

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: P946113

Luminaire Tested: **GALN-SB1D-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946113
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-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 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: 8302 lumens
Efficiency: N/A
Efficacy: 104.3 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

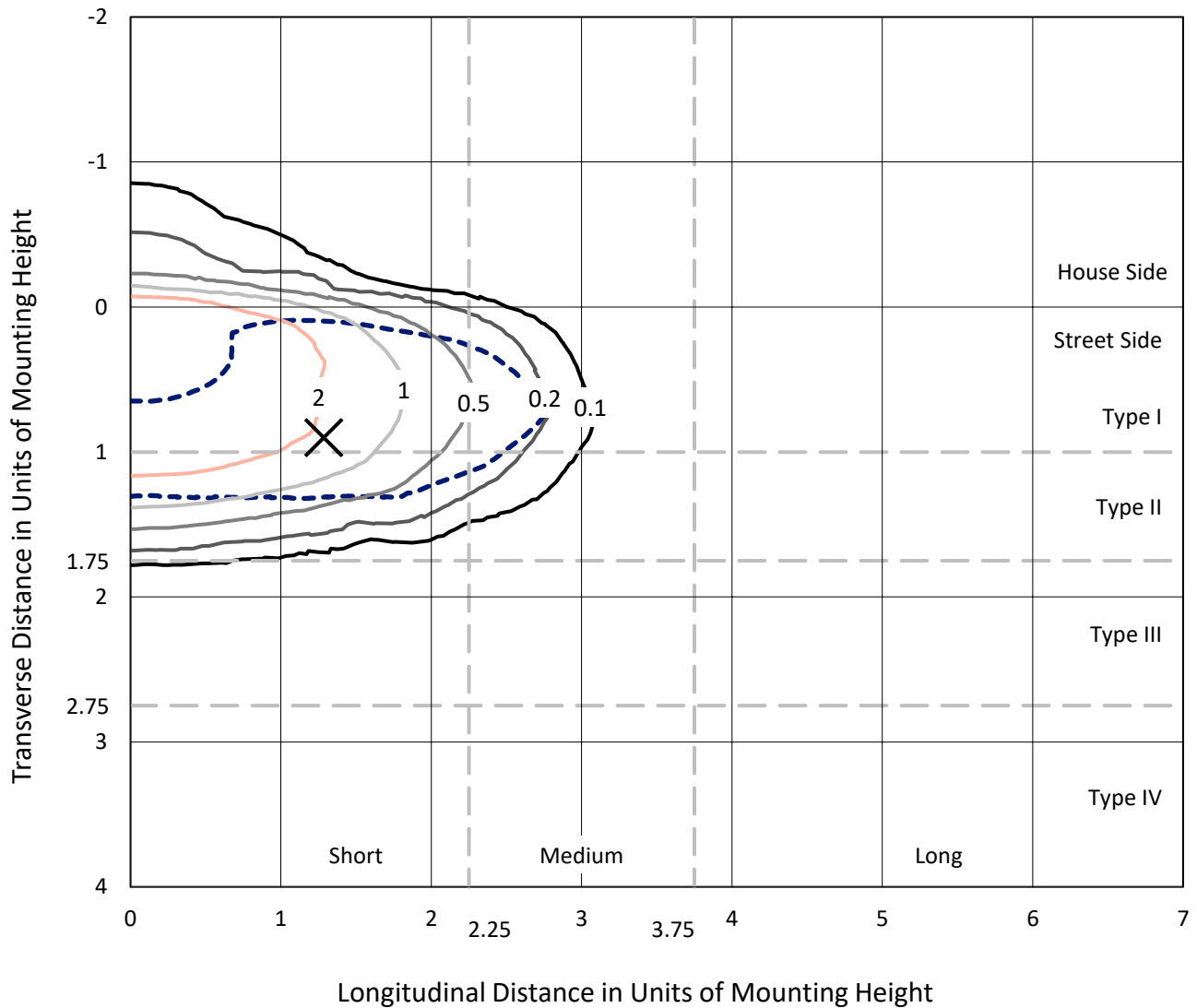
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

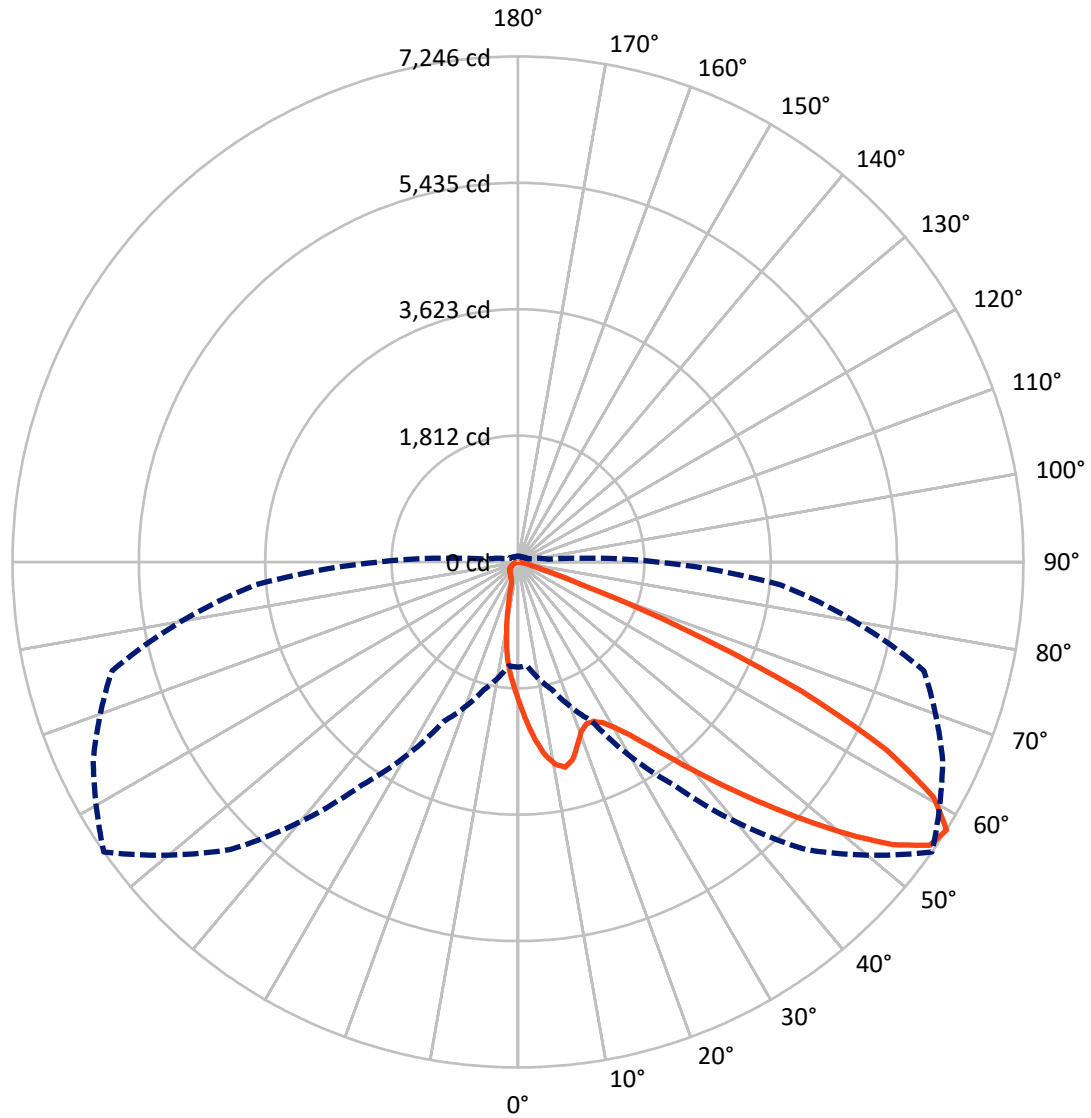
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	648.3	0.0	648.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7653.6	0.0	7653.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	8302.0	0.0	8302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	2.2
10°-20°	449.6	5.4
20°-30°	719.4	8.7
30°-40°	1217.6	14.7
40°-50°	1999.1	24.1
50°-60°	2197.1	26.5
60°-70°	1260.3	15.2
70°-80°	257.5	3.1
80°-90°	15.2	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°	8302.0	100.0
0°-180°	8302.0	100.0

Coefficient of Utilization



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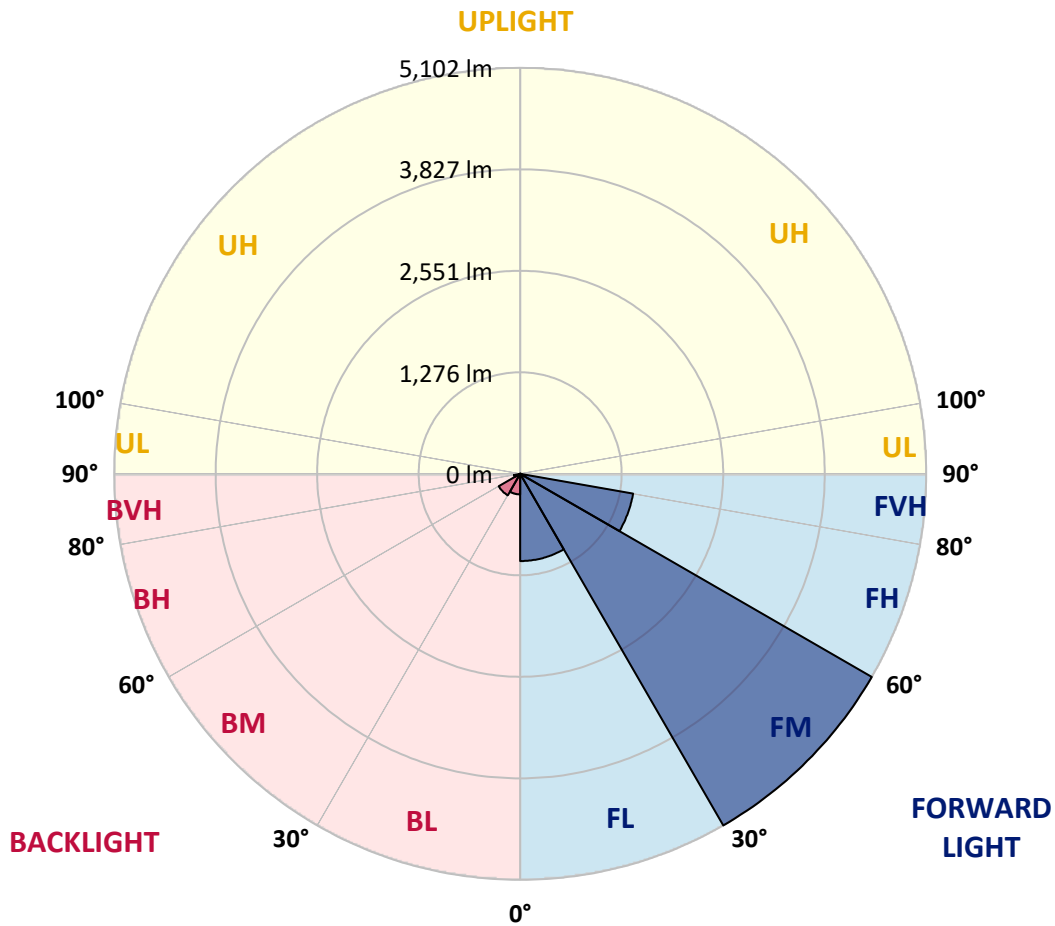
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.3	13.2			
FM (30°-60°)	5102.5	61.5			
FH (60°-80°)	1440.7	17.4			G1/1800
