

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: P946239

Luminaire Tested: **GALN-SB1D-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946239
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-SB1D-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6038 lumens
Efficiency: N/A
Efficacy: 75.9 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

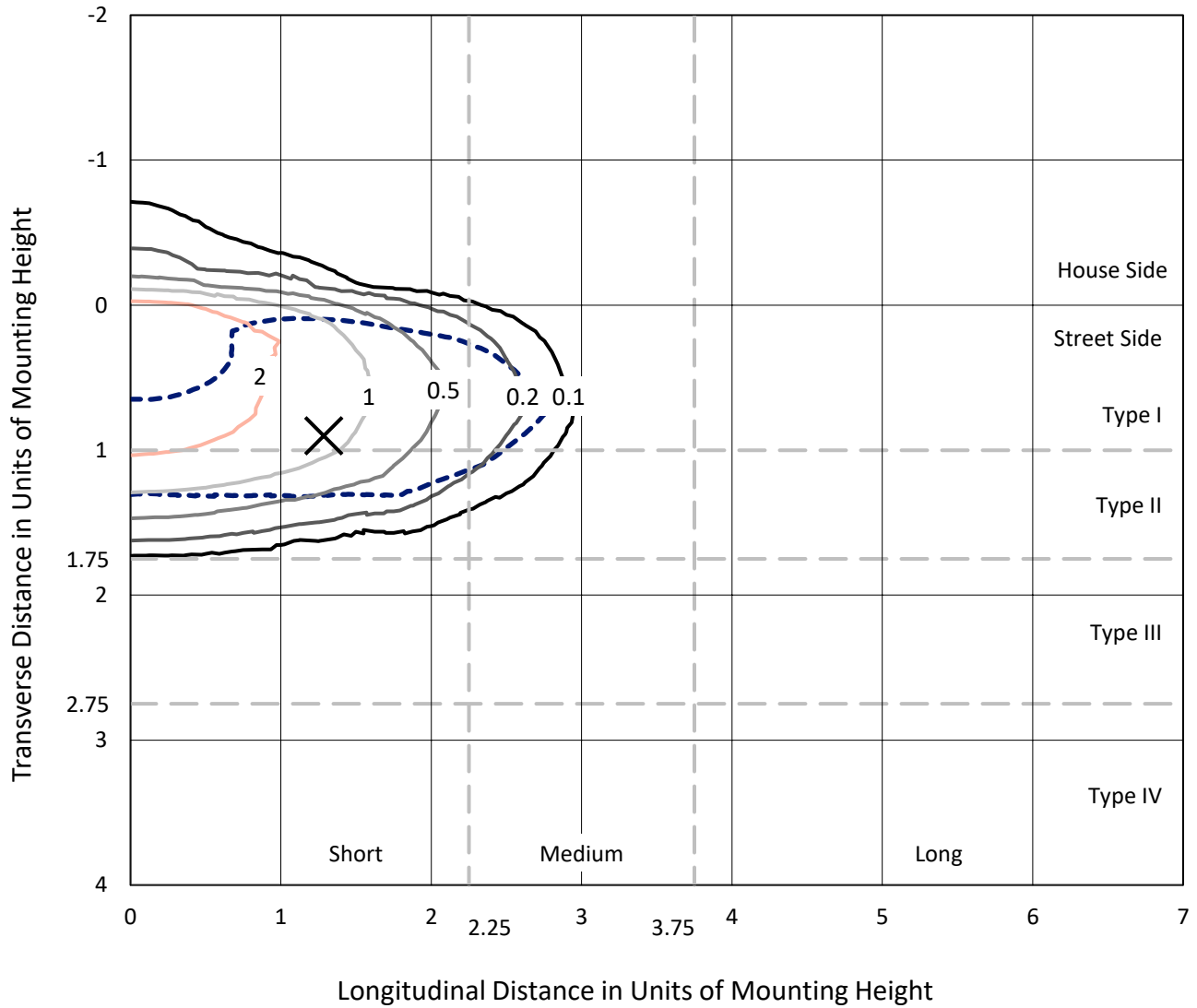
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

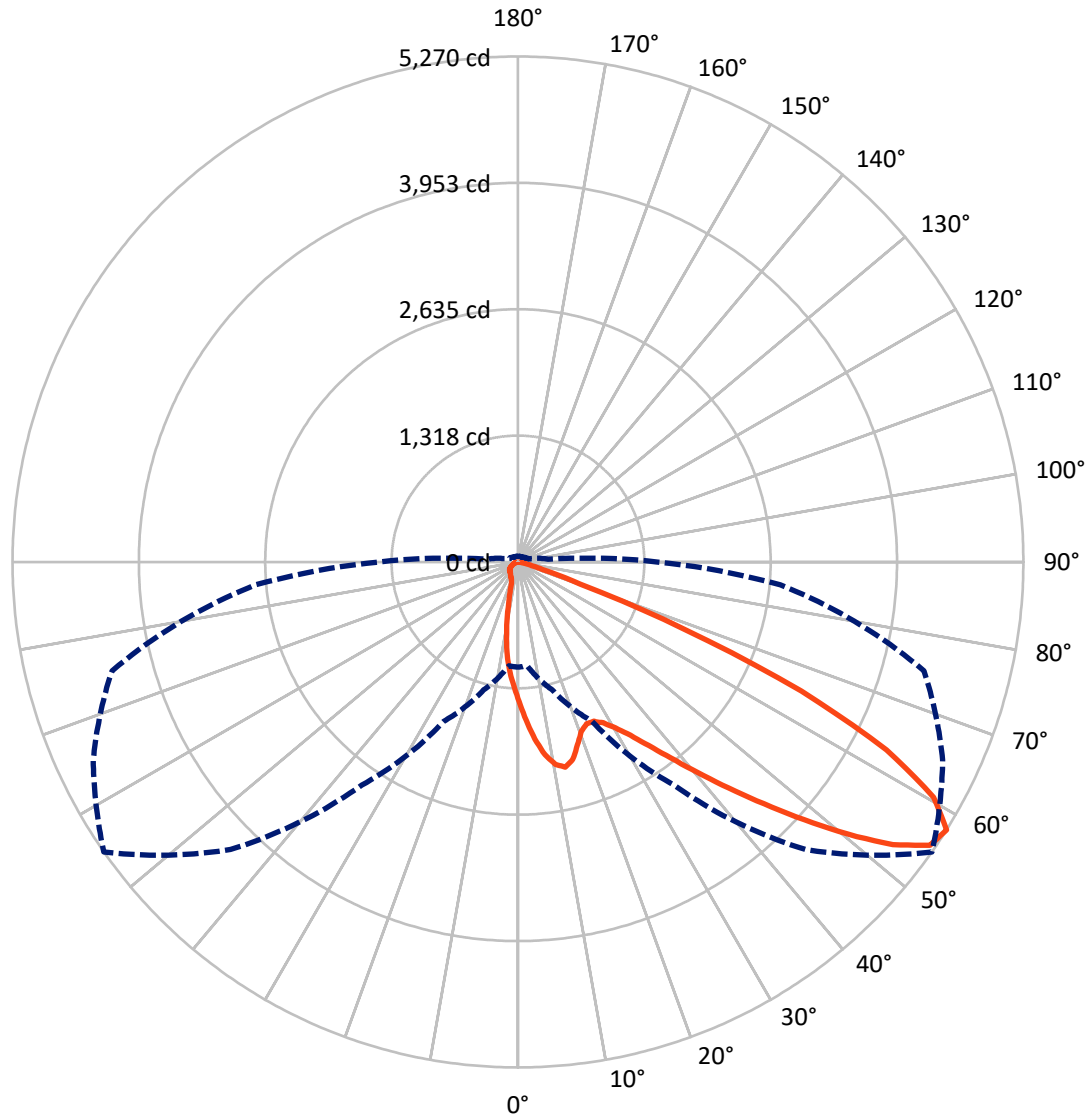
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	471.5	0.0	471.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	5566.5	0.0	5566.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	6038.0	0.0	6038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	2.2
10°-20°	327.0	5.4
20°-30°	523.2	8.7
30°-40°	885.6	14.7
40°-50°	1453.9	24.1
50°-60°	1598.0	26.5
60°-70°	916.6	15.2
70°-80°	187.3	3.1
80°-90°	11.1	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°	6038.0	100.0
0°-180°	6038.0	100.0

Coefficient of Utilization



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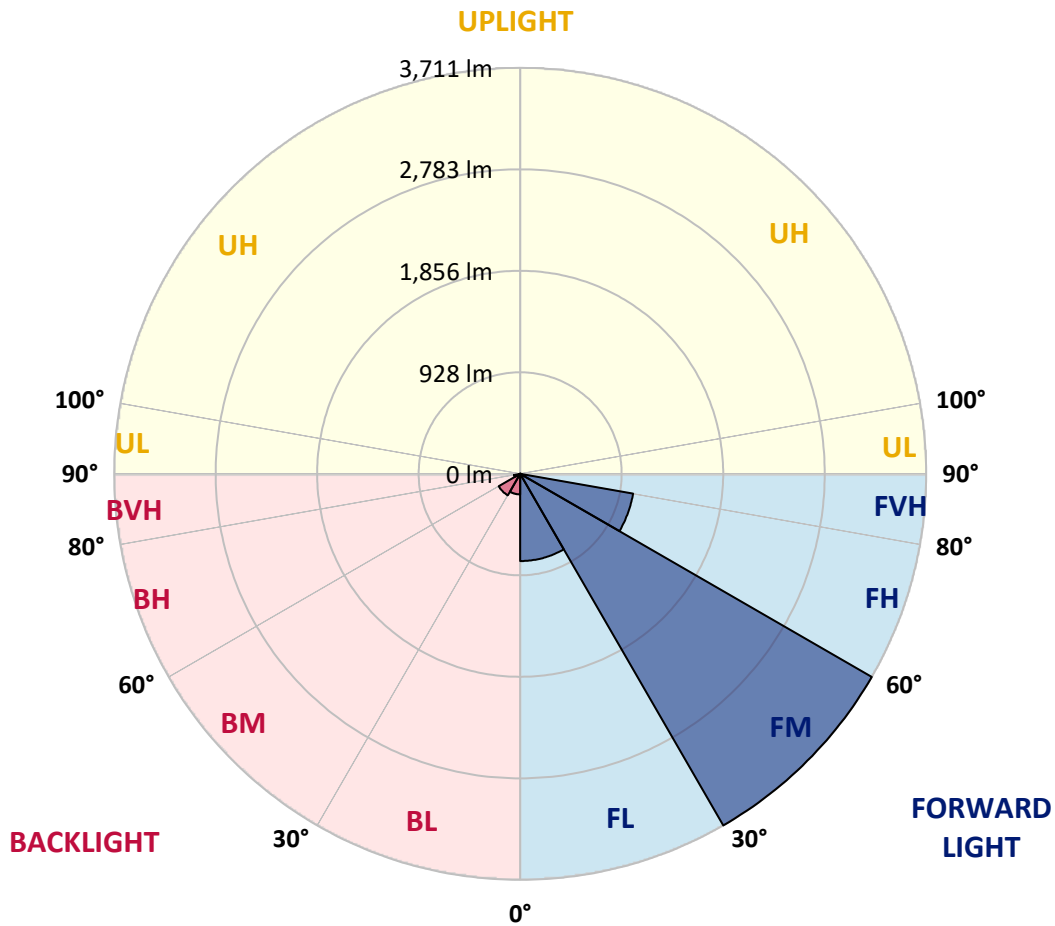
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.4	13.2			
FM (30°-60°)	3711.0	61.5			
FH (60°-80°)	1047.8	17.4			G1/1800
FVH (80°-90°)	10.3	0.2			G1/100
