

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: P947226

Luminaire Tested: **GALN-SB2C-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947226
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-SB2C-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA 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: 7773 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

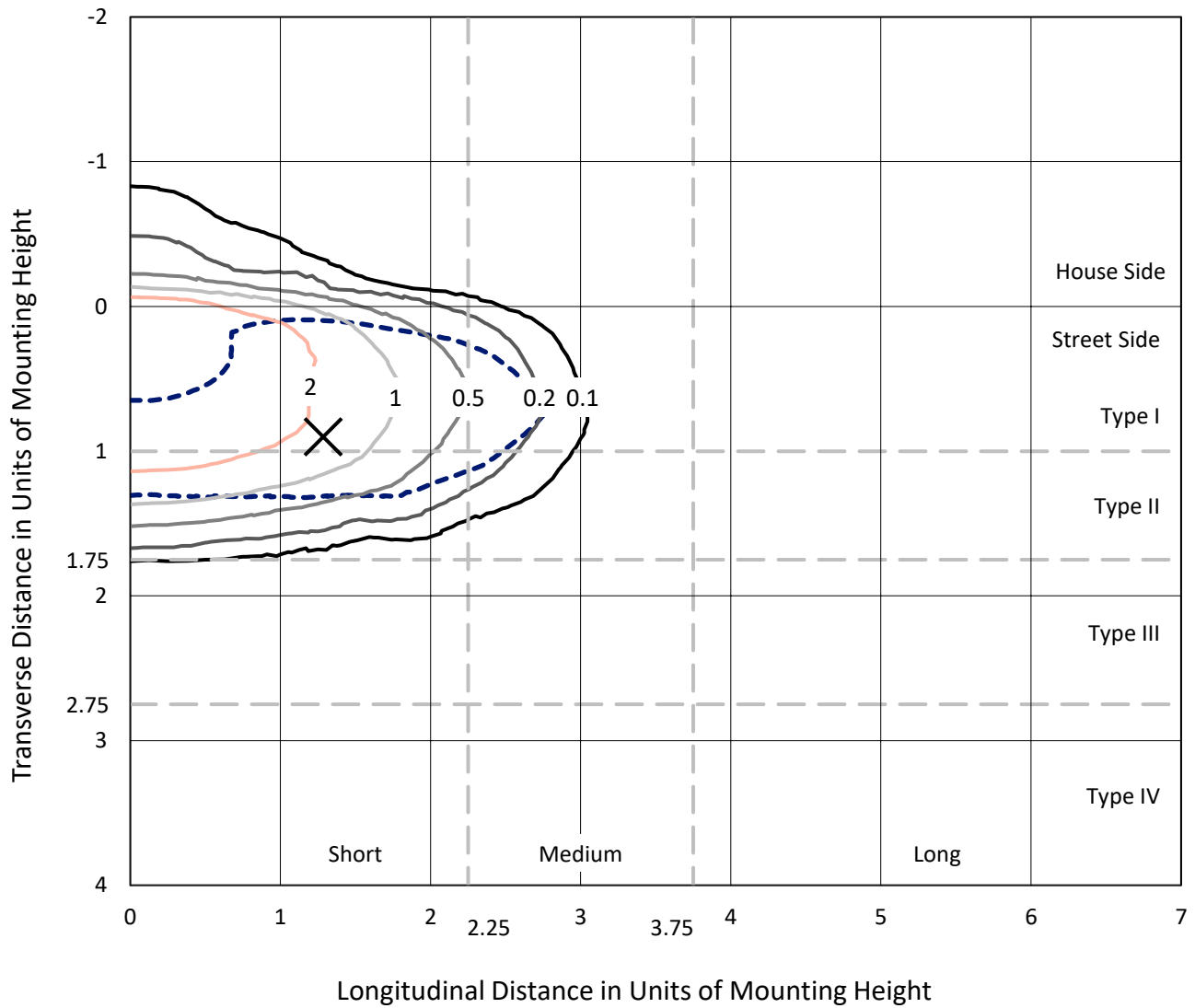
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

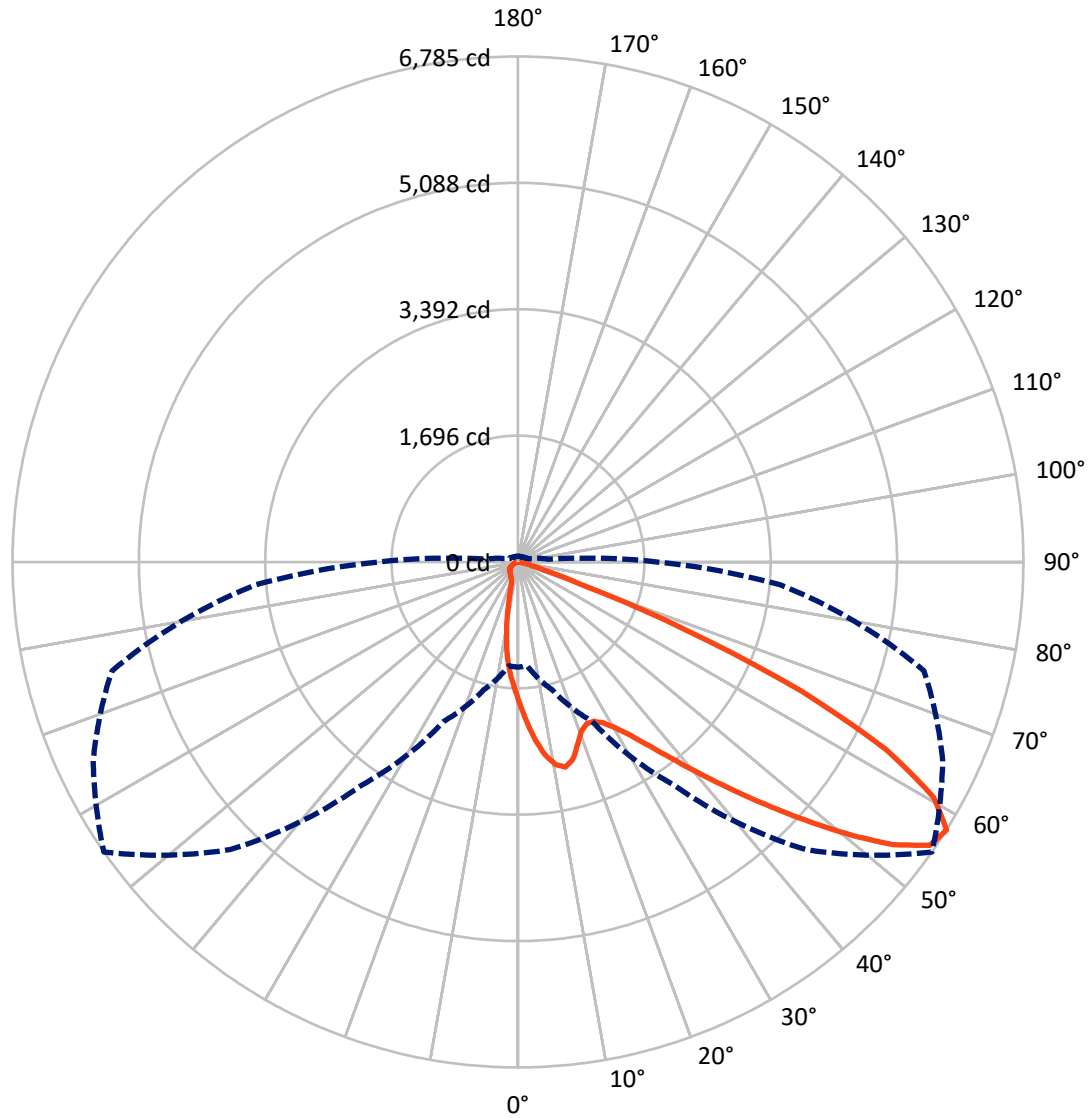
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	607.0	0.0	607.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7166.0	0.0	7166.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	7773.0	0.0	7773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	2.2
10°-20°	421.0	5.4
20°-30°	673.6	8.7
30°-40°	1140.0	14.7
40°-50°	1871.7	24.1
50°-60°	2057.1	26.5
60°-70°	1180.0	15.2
70°-80°	241.1	3.1
80°-90°	14.2	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°	7773.0	100.0
0°-180°	7773.0	100.0

Coefficient of Utilization



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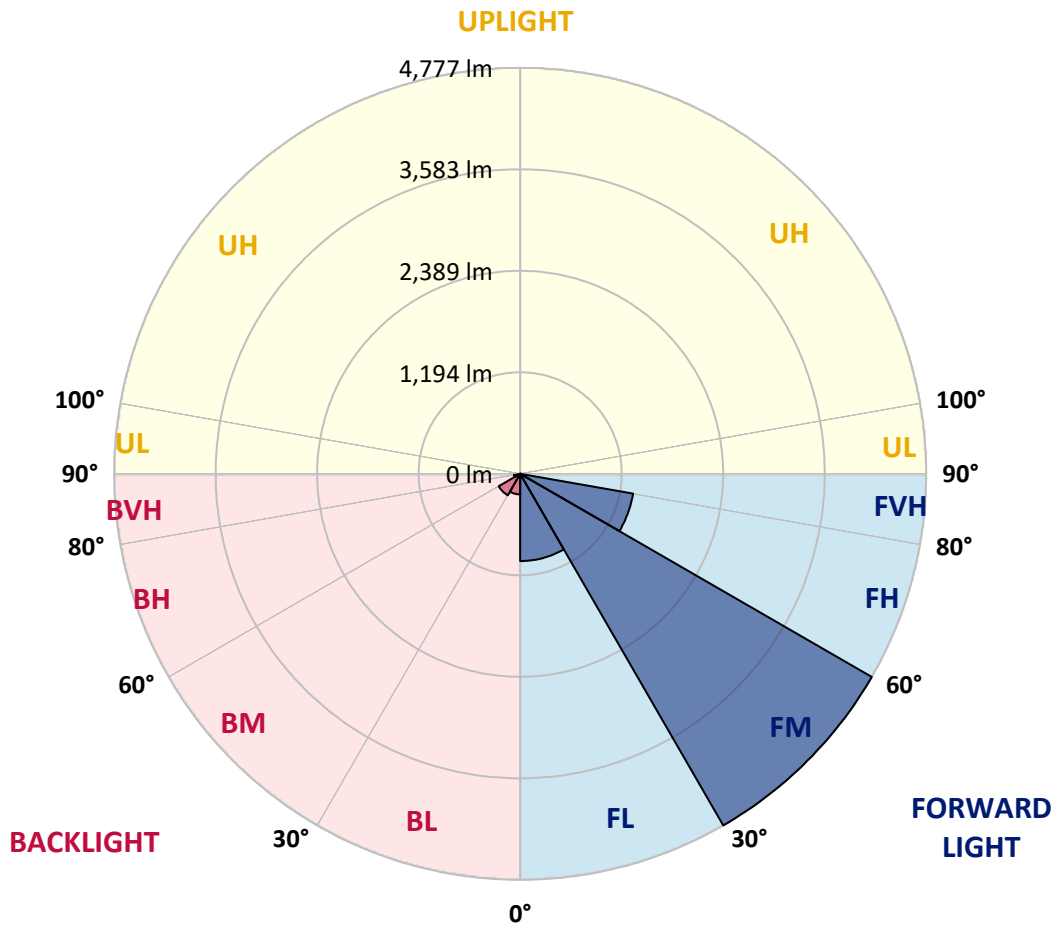
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.5	13.2			
FM (30°-60°)	4777.3	61.5			
FH (60°-80°)	1348.9	17.4			G1/1800
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	242.3	3.1	B1/500		
