

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: P946323

Luminaire Tested: **GALN-SB2A-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946323
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-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 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: 7649 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

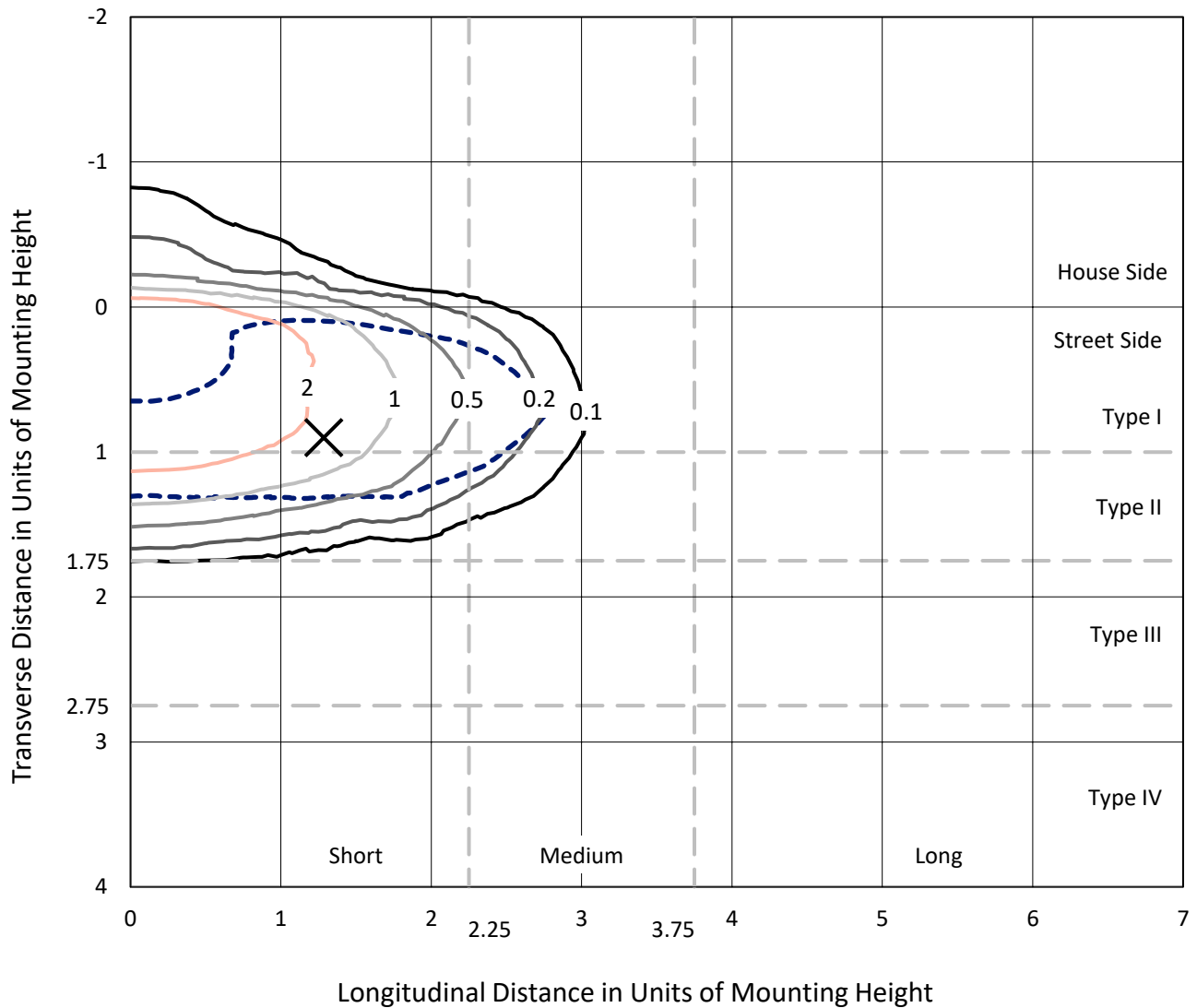
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

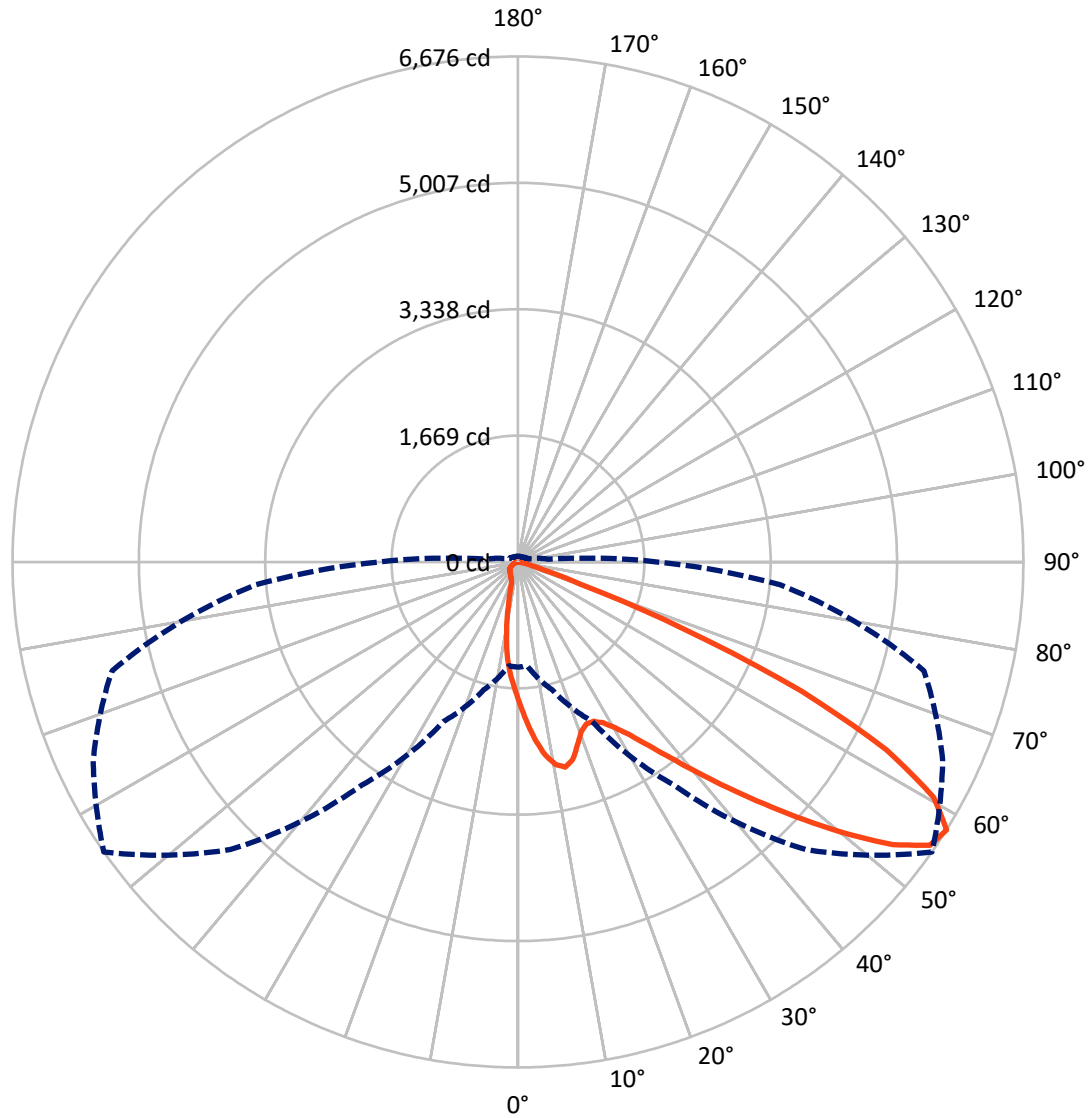
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	597.4	0.0	597.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7051.6	0.0	7051.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	7649.0	0.0	7649.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	2.2
10°-20°	414.3	5.4
20°-30°	662.8	8.7
30°-40°	1121.9	14.7
40°-50°	1841.8	24.1
50°-60°	2024.3	26.5
60°-70°	1161.1	15.2
70°-80°	237.3	3.1
80°-90°	14.0	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°	7649.0	100.0
0°-180°	7649.0	100.0

Coefficient of Utilization



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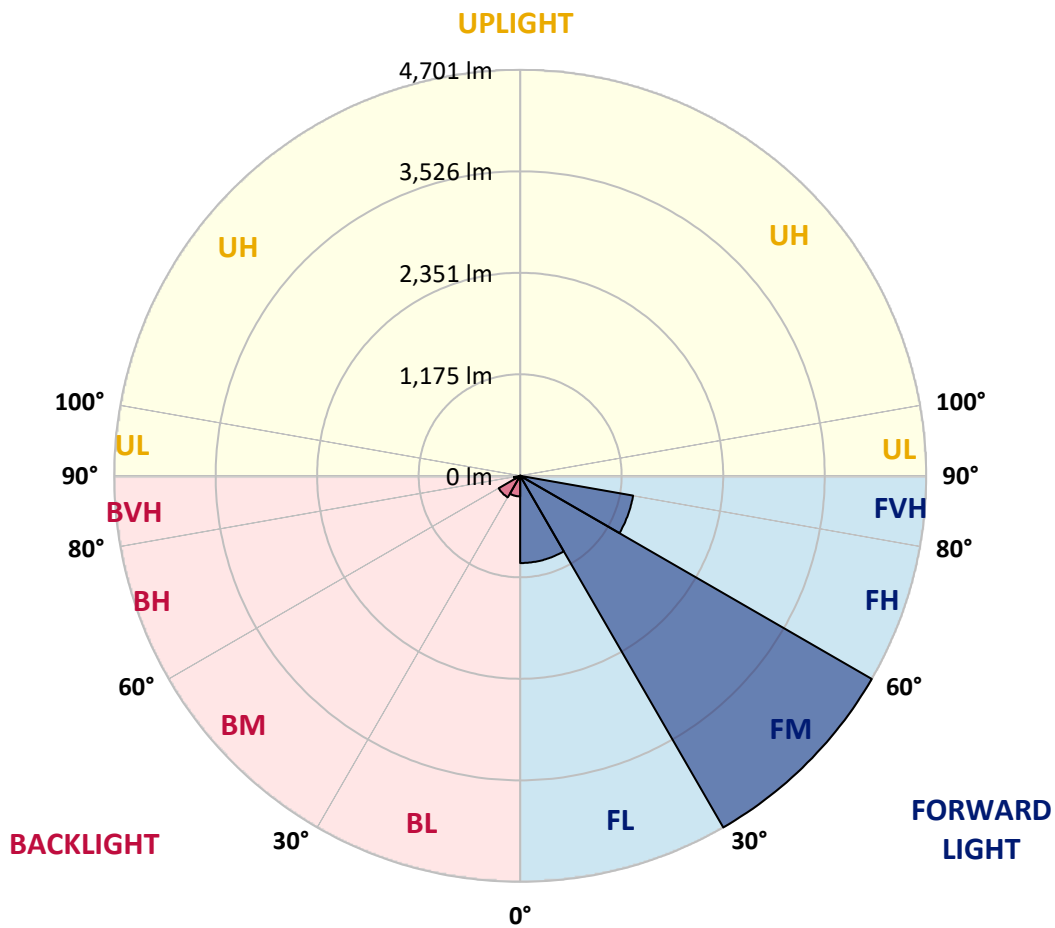
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.1	13.2			
FM (30°-60°)	4701.1	61.5			
FH (60°-80°)	1327.4	17.4			G1/1800
FVH (80°-90°)	13.1	0.2			G1/100
