

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: P946407

Luminaire Tested: **GALN-SB2A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946407
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 6651 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

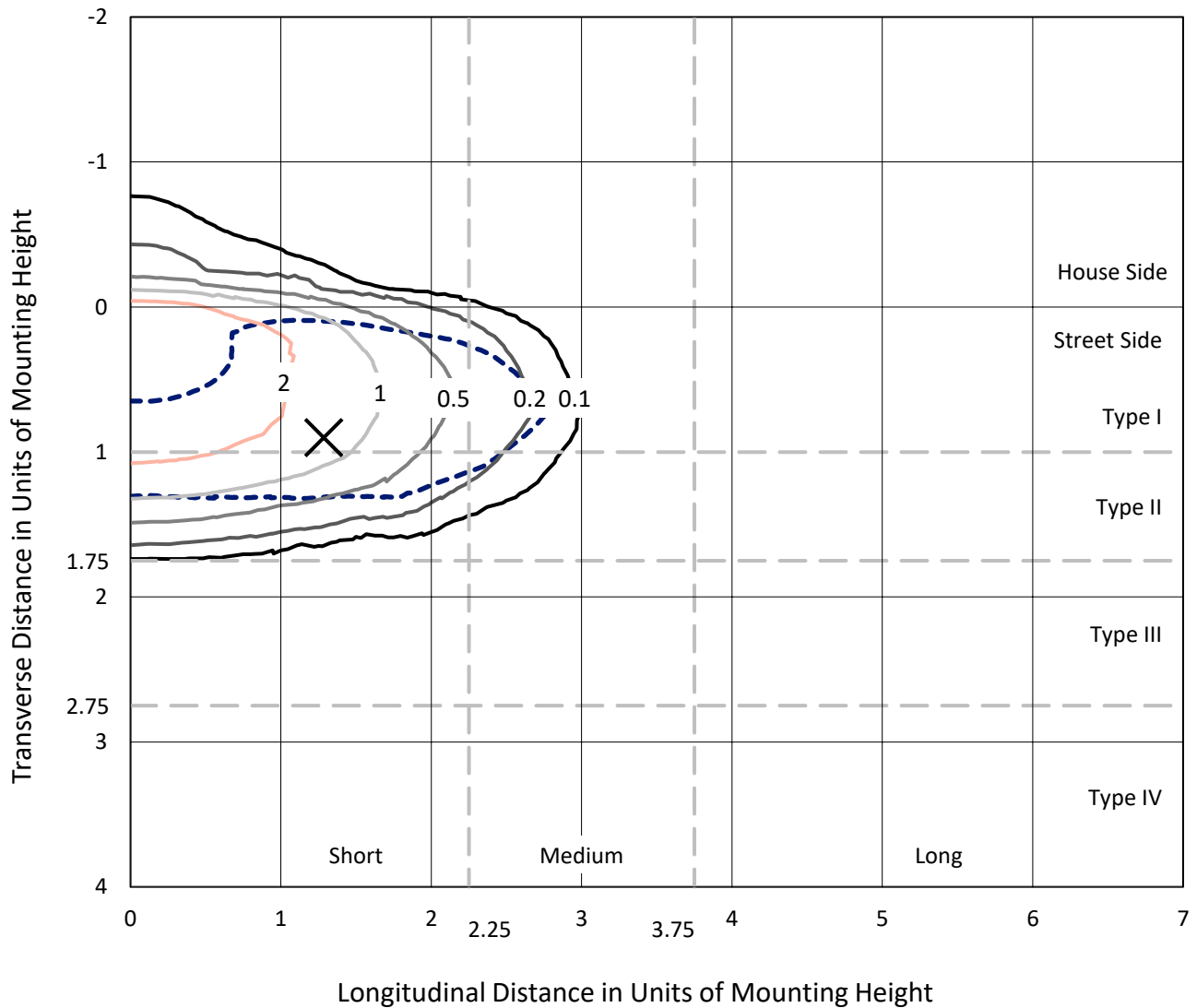
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

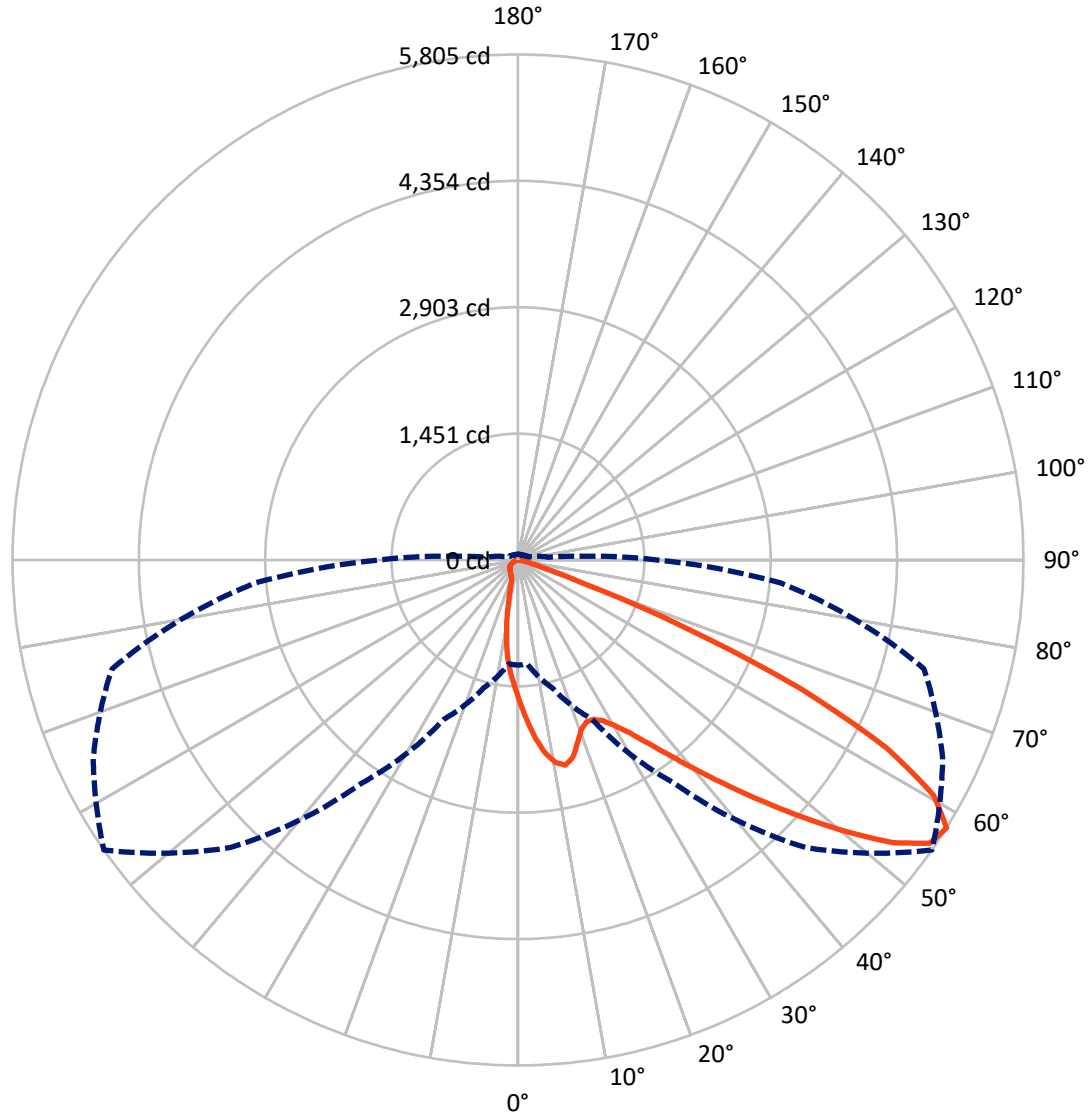
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	519.4	0.0	519.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6131.6	0.0	6131.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	6651.0	0.0	6651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	2.2
10°-20°	360.2	5.4
20°-30°	576.3	8.7
30°-40°	975.5	14.7
40°-50°	1601.5	24.1
50°-60°	1760.2	26.5
60°-70°	1009.6	15.2
70°-80°	206.3	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°	6651.0	100.0
0°-180°	6651.0	100.0

Coefficient of Utilization



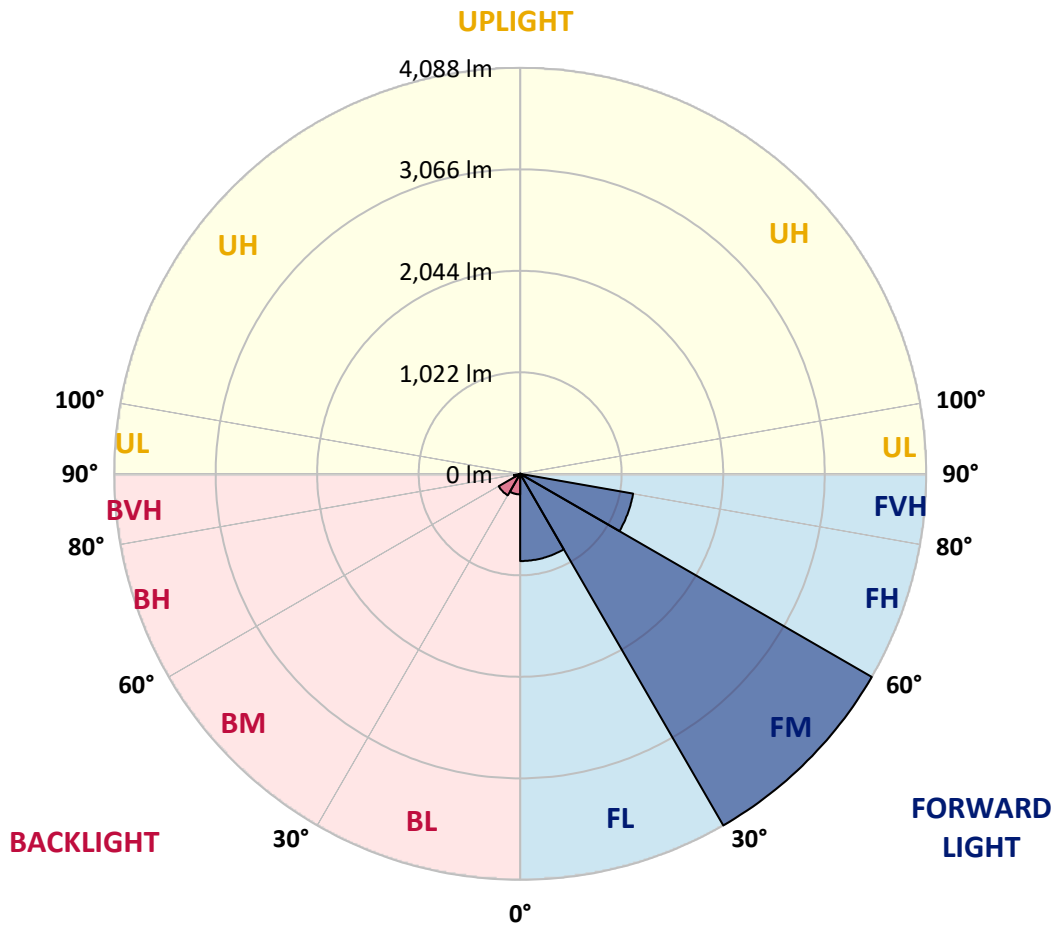
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.3	13.2			
FM (30°-60°)	4087.8	61.5			
FH (60°-80°)	1154.2	17.4			G1/1800
FVH (80°-90°)	11.4	0.2			G1/100
BL (0°-30°)	207.4	3.1	B1/500		
BM (30°-60°)	249.5	3.8	B1/1000		