BM (30°-60°)	291.5	3.8	B1/1000		
BH (60°-80°)	72.2	0.9	B0/110		G0/110
BVH (80°-90°)	1.0	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°	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1
2.5°	2324.1	2294.9	2290.6	2284.8	2229.2	2187.5	2127.1	2061.0	1986.7	1911.0
5°	2685.0	2662.0	2657.7	2630.9	2567.6	2496.7	2389.3	2253.7	2115.1	1952.2
7.5°	2755.0	2750.7	2770.3	2769.4	2760.8	2704.7	2614.1	2452.6	2244.6	2003.0
10°	2443.0	2454.0	2512.5	2563.8	2702.3	2782.8	2763.2	2629.9	2377.8	2061.0
12.5°	2158.8	2145.8	2187.5	2245.5	2406.6	2646.2	2825.0	2778.0	2530.2	2126.7
15°	1980.5	1975.2	1998.7	2025.5	2148.2	2389.8	2753.1	2898.3	2676.9	2204.3
17.5°	1923.4	1919.1	1926.3	1933.0	2012.6	2199.5	2582.0	2972.1	2817.3	2293.0
20°	1969.9	1964.2	1963.2	1957.9	1991.0	2118.5	2427.2	2977.4	2943.4	2373.5
22.5°	2105.6	2098.9	2075.4	2054.3	2057.2	2129.5	2358.2	2924.7	3038.3	2448.7
25°	2351.4	2340.4	2291.5	2220.6	2175.5	2206.2	2368.7	2855.2	3128.9	2507.7
27.5°	2659.2	2644.8	2582.0	2476.5	2373.5	2336.1	2444.9	2807.3	3204.1	2552.7
30°	2960.6	2941.9	2880.1	2798.1	2647.6	2529.7	2582.5	2828.3	3293.7	2599.7
32.5°	3286.1	3268.3	3186.4	3084.8	2960.2	2801.5	2770.8	2931.4	3403.5	2665.4
35°	3697.8	3670.0	3553.5	3415.0	3282.7	3122.2	3025.8	3109.2	3549.7	2765.6
37.5°	4166.5	4129.2	4003.6	3812.3	3639.8	3460.1	3336.4	3353.7	3763.9	2899.8