BL (0°-30°)	238.5	3.1	B1/500		
BM (30°-60°)	286.9	3.8	B1/1000		
BH (60°-80°)	71.0	0.9	B0/110		G0/110
BVH (80°-90°)	0.9	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°	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2
2.5°	2287.0	2258.3	2254.0	2248.4	2193.7	2152.6	2093.2	2028.1	1955.0	1880.5
5°	2642.2	2619.6	2615.3	2588.9	2526.6	2456.8	2351.2	2217.7	2081.4	1921.0
7.5°	2711.1	2706.8	2726.2	2725.2	2716.7	2661.5	2572.4	2413.4	2208.8	1971.0
10°	2404.0	2414.9	2472.4	2522.9	2659.2	2738.4	2719.1	2588.0	2339.9	2028.1
12.5°	2124.3	2111.6	2152.6	2209.7	2368.2	2604.0	2779.9	2733.7	2489.9	2092.7
15°	1948.9	1943.7	1966.8	1993.2	2113.9	2351.7	2709.2	2852.1	2634.2	2169.1
17.5°	1892.7	1888.5	1895.6	1902.2	1980.5	2164.4	2540.8	2924.7	2772.4	2256.4
20°	1938.5	1932.8	1931.9	1926.7	1959.2	2084.7	2388.5	2929.9	2896.4	2335.6
22.5°	2072.0	2065.4	2042.3	2021.5	2024.3	2095.6	2320.5	2878.0	2989.8	2409.7
25°	2313.9	2303.1	2255.0	2185.2	2140.8	2171.0	2330.9	2809.6	3079.0	2467.7
27.5°	2616.7	2602.6	2540.8	2437.0	2335.6	2298.8	2405.9	2762.5	3153.0	2512.0
30°	2913.4	2895.0	2834.2	2753.5	2605.4	2489.4	2541.3	2783.2	3241.2	2558.2
32.5°	3233.7	3216.2	3135.6	3035.6	2912.9	2756.8	2726.6	2884.6	3349.2	2622.9
35°	3638.8	3611.4	3496.8	3360.5	3230.4	3072.3	2977.5	3059.6	3493.1	2721.4