FVH (80°-90°)	14.2	0.2			G1/100
BL (0°-30°)	258.8	3.1	B1/500		
BM (30°-60°)	311.4	3.8	B1/1000		
BH (60°-80°)	77.1	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°	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6
2.5°	2482.3	2451.1	2446.5	2440.3	2380.9	2336.4	2271.9	2201.2	2121.9	2041.0
5°	2867.8	2843.2	2838.6	2809.9	2742.3	2666.6	2551.9	2407.0	2259.1	2085.0
7.5°	2942.5	2937.9	2958.9	2957.9	2948.7	2888.8	2792.0	2619.5	2397.3	2139.3
10°	2609.2	2621.0	2683.5	2738.3	2886.2	2972.2	2951.2	2808.9	2539.6	2201.2
12.5°	2305.7	2291.9	2336.4	2398.3	2570.3	2826.3	3017.2	2967.1	2702.4	2271.4
15°	2115.2	2109.6	2134.7	2163.4	2294.4	2552.4	2940.5	3095.6	2859.1	2354.3
17.5°	2054.3	2049.7	2057.4	2064.6	2149.5	2349.2	2757.7	3174.4	3009.1	2449.0
20°	2104.0	2097.8	2096.8	2091.2	2126.5	2262.7	2592.4	3180.0	3143.7	2535.0
22.5°	2248.9	2241.7	2216.6	2194.1	2197.2	2274.5	2518.6	3123.7	3245.1	2615.4
25°	2511.5	2499.7	2447.5	2371.7	2323.6	2356.4	2529.9	3049.5	3341.8	2678.4
27.5°	2840.1	2824.8	2757.7	2645.1	2535.0	2495.1	2611.3	2998.3	3422.2	2726.5
30°	3162.1	3142.2	3076.1	2988.6	2827.8	2701.9	2758.2	3020.8	3517.9	2776.6
32.5°	3509.7	3490.8	3403.2	3294.7	3161.6	2992.2	2959.4	3130.9	3635.1	2846.8
35°	3949.5	3919.8	3795.4	3647.4	3506.1	3334.6	3231.7	3320.8	3791.3	2953.8
37.5°	4450.1	4410.2	4276.1	4071.8	3887.5	3695.5	3563.5	3581.9	4020.1	3097.1