BH (60°-80°)	61.8	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°	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7
2.5°	1988.6	1963.6	1959.9	1955.0	1907.4	1871.8	1820.1	1763.5	1699.9	1635.1
5°	2297.5	2277.8	2274.1	2251.1	2197.0	2136.3	2044.4	1928.4	1809.8	1670.4
7.5°	2357.3	2353.6	2370.5	2369.6	2362.3	2314.3	2236.8	2098.6	1920.6	1713.9
10°	2090.4	2099.8	2149.8	2193.7	2312.2	2381.1	2364.3	2250.3	2034.6	1763.5
12.5°	1847.2	1836.1	1871.8	1921.4	2059.2	2264.2	2417.2	2377.0	2165.0	1819.7
15°	1694.6	1690.1	1710.2	1733.1	1838.1	2044.8	2355.7	2480.0	2290.5	1886.1
17.5°	1645.8	1642.1	1648.2	1654.0	1722.1	1882.0	2209.3	2543.1	2410.7	1962.0
20°	1685.6	1680.6	1679.8	1675.3	1703.6	1812.7	2076.8	2547.6	2518.5	2030.9
22.5°	1801.6	1795.9	1775.8	1757.8	1760.2	1822.1	2017.8	2502.5	2599.7	2095.3
25°	2012.0	2002.6	1960.8	1900.1	1861.5	1887.8	2026.8	2443.1	2677.2	2145.7
27.5°	2275.3	2263.0	2209.3	2119.1	2030.9	1998.9	2092.0	2402.0	2741.6	2184.3
30°	2533.3	2517.3	2464.4	2394.2	2265.5	2164.6	2209.7	2420.1	2818.3	2224.5
32.5°	2811.7	2796.6	2726.4	2639.5	2532.9	2397.1	2370.9	2508.3	2912.2	2280.6
35°	3164.0	3140.2	3040.6	2922.1	2808.9	2671.5	2589.1	2660.4	3037.3	2366.4
37.5°	3565.1	3533.1	3425.7	3262.0	3114.4	2960.6	2854.8	2869.6	3220.6	2481.2