37.5°	4100.1	4063.3	3939.7	3751.5	3581.7	3404.9	3283.2	3300.2	3703.9	2853.5
40°	4534.9	4501.5	4387.3	4210.0	3996.8	3782.2	3652.5	3614.7	3994.9	3014.3
42.5°	4795.8	4765.6	4717.5	4642.5	4462.8	4243.9	4080.3	3998.7	4339.2	3206.8
45°	4810.4	4784.0	4848.6	4935.9	4900.5	4754.7	4555.2	4405.7	4684.9	3387.4
47.5°	4576.5	4558.5	4754.7	5059.4	5211.3	5272.6	5088.7	4778.8	4970.3	3517.1
50°	3938.8	3932.2	4335.9	4895.3	5329.7	5726.3	5651.3	5125.9	5191.5	3584.1
52.5°	3415.2	3391.2	3626.5	4369.9	5157.5	5965.0	6201.3	5466.5	5346.2	3596.8
55°	2590.3	2569.1	2864.3	3490.7	4602.4	5880.1	6603.6	5817.8	5457.0	3564.3
57.5°	1389.5	1376.3	1749.4	2323.4	3597.8	5370.7	6676.3	6189.5	5550.4	3478.0
60°	541.0	538.6	678.2	1127.3	2186.6	4369.4	6309.8	6412.6	5608.9	3371.8
62.5°	327.3	334.4	357.0	506.1	965.9	2714.4	5465.0	6158.8	5648.0	3274.7
65°	270.7	271.2	274.0	347.6	462.7	1135.7	4114.2	5324.0	5551.4	3101.6
67.5°	232.1	236.3	247.1	275.9	326.4	498.1	2368.6	4124.1	4963.2	2698.8
70°	183.0	188.7	202.3	226.9	251.9	311.8	875.4	2744.1	3791.6	2034.2
72.5°	154.2	153.8	160.8	184.4	200.0	219.3	336.8	1537.6	2203.6	971.1
75°	119.3	124.0	133.0	154.2	163.7	158.9	182.5	561.7	789.5	294.3
77.5°	93.4	97.2	105.2	125.9	135.4	112.7	105.2	200.9	253.7	105.7
80°	42.0	45.3	71.7	92.9	110.4	77.8	57.1	102.8	112.7	48.1
82.5°	7.5	12.7	42.0	49.1	56.6	50.5	29.7	53.3	55.2	19.3