BL (0°-30°)	188.3	3.1	B1/500		
BM (30°-60°)	226.5	3.8	B1/1000		
BH (60°-80°)	56.1	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°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
2.5°	1805.4	1782.6	1779.3	1774.8	1731.6	1699.2	1652.3	1601.0	1543.2	1484.4
5°	2085.7	2067.8	2064.5	2043.6	1994.5	1939.4	1856.0	1750.6	1643.0	1516.4
7.5°	2140.1	2136.7	2152.0	2151.2	2144.5	2101.0	2030.6	1905.1	1743.6	1555.9
10°	1897.7	1906.3	1951.7	1991.5	2099.1	2161.7	2146.4	2042.9	1847.1	1601.0
12.5°	1676.9	1666.9	1699.2	1744.3	1869.4	2055.6	2194.4	2157.9	1965.5	1652.0
15°	1538.4	1534.3	1552.6	1573.4	1668.7	1856.4	2138.6	2251.4	2079.4	1712.3
17.5°	1494.1	1490.8	1496.3	1501.5	1563.4	1708.6	2005.7	2308.7	2188.5	1781.2
20°	1530.2	1525.7	1525.0	1520.9	1546.6	1645.6	1885.4	2312.8	2286.4	1843.7
22.5°	1635.6	1630.4	1612.1	1595.7	1598.0	1654.2	1831.8	2271.9	2360.1	1902.2
25°	1826.6	1818.0	1780.0	1724.9	1689.9	1713.8	1840.0	2217.9	2430.5	1948.0
27.5°	2065.6	2054.4	2005.7	1923.8	1843.7	1814.7	1899.2	2180.7	2488.9	1983.0
30°	2299.8	2285.3	2237.2	2173.6	2056.7	1965.1	2006.0	2197.0	2558.6	2019.4
32.5°	2552.6	2538.8	2475.2	2396.2	2299.4	2176.2	2152.4	2277.1	2643.8	2070.4
35°	2872.4	2850.8	2760.3	2652.7	2550.0	2425.3	2350.4	2415.2	2757.4	2148.3
37.5°	3236.5	3207.5	3110.0	2961.4	2827.4	2687.7	2591.7	2605.1	2923.8	2252.5