40°	3943.2	3914.1	3814.9	3660.7	3475.3	3288.7	3175.9	3143.1	3473.7	2621.0
42.5°	4170.0	4143.8	4102.0	4036.8	3880.5	3690.2	3547.9	3476.9	3773.1	2788.4
45°	4182.8	4159.8	4216.0	4291.8	4261.1	4134.4	3960.9	3830.9	4073.7	2945.4
47.5°	3979.3	3963.8	4134.4	4399.3	4531.4	4584.7	4424.7	4155.3	4321.8	3058.2
50°	3424.9	3419.1	3770.2	4256.6	4634.3	4979.2	4914.0	4457.1	4514.1	3116.5
52.5°	2969.6	2948.7	3153.4	3799.7	4484.6	5186.7	5392.2	4753.2	4648.6	3127.5
55°	2252.3	2233.9	2490.6	3035.3	4001.9	5112.9	5742.0	5058.8	4745.0	3099.2
57.5°	1208.2	1196.7	1521.1	2020.2	3128.4	4670.0	5805.2	5381.9	4826.2	3024.2
60°	470.4	468.4	589.7	980.2	1901.3	3799.3	5486.5	5575.9	4877.1	2931.9
62.5°	284.6	290.8	310.5	440.1	839.9	2360.2	4752.0	5355.3	4911.1	2847.4
65°	235.4	235.8	238.3	302.3	402.3	987.6	3577.4	4629.4	4827.0	2696.9
67.5°	201.8	205.5	214.9	239.9	283.8	433.1	2059.6	3586.0	4315.6	2346.7
70°	159.1	164.0	175.9	197.3	219.0	271.1	761.2	2386.0	3296.9	1768.8
72.5°	134.1	133.7	139.8	160.4	173.9	190.7	292.8	1337.0	1916.1	844.4
75°	103.8	107.9	115.7	134.1	142.3	138.2	158.7	488.4	686.5	255.9
77.5°	81.2	84.5	91.5	109.5	117.7	98.0	91.5	174.7	220.6	91.9
80°	36.5	39.4	62.3	80.8	96.0	67.7	49.6	89.4	98.0	41.8
82.5°	6.6	11.1	36.5	42.7	49.2	43.9	25.8	46.3	48.0	16.8
