

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: P946554

Luminaire Tested: **GALN-SB2A-935-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946554
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-935-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 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: 5321 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

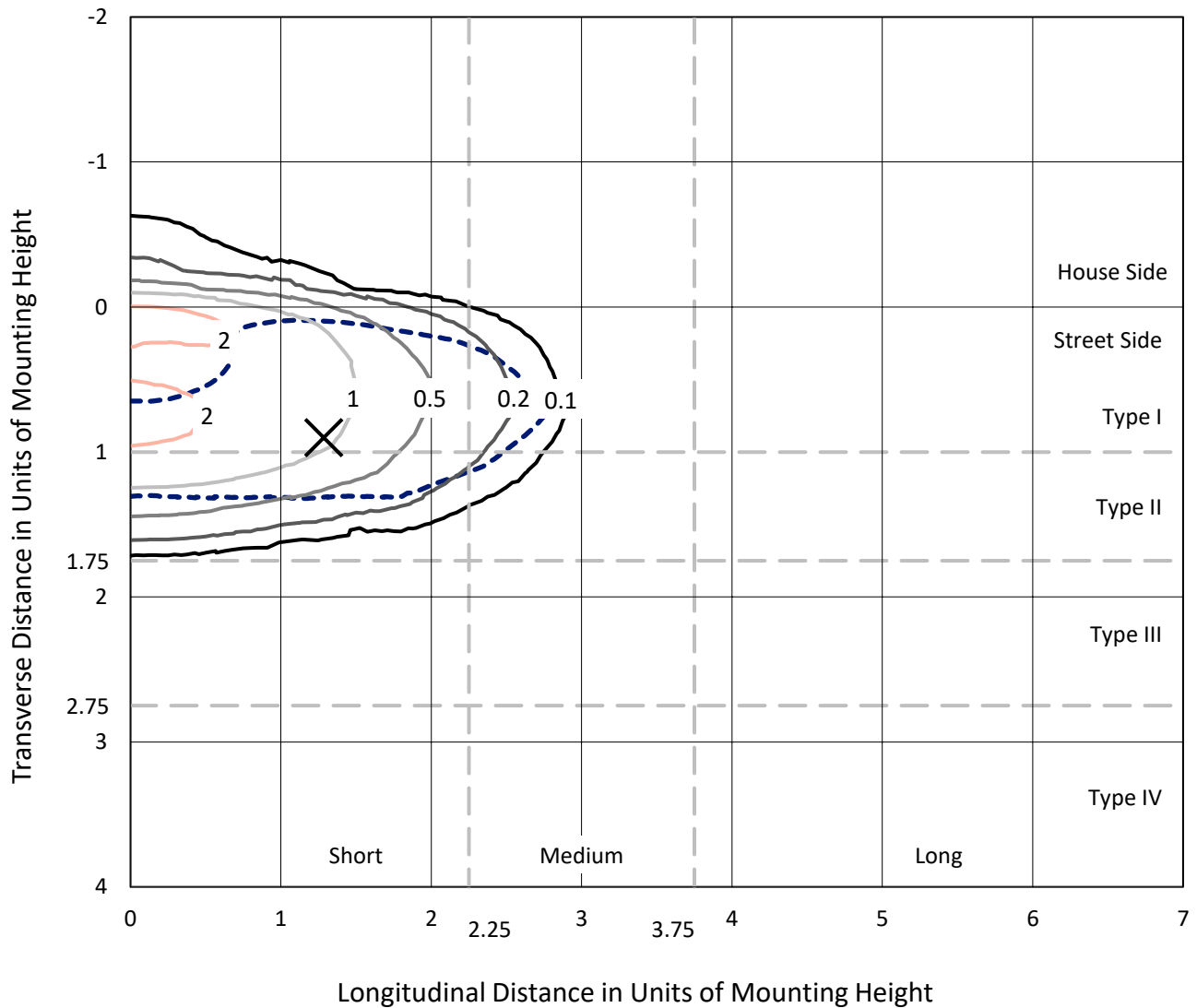
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

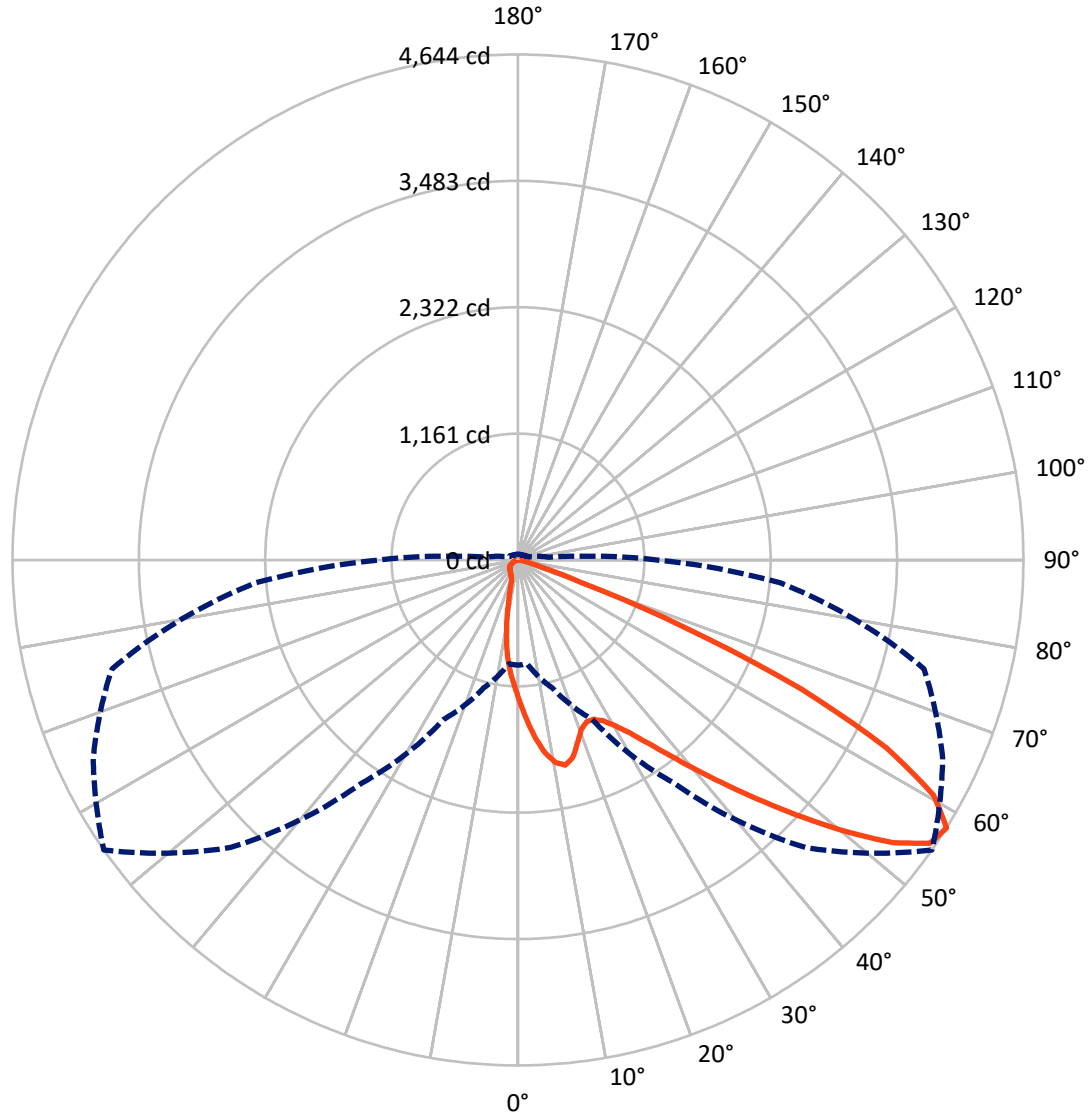
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	415.6	0.0	415.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	4905.5	0.0	4905.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	5321.0	0.0	5321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	2.2
10°-20°	288.2	5.4
20°-30°	461.1	8.7
30°-40°	780.4	14.7
40°-50°	1281.3	24.1
50°-60°	1408.2	26.5
60°-70°	807.7	15.2
70°-80°	165.1	3.1
80°-90°	9.7	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°	5321.0	100.0
0°-180°	5321.0	100.0

Coefficient of Utilization



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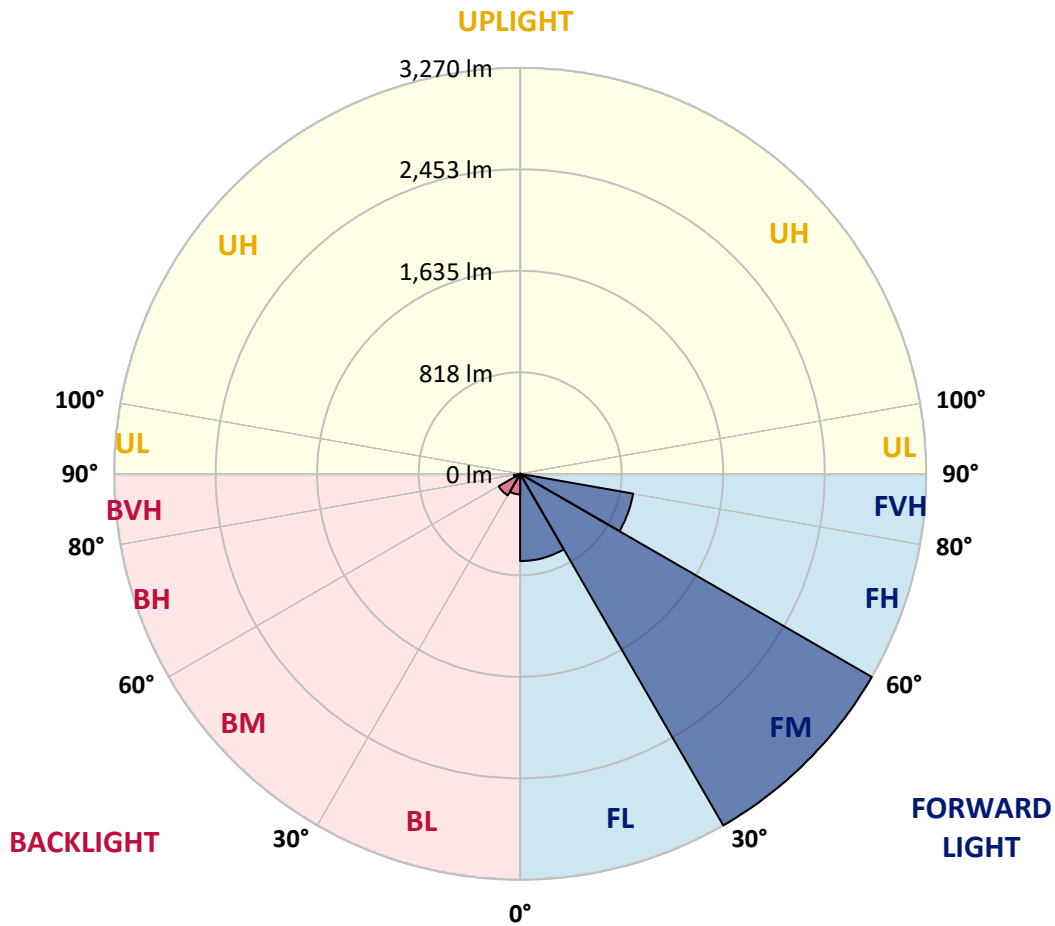
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.7	13.2			
FM (30°-60°)	3270.3	61.5			
FH (60°-80°)	923.4	17.4			G1/1800
