70°	1013.9	15.2
70°-80°	207.2	3.1
80°-90°	12.2	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°	6679.0	100.0
0°-180°	6679.0	100.0

Coefficient of Utilization



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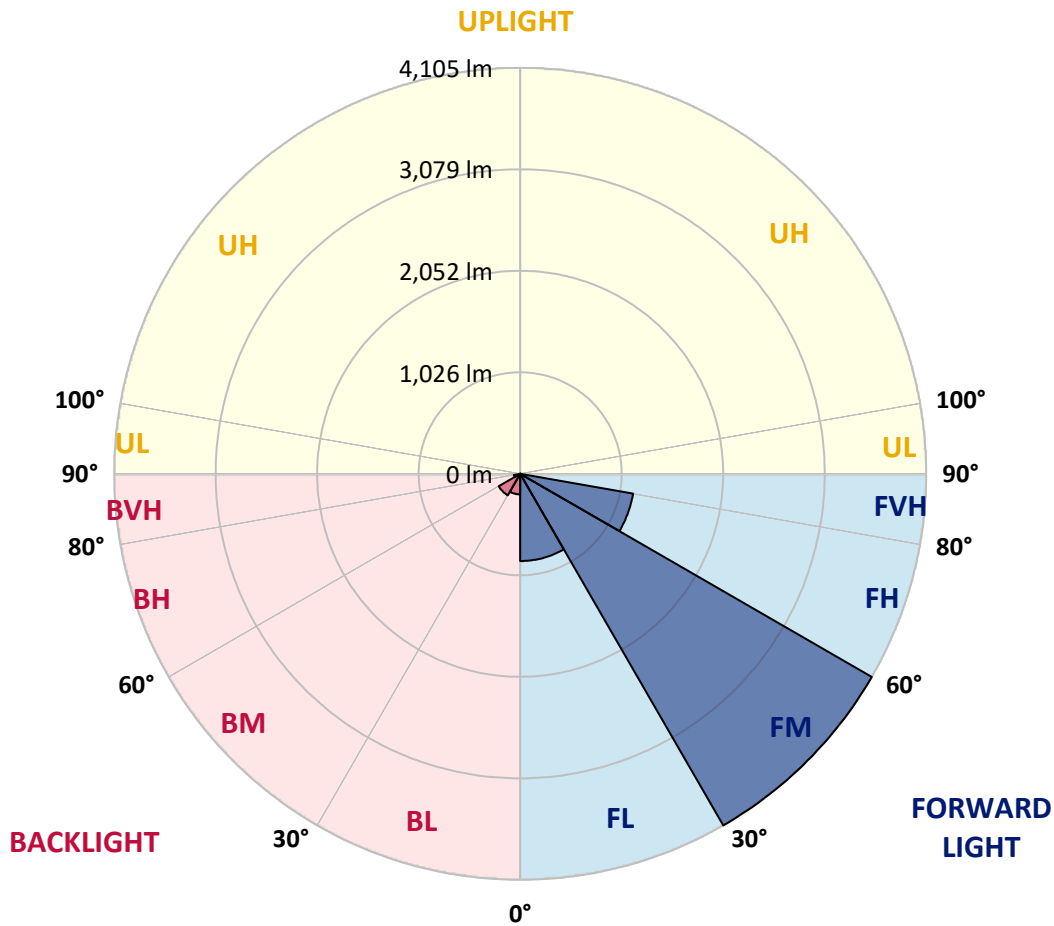
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.0	13.2			
FM (30°-60°)	4105.0	61.5			
FH (60°-80°)	1159.0	17.4			G1/1800
FVH (80°-90°)	11.4	0.2			G1/100
BL (0°-30°)	208.2	3.1	B1/500		
BM (30°-60°)	250.5	3.8	B1/1000		
BH (60°-80°)	62.0	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°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1997.0	1971.9	1968.2	1963.2	1915.5	1879.6	1827.8	1770.9	1707.1	1642.0
5°	2307.1	2287.4	2283.7	2260.6	2206.2	2145.3	2053.0	1936.5	1817.5	1677.4
7.5°	2367.3	2363.6	2380.4	2379.6	2372.2	2324.0	2246.2	2107.4	1928.7	1721.1
10°	2099.2	2108.6	2158.9	2202.9	2322.0	2391.1	2374.3	2259.8	2043.1	1770.9
12.5°	1854.9	1843.8	1879.6	1929.5	2067.9	2273.8	2427.4	2387.0	2174.1	1827.3
15°	1701.7	1697.2	1717.4	1740.4	1845.9	2053.4	2365.6	2490.4	2300.1	1894.1
17.5°	1652.7	1649.0	1655.2	1661.0	1729.3	1889.9	2218.6	2553.8	2420.8	1970.2
20°	1692.7	1687.7	1686.9	1682.4	1710.8	1820.3	2085.6	2558.4	2529.1	2039.4
22.5°	1809.2	1803.5	1783.3	1765.2	1767.6	1829.8	2026.3	2513.1	2610.7	2104.1
25°	2020.5	2011.0	1969.0	1908.1	1869.3	1895.7	2035.3	2453.3	2688.5	2154.8
27.5°	2284.9	2272.5	2218.6	2128.0	2039.4	2007.3	2100.8	2412.2	2753.2	2193.5
30°	2543.9	2527.9	2474.8	2404.3	2275.0	2173.7	2219.0	2430.3	2830.2	2233.8
32.5°	2823.6	2808.3	2737.9	2650.6	2543.5	2407.2	2380.9	2518.8	2924.5	2290.2
35°	3177.4	3153.5	3053.4	2934.4	2820.7	2682.7	2600.0	2671.6	3050.1	2376.3
37.5°	3580.1	3548.0	3440.1	3275.8	3127.5	2973.1	2866.8	2881.7	3234.2	2491.6
40°	3959.9	3930.6	3830.9	3676.1	3489.9	3302.6	3189.3	3156.3	3488.3	2632.1
42.5°	4187.6	4161.2	4119.2	4053.8	3896.8	3705.7	3562.8	3491.6	3788.9	2800.1