85°	0.4	0.8	12.7	15.6	19.7	14.4	7.8	18.5	16.0	5.7
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°
1602.7	0°	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7
1606.4	2.5°	1576.9	1518.7	1462.1	1415.7	1388.6	1342.7	1312.4	1307.4	1294.7	1305.8
1610.5	5°	1546.5	1442.4	1337.0	1242.6	1165.1	1065.1	990.4	958.8	931.4	940.8
1621.2	7.5°	1532.2	1367.7	1203.7	1042.5	876.8	716.9	597.9	548.3	510.6	515.9
1633.1	10°	1512.9	1290.2	1033.1	787.0	565.1	407.2	325.2	294.9	278.1	278.5
1650.7	12.5°	1498.1	1197.5	835.0	533.6	344.1	260.0	234.6	227.2	222.3	222.7
1677.4	15°	1490.8	1088.4	639.4	355.6	246.1	220.2	214.1	210.8	207.5	207.1
1706.9	17.5°	1478.5	967.0	467.9	259.6	215.3	206.3	201.0	197.3	193.2	192.3
1732.3	20°	1460.0	829.3	342.0	219.4	201.8	194.8	187.4	182.5	177.6	176.8
1748.3	22.5°	1426.0	683.7	262.9	203.0	191.9	184.1	175.1	169.4	164.5	163.6
1740.5	25°	1362.8	547.1	221.5	192.8	183.3	173.9	164.0	156.3	151.7	150.9
1723.7	27.5°	1282.8	429.8	201.0	183.3	172.2	163.6	152.6	145.2	141.1	140.3
1701.6	30°	1188.5	331.0	189.1	172.7	159.1	151.7	141.9	135.7	133.3	133.3
1686.0	32.5°	1086.8	264.5	184.1	162.0	147.6	139.4	131.6	129.2	128.4	128.0
1694.6	35°	991.2	229.7	181.7	153.4	137.4	129.6	126.3	126.7	128.4	128.4
1721.3	37.5°	906.4	218.6	180.5	147.2	128.4	121.4	123.4	127.1	125.5	125.5