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	165.9	3.1	B1/500		
BM (30°-60°)	199.6	3.8	B0/220		
BH (60°-80°)	49.4	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°	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2
2.5°	1591.0	1571.0	1568.0	1564.1	1526.0	1497.5	1456.1	1410.8	1360.0	1308.2
5°	1838.0	1822.3	1819.3	1801.0	1757.7	1709.1	1635.6	1542.7	1447.9	1336.4
7.5°	1885.9	1883.0	1896.4	1895.8	1889.9	1851.5	1789.5	1678.9	1536.5	1371.1
10°	1672.3	1679.9	1719.9	1755.0	1849.8	1905.0	1891.5	1800.3	1627.7	1410.8
12.5°	1477.8	1468.9	1497.5	1537.2	1647.4	1811.5	1933.8	1901.7	1732.1	1455.8
15°	1355.7	1352.1	1368.2	1386.6	1470.6	1635.9	1884.6	1984.0	1832.5	1508.9
17.5°	1316.7	1313.7	1318.6	1323.2	1377.7	1505.7	1767.5	2034.6	1928.6	1569.6
20°	1348.5	1344.6	1343.9	1340.3	1362.9	1450.2	1661.5	2038.2	2014.9	1624.8
22.5°	1441.4	1436.8	1420.7	1406.3	1408.2	1457.8	1614.3	2002.1	2079.9	1676.3
25°	1609.7	1602.1	1568.7	1520.1	1489.3	1510.3	1621.5	1954.5	2141.9	1716.6
27.5°	1820.3	1810.5	1767.5	1695.3	1624.8	1599.2	1673.7	1921.7	2193.4	1747.5
30°	2026.7	2013.9	1971.6	1915.5	1812.4	1731.7	1767.8	1936.1	2254.7	1779.6
32.5°	2249.5	2237.3	2181.2	2111.7	2026.4	1917.8	1896.8	2006.7	2329.9	1824.6
35°	2531.3	2512.3	2432.6	2337.7	2247.2	2137.3	2071.3	2128.4	2429.9	1893.2
