

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: P946344

Luminaire Tested: **GALN-SB2A-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946344
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 8092 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

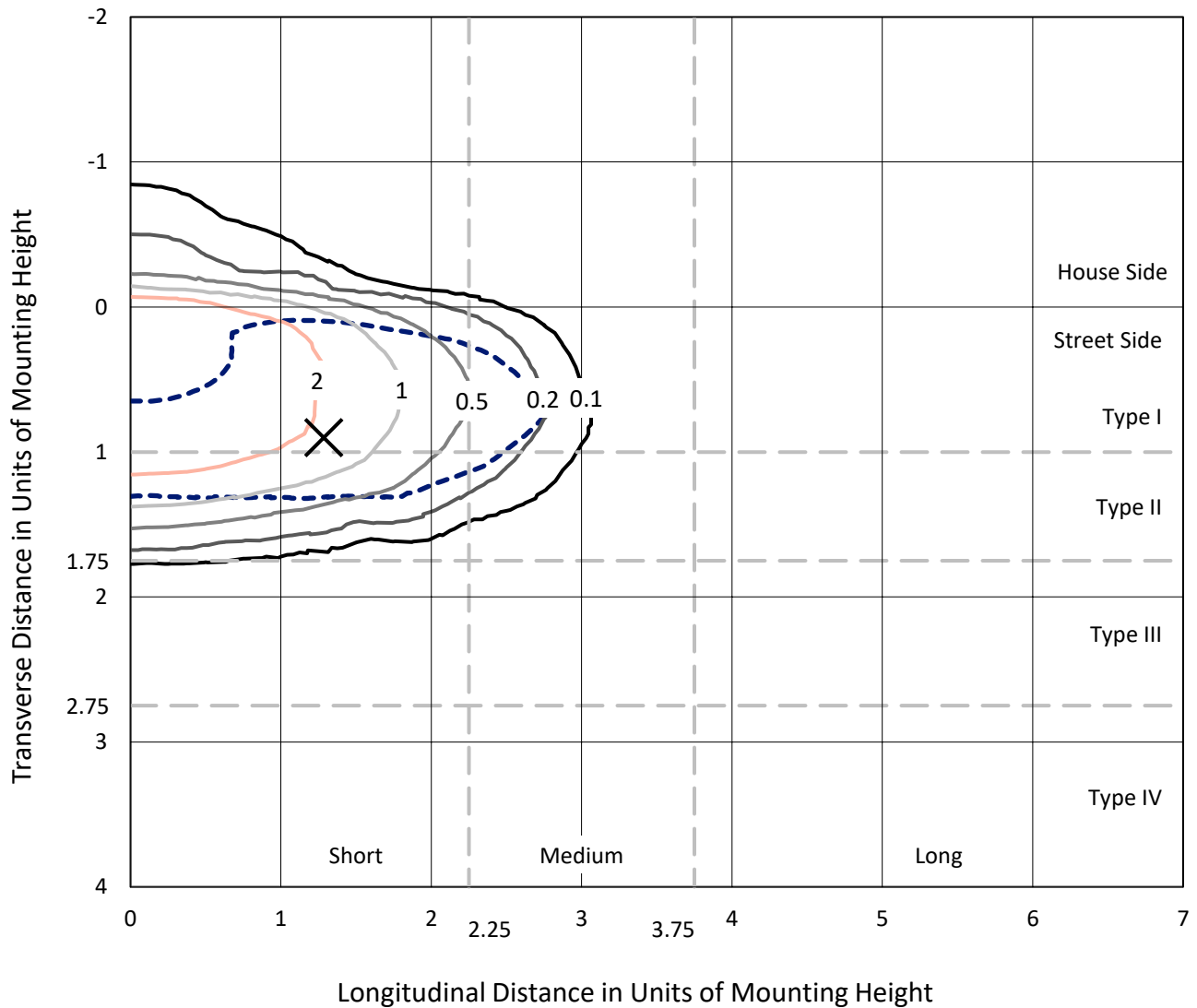
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