40°	3579.8	3553.4	3463.3	3323.3	3155.0	2985.6	2883.2	2853.4	3153.5	2379.5
42.5°	3785.7	3761.9	3723.9	3664.7	3522.8	3350.1	3220.9	3156.5	3425.3	2531.4
45°	3797.2	3776.4	3827.4	3896.3	3868.4	3753.3	3595.8	3477.8	3698.2	2674.0
47.5°	3612.6	3598.4	3753.3	3993.8	4113.7	4162.1	4016.9	3772.3	3923.5	2776.4
50°	3109.2	3104.0	3422.7	3864.3	4207.2	4520.3	4461.1	4046.3	4098.1	2829.2
52.5°	2695.9	2676.9	2862.7	3449.5	4071.3	4708.7	4895.2	4315.1	4220.2	2839.3
55°	2044.8	2028.0	2261.1	2755.5	3633.1	4641.7	5212.8	4592.5	4307.7	2813.6
57.5°	1096.8	1086.4	1380.9	1834.0	2840.0	4239.6	5270.1	4885.9	4381.4	2745.5
60°	427.0	425.2	535.4	889.8	1726.1	3449.1	4980.8	5062.0	4427.6	2661.7
62.5°	258.4	264.0	281.8	399.5	762.5	2142.7	4314.0	4861.7	4458.5	2585.0
65°	213.7	214.1	216.3	274.4	365.2	896.5	3247.7	4202.7	4382.2	2448.3
67.5°	183.2	186.5	195.1	217.8	257.6	393.2	1869.8	3255.5	3917.9	2130.4
70°	144.5	148.9	159.7	179.1	198.8	246.1	691.0	2166.1	2993.0	1605.8
72.5°	121.7	121.4	127.0	145.6	157.9	173.1	265.8	1213.7	1739.5	766.6
75°	94.2	97.9	105.0	121.7	129.2	125.5	144.1	443.4	623.3	232.3
77.5°	73.7	76.7	83.0	99.4	106.9	89.0	83.0	158.6	200.3	83.4
80°	33.1	35.7	56.6	73.3	87.1	61.4	45.1	81.2	89.0	38.0
82.5°	6.0	10.1	33.1	38.7	44.7	39.8	23.5	42.1	43.6	15.3
85°	0.4	0.7	11.5	14.1	17.9	13.0	7.1	16.8	14.5	5.2