37.5°	2852.2	2826.6	2740.7	2609.7	2491.6	2368.6	2283.9	2295.7	2576.6	1985.0
40°	3154.7	3131.4	3052.0	2928.7	2780.4	2631.1	2540.8	2514.6	2779.0	2096.9
42.5°	3336.2	3315.2	3281.7	3229.5	3104.5	2952.3	2838.4	2781.7	3018.6	2230.8
45°	3346.3	3328.0	3372.9	3433.6	3409.0	3307.6	3168.8	3064.8	3259.1	2356.4
47.5°	3183.6	3171.1	3307.6	3519.6	3625.2	3667.9	3539.9	3324.3	3457.6	2446.7
50°	2740.0	2735.4	3016.3	3405.4	3707.6	3983.5	3931.3	3565.8	3611.4	2493.3
52.5°	2375.8	2359.1	2522.8	3039.9	3587.8	4149.5	4313.9	3802.7	3719.1	2502.1
55°	1801.9	1787.2	1992.6	2428.3	3201.6	4090.5	4593.8	4047.2	3796.2	2479.5
57.5°	966.6	957.4	1216.9	1616.2	2502.8	3736.1	4644.3	4305.7	3861.1	2419.4
60°	376.3	374.7	471.8	784.2	1521.1	3039.6	4389.4	4460.9	3901.8	2345.6
62.5°	227.7	232.6	248.4	352.1	672.0	1888.2	3801.7	4284.4	3929.0	2278.0
65°	188.3	188.7	190.6	241.8	321.9	790.1	2862.0	3703.6	3861.8	2157.6
67.5°	161.4	164.4	171.9	191.9	227.0	346.5	1647.7	2868.9	3452.6	1877.4
70°	127.3	131.2	140.8	157.8	175.2	216.9	609.0	1908.9	2637.6	1415.1
72.5°	107.3	107.0	111.9	128.3	139.1	152.6	234.3	1069.6	1532.9	675.6
75°	83.0	86.3	92.5	107.3	113.9	110.6	127.0	390.8	549.2	204.7
77.5°	65.0	67.6	73.2	87.6	94.2	78.4	73.2	139.8	176.5	73.5
80°	29.2	31.5	49.9	64.6	76.8	54.1	39.7	71.5	78.4	33.5
82.5°	5.2	8.9	29.2	34.1	39.4	35.1	20.7	37.1	38.4	13.5