85°	0.5	0.9	14.6	17.9	22.6	16.5	9.0	21.2	18.4	6.6
87.5°	0.0	0.0	0.0	0.5	0.5	2.4	2.8	3.8	2.8	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°
1843.2	0°	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2
1847.5	2.5°	1813.5	1746.5	1681.4	1628.1	1597.0	1544.2	1509.3	1503.6	1489.0	1501.7
1852.2	5°	1778.6	1658.8	1537.6	1429.1	1340.0	1224.9	1139.0	1102.7	1071.1	1082.0
1864.4	7.5°	1762.1	1573.0	1384.3	1198.9	1008.4	824.4	687.7	630.6	587.2	593.3
1878.1	10°	1739.9	1483.8	1188.1	905.1	649.9	468.4	374.0	339.1	319.8	320.3
1898.4	12.5°	1722.9	1377.2	960.3	613.6	395.7	299.0	269.8	261.3	255.6	256.1
1929.1	15°	1714.5	1251.8	735.3	408.9	283.0	253.3	246.2	242.4	238.7	238.2
1963.0	17.5°	1700.3	1112.2	538.2	298.6	247.6	237.2	231.1	226.9	222.1	221.2
1992.3	20°	1679.1	953.7	393.4	252.3	232.1	224.0	215.5	209.9	204.2	203.3
2010.7	22.5°	1639.9	786.2	302.3	233.5	220.7	211.8	201.4	194.8	189.1	188.2
2001.7	25°	1567.3	629.2	254.7	221.7	210.8	200.0	188.7	179.7	174.5	173.6
1982.4	27.5°	1475.3	494.3	231.1	210.8	198.1	188.2	175.5	167.0	162.2	161.3
1956.9	30°	1366.9	380.6	217.4	198.6	183.0	174.5	163.2	156.1	153.3	153.3
1939.0	32.5°	1249.9	304.2	211.8	186.3	169.8	160.4	151.4	148.6	147.6	147.2
1948.9	35°	1140.0	264.1	208.9	176.4	158.0	149.0	145.3	145.7	147.6	147.6
1979.5	37.5°	1042.4	251.4	207.5	169.3	147.6	139.6	142.0	146.2	144.3	144.3