45°	4200.4	4177.3	4233.7	4309.9	4279.0	4151.8	3977.6	3847.0	4090.8	2957.8
47.5°	3996.1	3980.4	4151.8	4417.8	4550.4	4604.0	4443.4	4172.8	4340.0	3071.1
50°	3439.3	3433.5	3786.1	4274.5	4653.8	5000.2	4934.7	4475.9	4533.1	3129.6
52.5°	2982.1	2961.1	3166.6	3815.7	4503.5	5208.6	5414.9	4773.2	4668.2	3140.7
55°	2261.8	2243.3	2501.1	3048.0	4018.7	5134.4	5766.2	5080.1	4765.0	3112.3
57.5°	1213.3	1201.8	1527.5	2028.7	3141.5	4689.6	5829.6	5404.6	4846.5	3036.9
60°	472.4	470.3	592.2	984.3	1909.3	3815.3	5509.6	5599.4	4897.6	2944.3
62.5°	285.8	292.0	311.8	441.9	843.5	2370.1	4772.0	5377.8	4931.8	2859.4
65°	236.4	236.8	239.3	303.5	404.0	991.7	3592.5	4648.9	4847.4	2708.3
67.5°	202.6	206.3	215.8	240.9	285.0	434.9	2068.3	3601.1	4333.8	2356.6
70°	159.8	164.7	176.7	198.1	219.9	272.2	764.4	2396.1	3310.8	1776.3
72.5°	134.7	134.3	140.4	161.0	174.6	191.5	294.1	1342.6	1924.1	848.0
75°	104.2	108.3	116.1	134.7	142.9	138.8	159.4	490.5	689.4	257.0
77.5°	81.5	84.8	91.8	110.0	118.2	98.4	91.8	175.4	221.6	92.3
80°	36.7	39.5	62.6	81.1	96.4	68.0	49.8	89.8	98.4	42.0
82.5°	6.6	11.1	36.7	42.8	49.4	44.1	25.9	46.5	48.2	16.9
85°	0.4	0.8	12.8	15.6	19.8	14.4	7.8	18.5	16.1	5.8
87.5°	0.0	0.0	0.0	0.4	0.4	2.1	2.5	3.3	2.5	2.1
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°
1609.5	0°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
1613.2	2.5°	1583.5	1525.0	1468.2	1421.7	1394.5	1348.4	1317.9	1312.9	1300.2	1311.3
1617.3	5°	1553.1	1448.4	1342.6	1247.9	1170.0	1069.6	994.6	962.9	935.3	944.8
1628.0	7.5°	1538.6	1373.5	1208.8	1046.9	880.5	719.9	600.5	550.6	512.7	518.1
1640.0	10°	1519.3	1295.7	1037.4	790.3	567.5	409.0	326.6	296.1	279.2	279.6
1657.7	12.5°	1504.5	1202.6	838.5	535.8	345.5	261.1	235.6	228.2	223.2	223.6
1684.4	15°	1497.0	1093.0	642.1	357.1	247.1	221.2	215.0	211.7	208.4	208.0
1714.1	17.5°	1484.7	971.1	469.9	260.7	216.2	207.2	201.8	198.1	194.0	193.2