85°	0.3	0.7	10.2	12.5	15.7	11.5	6.2	14.8	12.8	4.6
87.5°	0.0	0.0	0.0	0.3	0.3	1.6	2.0	2.6	2.0	1.6
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°
1282.2	0°	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2	1282.2
1285.2	2.5°	1261.6	1215.0	1169.7	1132.6	1111.0	1074.2	1049.9	1046.0	1035.8	1044.7
1288.5	5°	1237.3	1153.9	1069.6	994.2	932.1	852.1	792.4	767.1	745.1	752.7
1297.0	7.5°	1225.8	1094.2	963.0	834.0	701.5	573.5	478.4	438.7	408.5	412.8
1306.5	10°	1210.4	1032.2	826.5	629.6	452.1	325.8	260.2	235.9	222.5	222.8
1320.6	12.5°	1198.6	958.1	668.0	426.9	275.3	208.0	187.7	181.8	177.8	178.2
1341.9	15°	1192.7	870.8	511.5	284.5	196.9	176.2	171.3	168.6	166.0	165.7
1365.6	17.5°	1182.8	773.7	374.4	207.7	172.3	165.0	160.8	157.8	154.5	153.9
1385.9	20°	1168.0	663.4	273.6	175.5	161.4	155.8	149.9	146.0	142.1	141.4
1398.7	22.5°	1140.8	546.9	210.3	162.4	153.6	147.3	140.1	135.5	131.6	130.9
1392.5	25°	1090.3	437.7	177.2	154.2	146.7	139.1	131.2	125.0	121.4	120.7
1379.0	27.5°	1026.3	343.9	160.8	146.7	137.8	130.9	122.1	116.1	112.9	112.2
1361.3	30°	950.8	264.8	151.3	138.1	127.3	121.4	113.5	108.6	106.6	106.6
1348.8	32.5°	869.5	211.6	147.3	129.6	118.1	111.6	105.3	103.4	102.7	102.4
1355.7	35°	793.0	183.7	145.4	122.7	109.9	103.7	101.1	101.4	102.7	102.7
1377.1	37.5°	725.1	174.9	144.4	117.8	102.7	97.1	98.8	101.7	100.4	100.4