40°	4922.1	4885.7	4761.9	4569.4	4338.0	4105.1	3964.3	3923.3	4335.9	3271.7
42.5°	5205.2	5172.4	5120.2	5038.8	4843.8	4606.2	4428.6	4340.0	4709.6	3480.5
45°	5221.1	5192.4	5262.5	5357.2	5318.8	5160.7	4944.1	4781.8	5084.9	3676.6
47.5°	4967.1	4947.7	5160.7	5491.3	5656.2	5722.7	5523.1	5186.8	5394.6	3817.4
50°	4275.0	4267.9	4706.1	5313.2	5784.7	6215.2	6133.8	5563.5	5634.7	3890.1
52.5°	3706.8	3680.7	3936.1	4742.9	5597.8	6474.2	6730.7	5933.1	5802.6	3903.9
55°	2811.5	2788.4	3108.9	3788.7	4995.3	6382.1	7167.4	6314.5	5922.9	3868.6
57.5°	1508.1	1493.8	1898.7	2521.7	3904.9	5829.2	7246.2	6717.9	6024.3	3774.9
60°	587.2	584.6	736.1	1223.5	2373.3	4742.4	6848.4	6960.0	6087.7	3659.7
62.5°	355.3	363.0	387.5	549.3	1048.4	2946.1	5931.6	6684.6	6130.2	3554.2
65°	293.8	294.4	297.4	377.3	502.2	1232.7	4465.5	5778.5	6025.3	3366.4
67.5°	251.9	256.5	268.2	299.5	354.2	540.6	2570.9	4476.2	5386.9	2929.2
70°	198.6	204.8	219.6	246.2	273.4	338.4	950.1	2978.3	4115.3	2207.9
72.5°	167.4	166.9	174.6	200.2	217.1	238.0	365.5	1668.9	2391.7	1054.0
75°	129.5	134.6	144.4	167.4	177.6	172.5	198.1	609.7	857.0	319.4
77.5°	101.4	105.5	114.2	136.7	146.9	122.3	114.2	218.1	275.4	114.7
80°	45.6	49.1	77.8	100.8	119.8	84.5	61.9	111.6	122.3	52.2
82.5°	8.2	13.8	45.6	53.2	61.4	54.8	32.3	57.8	59.9	21.0
85°	0.5	1.0	15.9	19.5	24.6	17.9	9.7	23.0	20.0	7.2