87.5°	0.0	0.0	0.0	0.4	0.4	1.9	2.2	3.0	2.2	1.9
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°
1455.0	0°	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0	1455.0
1458.4	2.5°	1431.6	1378.7	1327.3	1285.2	1260.7	1219.0	1191.4	1186.9	1175.4	1185.5
1462.1	5°	1404.0	1309.4	1213.7	1128.1	1057.7	966.9	899.1	870.5	845.5	854.1
1471.8	7.5°	1391.0	1241.7	1092.7	946.4	796.0	650.8	542.8	497.8	463.5	468.4
1482.6	10°	1373.5	1171.3	937.9	714.5	513.1	369.7	295.2	267.7	252.4	252.8
1498.6	12.5°	1360.1	1087.2	758.0	484.4	312.4	236.0	213.0	206.3	201.8	202.2
1522.8	15°	1353.4	988.1	580.4	322.8	223.4	199.9	194.3	191.4	188.4	188.0
1549.6	17.5°	1342.2	877.9	424.8	235.7	195.5	187.3	182.4	179.1	175.4	174.6
1572.7	20°	1325.4	752.8	310.5	199.2	183.2	176.8	170.1	165.7	161.2	160.5
1587.2	22.5°	1294.5	620.7	238.7	184.3	174.2	167.2	159.0	153.8	149.3	148.6
1580.1	25°	1237.2	496.7	201.1	175.0	166.4	157.9	148.9	141.9	137.8	137.0
1564.8	27.5°	1164.6	390.2	182.4	166.4	156.4	148.6	138.5	131.8	128.1	127.3
1544.7	30°	1079.0	300.5	171.6	156.7	144.5	137.8	128.8	123.2	121.0	121.0
1530.6	32.5°	986.6	240.1	167.2	147.1	134.0	126.6	119.5	117.3	116.5	116.2
1538.4	35°	899.9	208.5	164.9	139.2	124.7	117.7	114.7	115.0	116.5	116.5
1562.6	37.5°	822.8	198.4	163.8	133.7	116.5	110.2	112.1	115.4	113.9	113.9