1414.5	40°	663.8	175.9	143.7	114.2	96.8	93.5	96.8	94.5	91.2	90.9
1460.1	42.5°	616.8	184.1	142.4	111.2	93.2	90.9	89.6	86.0	85.6	86.3
1507.3	45°	582.7	191.3	142.1	109.9	89.2	85.0	83.3	79.7	86.3	87.9
1526.7	47.5°	542.4	191.3	142.1	105.3	82.7	81.0	78.4	74.5	81.0	82.7
1508.3	50°	490.2	179.1	136.5	100.1	77.4	76.4	71.9	66.9	65.6	66.6
1465.3	52.5°	424.2	157.2	122.4	92.9	72.2	70.2	64.6	61.0	60.0	60.0
1388.2	55°	349.1	131.6	103.4	82.4	66.6	63.0	59.1	57.4	56.4	55.8
1280.3	57.5°	283.8	107.9	83.0	73.2	61.4	56.8	55.4	53.5	51.8	50.9
1190.0	60°	233.0	85.0	68.6	65.0	56.1	51.8	51.5	48.9	44.6	44.0
1115.6	62.5°	179.8	62.3	57.7	56.4	50.9	47.2	46.6	41.3	34.8	33.5
1009.9	65°	127.0	48.6	46.6	49.5	45.3	42.0	40.4	32.5	25.6	24.6
845.2	67.5°	89.2	40.7	36.7	43.3	39.4	35.1	34.1	27.6	21.3	20.7
639.1	70°	63.7	33.1	30.2	37.1	31.5	30.8	28.9	23.0	17.4	16.7
316.3	72.5°	45.0	25.3	23.3	32.2	21.7	26.6	23.6	17.7	13.1	12.5
107.6	75°	33.1	18.0	16.4	18.7	15.7	20.0	16.7	11.8	8.2	7.9
48.6	77.5°	24.3	11.5	9.8	9.2	9.2	12.5	9.2	4.9	3.6	3.3
24.6	80°	17.1	5.2	4.6	3.9	3.6	3.0	1.3	0.7	0.3	0.3
8.5	82.5°	10.2	2.3	2.3	1.6	1.0	0.0	0.0	0.0	0.0	0.0
3.3	85°	2.3	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.3	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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