40°	4608.5	4574.4	4458.4	4278.2	4061.6	3843.5	3711.7	3673.3	4059.7	3063.2
42.5°	4873.5	4842.8	4794.0	4717.7	4535.1	4312.7	4146.4	4063.5	4409.6	3258.8
45°	4888.4	4861.5	4927.2	5015.9	4979.9	4831.8	4629.1	4477.1	4760.9	3442.3
47.5°	4650.6	4632.4	4831.8	5141.4	5295.8	5358.1	5171.2	4856.3	5050.9	3574.1
50°	4002.6	3995.9	4406.2	4974.6	5416.1	5819.2	5743.0	5209.0	5275.6	3642.2
52.5°	3470.6	3446.2	3685.3	4440.7	5241.1	6061.7	6301.8	5555.1	5432.9	3655.1
55°	2632.3	2610.7	2910.8	3547.3	4677.0	5975.4	6710.7	5912.2	5545.5	3622.1
57.5°	1412.0	1398.6	1777.7	2361.0	3656.1	5457.8	6784.5	6289.8	5640.4	3534.4
60°	549.8	547.4	689.2	1145.5	2222.0	4440.2	6412.1	6516.6	5699.8	3426.5
62.5°	332.6	339.8	362.8	514.3	981.6	2758.4	5553.6	6258.7	5739.6	3327.8
65°	275.1	275.6	278.5	353.2	470.2	1154.2	4180.9	5410.3	5641.4	3151.9
67.5°	235.8	240.1	251.2	280.4	331.7	506.1	2407.0	4191.0	5043.7	2742.6
70°	186.0	191.7	205.6	230.5	255.9	316.8	889.6	2788.6	3853.1	2067.2
72.5°	156.7	156.3	163.4	187.4	203.2	222.9	342.2	1562.5	2239.3	986.9
75°	121.3	126.1	135.2	156.7	166.3	161.5	185.5	570.8	802.3	299.1
77.5°	94.9	98.7	106.9	128.0	137.6	114.6	106.9	204.2	257.9	107.4
80°	42.7	46.0	72.9	94.4	112.2	79.1	58.0	104.5	114.6	48.9
82.5°	7.7	12.9	42.7	49.8	57.5	51.3	30.2	54.2	56.1	19.7
85°	0.5	1.0	14.9	18.2	23.0	16.8	9.1	21.6	18.7	6.7