87.5°	0.0	0.0	0.0	0.5	0.5	2.6	3.1	4.1	3.1	2.6
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°
2000.6	0°	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6	2000.6
2005.2	2.5°	1968.3	1895.6	1825.0	1767.1	1733.4	1676.0	1638.1	1632.0	1616.1	1629.9
2010.3	5°	1930.4	1800.4	1668.9	1551.1	1454.4	1329.5	1236.3	1196.9	1162.6	1174.3
2023.6	7.5°	1912.5	1707.2	1502.5	1301.3	1094.5	894.8	746.4	684.4	637.3	644.0
2038.5	10°	1888.5	1610.5	1289.5	982.4	705.4	508.3	406.0	368.1	347.1	347.6
2060.5	12.5°	1870.0	1494.8	1042.3	666.0	429.5	324.6	292.8	283.6	277.5	278.0
2093.7	15°	1860.8	1358.6	798.1	443.8	307.2	274.9	267.2	263.1	259.0	258.5
2130.6	17.5°	1845.5	1207.1	584.1	324.0	268.8	257.5	250.8	246.2	241.1	240.1
2162.3	20°	1822.4	1035.1	426.9	273.9	251.9	243.2	233.9	227.8	221.7	220.6
2182.3	22.5°	1779.9	853.4	328.1	253.4	239.6	229.9	218.6	211.4	205.3	204.3
2172.6	25°	1701.1	682.9	276.4	240.6	228.8	217.1	204.8	195.0	189.4	188.4
2151.6	27.5°	1601.3	536.5	250.8	228.8	215.0	204.3	190.4	181.2	176.1	175.1
2123.9	30°	1483.5	413.1	236.0	215.5	198.6	189.4	177.1	169.4	166.4	166.4
2104.5	32.5°	1356.6	330.2	229.9	202.2	184.3	174.1	164.3	161.3	160.2	159.7
2115.2	35°	1237.3	286.7	226.8	191.5	171.5	161.8	157.7	158.2	160.2	160.2
2148.5	37.5°	1131.3	272.9	225.2	183.8	160.2	151.5	154.1	158.7	156.6	156.6