2033.3	40°	954.2	252.8	206.6	164.1	139.1	134.4	139.1	135.8	131.1	130.6
2098.9	42.5°	886.7	264.6	204.7	159.9	133.9	130.6	128.8	123.6	123.1	124.0
2166.8	45°	837.7	275.0	204.2	158.0	128.3	122.2	119.8	114.6	124.0	126.4
2194.6	47.5°	779.6	275.0	204.2	151.4	118.9	116.5	112.7	107.1	116.5	118.9
2168.2	50°	704.6	257.5	196.2	143.9	111.3	109.9	103.3	96.2	94.3	95.7
2106.4	52.5°	609.8	225.9	175.9	133.5	103.8	100.9	92.9	87.7	86.3	86.3
1995.6	55°	501.8	189.1	148.6	118.4	95.7	90.6	84.9	82.5	81.1	80.2
1840.4	57.5°	408.0	155.2	119.3	105.2	88.2	81.6	79.7	76.9	74.5	73.1
1710.7	60°	334.9	122.2	98.6	93.4	80.7	74.5	74.0	70.3	64.1	63.2
1603.6	62.5°	258.5	89.6	83.0	81.1	73.1	67.9	67.0	59.4	50.0	48.1
1451.7	65°	182.5	69.8	67.0	71.2	65.1	60.4	58.0	46.7	36.8	35.4
1215.0	67.5°	128.3	58.5	52.8	62.3	56.6	50.5	49.1	39.6	30.7	29.7
918.8	70°	91.5	47.6	43.4	53.3	45.3	44.3	41.5	33.0	25.0	24.1
454.7	72.5°	64.6	36.3	33.5	46.2	31.1	38.2	34.0	25.5	18.9	17.9
154.7	75°	47.6	25.9	23.6	26.9	22.6	28.8	24.1	17.0	11.8	11.3
69.8	77.5°	34.9	16.5	14.1	13.2	13.2	17.9	13.2	7.1	5.2	4.7
35.4	80°	24.5	7.5	6.6	5.7	5.2	4.2	1.9	0.9	0.5	0.5
12.3	82.5°	14.6	3.3	3.3	2.4	1.4	0.0	0.0	0.0	0.0	0.0
4.7	85°	3.3	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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