87.5°	0.0	0.0	0.0	0.5	0.5	2.4	2.9	3.8	2.9	2.4
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°
1873.1	0°	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1	1873.1
1877.4	2.5°	1842.9	1774.8	1708.7	1654.5	1622.9	1569.2	1533.8	1528.0	1513.1	1526.1
1882.2	5°	1807.4	1685.7	1562.5	1452.3	1361.7	1244.7	1157.5	1120.6	1088.5	1099.5
1894.7	7.5°	1790.7	1598.5	1406.7	1218.4	1024.7	837.8	698.8	640.8	596.7	603.0
1908.6	10°	1768.1	1507.9	1207.4	919.8	660.5	475.9	380.1	344.6	325.0	325.4
1929.2	12.5°	1750.9	1399.6	975.9	623.6	402.1	303.9	274.2	265.5	259.8	260.3
1960.3	15°	1742.3	1272.1	747.2	415.6	287.6	257.4	250.2	246.4	242.5	242.0
1994.8	17.5°	1727.9	1130.2	546.9	303.4	251.6	241.1	234.9	230.5	225.7	224.8
2024.6	20°	1706.3	969.1	399.7	256.4	235.8	227.7	219.0	213.3	207.5	206.6
2043.3	22.5°	1666.5	799.0	307.2	237.3	224.3	215.2	204.7	198.0	192.2	191.2
2034.1	25°	1592.7	639.4	258.8	225.3	214.2	203.2	191.7	182.6	177.3	176.4
2014.5	27.5°	1499.2	502.3	234.9	214.2	201.3	191.2	178.3	169.7	164.9	163.9
1988.6	30°	1389.0	386.8	221.0	201.8	186.0	177.3	165.8	158.6	155.8	155.8
1970.4	32.5°	1270.1	309.1	215.2	189.3	172.5	163.0	153.9	151.0	150.0	149.5
1980.5	35°	1158.5	268.4	212.3	179.3	160.6	151.5	147.6	148.1	150.0	150.0
2011.6	37.5°	1059.3	255.5	210.9	172.1	150.0	141.9	144.3	148.6	146.7	146.7