1605.1	40°	753.2	199.6	163.1	129.6	109.8	106.1	109.8	107.2	103.5	103.1
1656.8	42.5°	700.0	208.9	161.6	126.2	105.7	103.1	101.6	97.5	97.2	97.9
1710.4	45°	661.2	217.1	161.2	124.7	101.3	96.4	94.6	90.5	97.9	99.8
1732.4	47.5°	615.4	217.1	161.2	119.5	93.8	92.0	89.0	84.5	92.0	93.8
1711.5	50°	556.2	203.3	154.9	113.6	87.9	86.7	81.5	76.0	74.5	75.6
1662.8	52.5°	481.4	178.3	138.9	105.4	81.9	79.7	73.3	69.3	68.1	68.1
1575.3	55°	396.1	149.3	117.3	93.5	75.6	71.5	67.0	65.2	64.0	63.3
1452.8	57.5°	322.1	122.5	94.2	83.0	69.6	64.4	62.9	60.7	58.8	57.7
1350.4	60°	264.3	96.4	77.8	73.7	63.7	58.8	58.5	55.5	50.6	49.9
1265.9	62.5°	204.0	70.7	65.5	64.0	57.7	53.6	52.9	46.9	39.5	38.0
1146.0	65°	144.1	55.1	52.9	56.2	51.4	47.7	45.8	36.9	29.0	27.9
959.1	67.5°	101.3	46.2	41.7	49.1	44.7	39.8	38.7	31.3	24.2	23.5
725.3	70°	72.2	37.6	34.3	42.1	35.7	35.0	32.8	26.1	19.7	19.0
358.9	72.5°	51.0	28.7	26.4	36.5	24.6	30.2	26.8	20.1	14.9	14.1
122.1	75°	37.6	20.5	18.6	21.2	17.9	22.7	19.0	13.4	9.3	8.9
55.1	77.5°	27.6	13.0	11.2	10.4	10.4	14.1	10.4	5.6	4.1	3.7
27.9	80°	19.4	6.0	5.2	4.5	4.1	3.4	1.5	0.7	0.4	0.4
9.7	82.5°	11.5	2.6	2.6	1.9	1.1	0.0	0.0	0.0	0.0	0.0
3.7	85°	2.6	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
1.5	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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