2206.9	40°	1035.6	274.4	224.2	178.1	151.0	145.9	151.0	147.4	142.3	141.8
2278.0	42.5°	962.4	287.2	222.2	173.5	145.4	141.8	139.8	134.1	133.6	134.6
2351.8	45°	909.2	298.4	221.7	171.5	139.2	132.6	130.0	124.4	134.6	137.2
2382.0	47.5°	846.2	298.4	221.7	164.3	129.0	126.4	122.3	116.2	126.4	129.0
2353.3	50°	764.8	279.5	213.0	156.1	120.8	119.3	112.1	104.4	102.4	103.9
2286.2	52.5°	661.9	245.2	190.9	144.9	112.6	109.6	100.8	95.2	93.7	93.7
2165.9	55°	544.7	205.3	161.3	128.5	103.9	98.3	92.1	89.6	88.0	87.0
1997.5	57.5°	442.8	168.4	129.5	114.2	95.7	88.6	86.5	83.4	80.9	79.3
1856.7	60°	363.5	132.6	107.0	101.4	87.5	80.9	80.4	76.3	69.6	68.6
1740.5	62.5°	280.5	97.3	90.1	88.0	79.3	73.7	72.7	64.5	54.3	52.2
1575.7	65°	198.1	75.8	72.7	77.3	70.6	65.5	63.0	50.7	39.9	38.4
1318.7	67.5°	139.2	63.5	57.3	67.6	61.4	54.8	53.2	43.0	33.3	32.3
997.2	70°	99.3	51.7	47.1	57.8	49.1	48.1	45.0	35.8	27.1	26.1
493.5	72.5°	70.1	39.4	36.3	50.2	33.8	41.5	36.9	27.6	20.5	19.5
167.9	75°	51.7	28.2	25.6	29.2	24.6	31.2	26.1	18.4	12.8	12.3
75.8	77.5°	37.9	17.9	15.4	14.3	14.3	19.5	14.3	7.7	5.6	5.1
38.4	80°	26.6	8.2	7.2	6.1	5.6	4.6	2.0	1.0	0.5	0.5
13.3	82.5°	15.9	3.6	3.6	2.6	1.5	0.0	0.0	0.0	0.0	0.0
5.1	85°	3.6	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.0	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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