2066.3	40°	969.6	256.9	209.9	166.8	141.4	136.6	141.4	138.0	133.2	132.8
2132.9	42.5°	901.1	268.9	208.0	162.5	136.1	132.8	130.8	125.6	125.1	126.1
2201.9	45°	851.2	279.4	207.5	160.6	130.4	124.1	121.7	116.5	126.1	128.5
2230.2	47.5°	792.3	279.4	207.5	153.9	120.8	118.4	114.6	108.8	118.4	120.8
2203.3	50°	716.1	261.7	199.4	146.2	113.1	111.7	105.0	97.8	95.9	97.3
2140.6	52.5°	619.7	229.6	178.8	135.6	105.4	102.6	94.4	89.1	87.7	87.7
2027.9	55°	510.0	192.2	151.0	120.3	97.3	92.0	86.3	83.9	82.4	81.5
1870.2	57.5°	414.6	157.7	121.3	106.9	89.6	82.9	81.0	78.1	75.7	74.3
1738.4	60°	340.3	124.1	100.2	94.9	82.0	75.7	75.2	71.4	65.2	64.2
1629.6	62.5°	262.7	91.1	84.4	82.4	74.3	69.0	68.1	60.4	50.8	48.9
1475.3	65°	185.5	70.9	68.1	72.4	66.1	61.4	59.0	47.5	37.4	35.9
1234.7	67.5°	130.4	59.4	53.7	63.3	57.5	51.3	49.8	40.3	31.2	30.2
933.7	70°	93.0	48.4	44.1	54.2	46.0	45.1	42.2	33.6	25.4	24.4
462.0	72.5°	65.7	36.9	34.0	47.0	31.6	38.8	34.5	25.9	19.2	18.2
157.2	75°	48.4	26.4	24.0	27.3	23.0	29.2	24.4	17.3	12.0	11.5
70.9	77.5°	35.5	16.8	14.4	13.4	13.4	18.2	13.4	7.2	5.3	4.8
35.9	80°	24.9	7.7	6.7	5.8	5.3	4.3	1.9	1.0	0.5	0.5
12.5	82.5°	14.9	3.4	3.4	2.4	1.4	0.0	0.0	0.0	0.0	0.0
4.8	85°	3.4	1.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
1.9	87.5°	0.5	0.5	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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