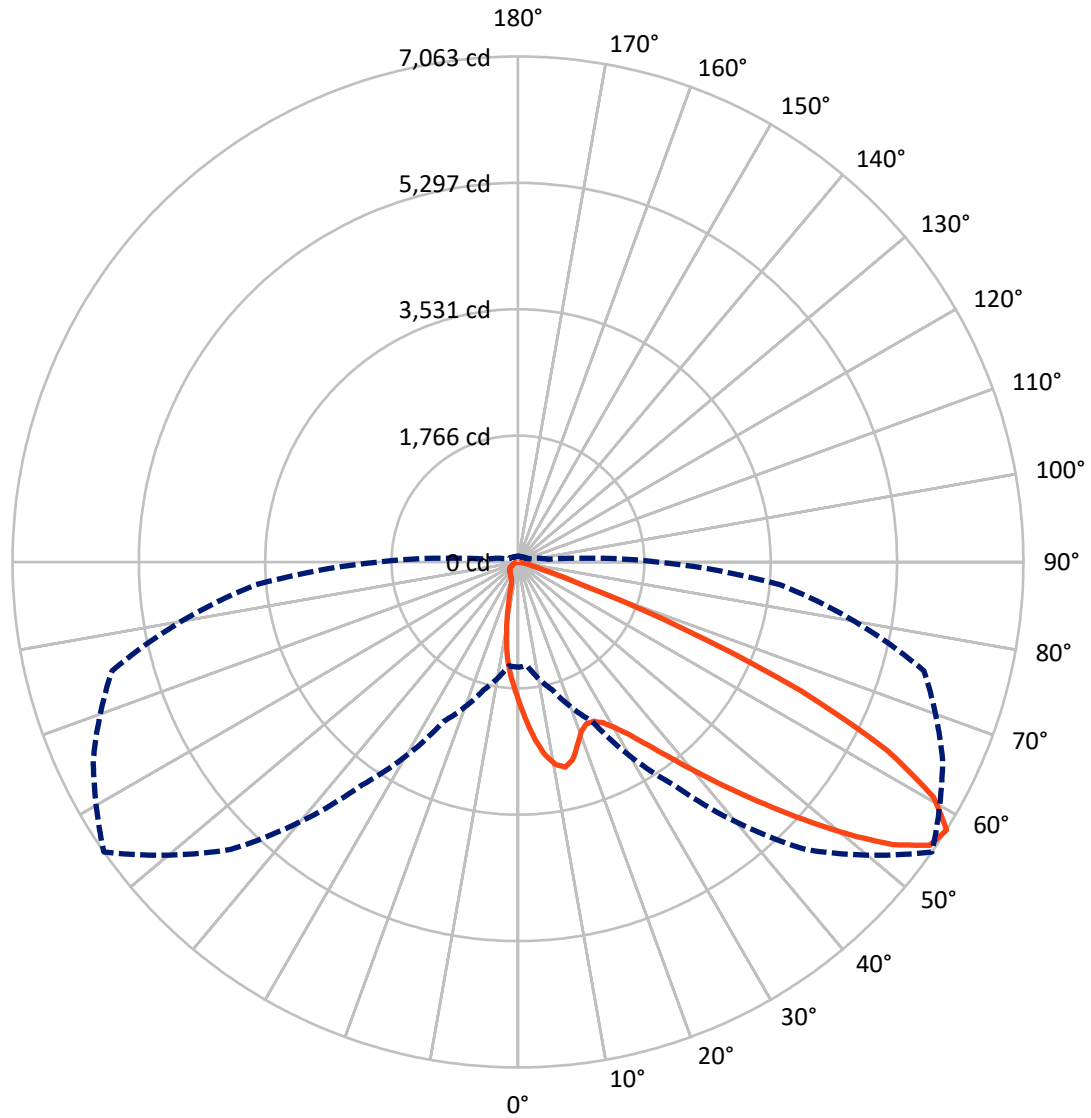
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	632.0	0.0	632.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7460.1	0.0	7460.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	8092.0	0.0	8092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	2.2
10°-20°	438.3	5.4
20°-30°	701.2	8.7
30°-40°	1186.8	14.7
40°-50°	1948.5	24.1
50°-60°	2141.6	26.5
60°-70°	1228.4	15.2
70°-80°	251.0	3.1
80°-90°	14.8	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°	8092.0	100.0
0°-180°	8092.0	100.0