1768.0	40°	829.7	219.8	179.6	142.7	121.0	116.9	121.0	118.1	114.0	113.6
1825.0	42.5°	771.0	230.1	178.0	139.0	116.5	113.6	112.0	107.4	107.0	107.9
1884.1	45°	728.4	239.1	177.6	137.4	111.6	106.2	104.2	99.7	107.9	109.9
1908.3	47.5°	677.9	239.1	177.6	131.6	103.3	101.3	98.0	93.1	101.3	103.3
1885.3	50°	612.7	223.9	170.6	125.1	96.8	95.6	89.8	83.7	82.0	83.3
1831.6	52.5°	530.3	196.4	153.0	116.1	90.2	87.8	80.8	76.3	75.1	75.1
1735.2	55°	436.4	164.5	129.2	102.9	83.3	78.7	73.8	71.8	70.5	69.7
1600.3	57.5°	354.7	134.9	103.8	91.5	76.7	70.9	69.3	66.8	64.8	63.6
1487.5	60°	291.2	106.2	85.7	81.2	70.1	64.8	64.4	61.1	55.8	55.0
1394.4	62.5°	224.7	77.9	72.2	70.5	63.6	59.1	58.2	51.7	43.5	41.8
1262.3	65°	158.7	60.7	58.2	61.9	56.6	52.5	50.4	40.6	32.0	30.8
1056.5	67.5°	111.6	50.9	45.9	54.1	49.2	43.9	42.7	34.4	26.7	25.8
798.9	70°	79.6	41.4	37.7	46.3	39.4	38.6	36.1	28.7	21.7	20.9
395.4	72.5°	56.2	31.6	29.1	40.2	27.1	33.2	29.5	22.1	16.4	15.6
134.5	75°	41.4	22.6	20.5	23.4	19.7	25.0	20.9	14.8	10.3	9.8
60.7	77.5°	30.3	14.4	12.3	11.5	11.5	15.6	11.5	6.2	4.5	4.1
30.8	80°	21.3	6.6	5.7	4.9	4.5	3.7	1.6	0.8	0.4	0.4
10.7	82.5°	12.7	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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