1739.6	20°	1466.2	832.7	343.5	220.3	202.6	195.6	188.2	183.3	178.3	177.5
1755.7	22.5°	1432.0	686.5	264.0	203.9	192.7	184.9	175.9	170.1	165.1	164.3
1747.9	25°	1368.5	549.4	222.4	193.6	184.1	174.6	164.7	156.9	152.4	151.6
1731.0	27.5°	1288.2	431.6	201.8	184.1	173.0	164.3	153.2	145.8	141.7	140.8
1708.7	30°	1193.5	332.4	189.9	173.4	159.8	152.4	142.5	136.3	133.8	133.8
1693.1	32.5°	1091.4	265.6	184.9	162.7	148.3	140.0	132.2	129.7	128.9	128.5
1701.7	35°	995.4	230.6	182.4	154.0	138.0	130.1	126.8	127.3	128.9	128.9
1728.5	37.5°	910.2	219.5	181.2	147.9	128.9	121.9	124.0	127.7	126.0	126.0
1775.4	40°	833.2	220.7	180.4	143.3	121.5	117.4	121.5	118.6	114.5	114.1
1832.7	42.5°	774.3	231.0	178.7	139.6	117.0	114.1	112.4	107.9	107.5	108.3
1892.0	45°	731.4	240.1	178.3	138.0	112.0	106.7	104.6	100.1	108.3	110.4
1916.3	47.5°	680.8	240.1	178.3	132.2	103.8	101.7	98.4	93.5	101.7	103.8
1893.2	50°	615.3	224.9	171.3	125.6	97.2	96.0	90.2	84.0	82.4	83.6
1839.3	52.5°	532.5	197.3	153.6	116.6	90.6	88.1	81.1	76.6	75.4	75.4
1742.5	55°	438.2	165.1	129.7	103.4	83.6	79.1	74.1	72.1	70.8	70.0
1607.0	57.5°	356.2	135.5	104.2	91.8	77.0	71.2	69.6	67.1	65.1	63.8
1493.7	60°	292.4	106.7	86.1	81.5	70.4	65.1	64.7	61.4	56.0	55.2
1400.3	62.5°	225.7	78.2	72.5	70.8	63.8	59.3	58.5	51.9	43.7	42.0
1267.6	65°	159.4	61.0	58.5	62.2	56.8	52.7	50.7	40.8	32.1	30.9
1060.9	67.5°	112.0	51.1	46.1	54.4	49.4	44.1	42.8	34.6	26.8	25.9
802.3	70°	79.9	41.6	37.9	46.5	39.5	38.7	36.2	28.8	21.8	21.0
397.0	72.5°	56.4	31.7	29.2	40.4	27.2	33.4	29.7	22.2	16.5	15.6
135.1	75°	41.6	22.7	20.6	23.5	19.8	25.1	21.0	14.8	10.3	9.9
61.0	77.5°	30.5	14.4	12.4	11.5	11.5	15.6	11.5	6.2	4.5	4.1
30.9	80°	21.4	6.6	5.8	4.9	4.5	3.7	1.6	0.8	0.4	0.4
10.7	82.5°	12.8	2.9	2.9	2.1	1.2	0.0	0.0	0.0	0.0	0.0
4.1	85°	2.9	1.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.6	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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