Coefficient of Utilization



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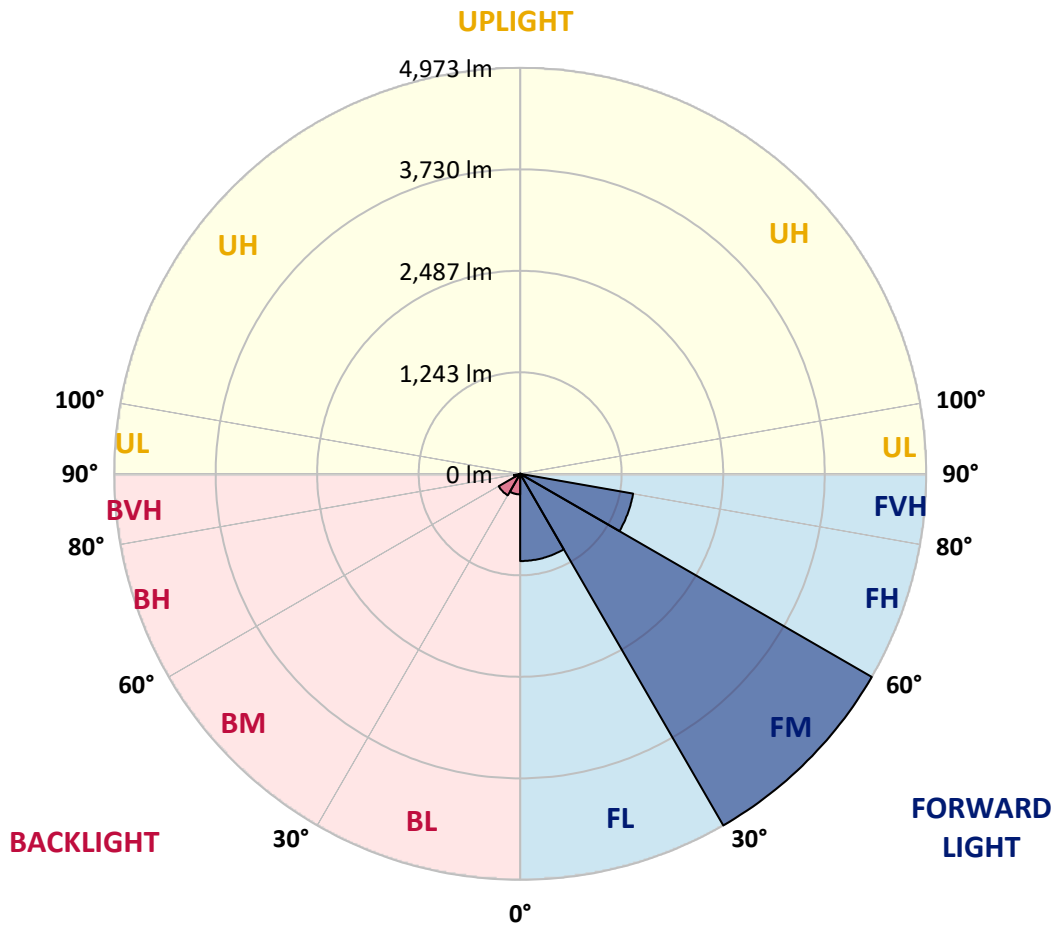
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.6	13.2			
FM (30°-60°)	4973.4	61.5			
FH (60°-80°)	1404.2	17.4			G1/1800
FVH (80°-90°)	13.8	0.2			G1/100
BL (0°-30°)	252.3	3.1	B1/500		
BM (30°-60°)	303.5	3.8	B1/1000		
BH (60°-80°)	75.2	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°	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0
2.5°	2419.5	2389.1	2384.6	2378.6	2320.7	2277.3	2214.4	2145.6	2068.2	1989.4
5°	2795.2	2771.3	2766.8	2738.8	2673.0	2599.1	2487.4	2346.2	2202.0	2032.3
7.5°	2868.1	2863.6	2884.0	2883.0	2874.1	2815.7	2721.4	2553.2	2336.7	2085.2
10°	2543.2	2554.7	2615.6	2669.0	2813.2	2897.0	2876.6	2737.8	2475.4	2145.6
12.5°	2247.4	2233.9	2277.3	2337.7	2505.3	2754.8	2940.9	2892.0	2634.1	2213.9
15°	2061.7	2056.3	2080.7	2108.6	2236.4	2487.9	2866.1	3017.3	2786.7	2294.8
17.5°	2002.4	1997.9	2005.4	2012.3	2095.2	2289.8	2687.9	3094.1	2932.9	2387.1
20°	2050.8	2044.8	2043.8	2038.3	2072.7	2205.4	2526.8	3099.6	3064.2	2470.9
22.5°	2192.0	2185.0	2160.5	2138.6	2141.6	2216.9	2454.9	3044.7	3163.0	2549.2
25°	2447.9	2436.5	2385.6	2311.7	2264.8	2296.8	2465.9	2972.4	3257.3	2610.6
27.5°	2768.3	2753.3	2687.9	2578.2	2470.9	2432.0	2545.2	2922.5	3335.6	2657.5
30°	3082.1	3062.7	2998.3	2913.0	2756.3	2633.6	2688.4	2944.4	3428.9	2706.4
32.5°	3420.9	3402.5	3317.1	3211.4	3081.6	2916.5	2884.5	3051.7	3543.2	2774.8
35°	3849.5	3820.6	3699.4	3555.2	3417.4	3250.3	3150.0	3236.8	3695.4	2879.1
37.5°	4337.5	4298.6	4167.9	3968.8	3789.2	3602.1	3473.3	3491.3	3918.4	3018.8
40°	4797.6	4762.2	4641.4	4453.8	4228.3	4001.2	3864.0	3824.1	4226.3	3188.9
42.5°	5073.5	5041.6	4990.7	4911.4	4721.2	4489.7	4316.6	4230.3	4590.5	3392.5
45°	5089.0	5061.0	5129.4	5221.7	5184.3	5030.1	4819.0	4660.9	4956.3	3583.6
47.5°	4841.5	4822.5	5030.1	5352.4	5513.1	5578.0	5383.4	5055.6	5258.1	3720.8
50°	4166.9	4159.9	4587.0	5178.8	5638.4	6058.0	5978.7	5422.8	5492.2	3791.7
52.5°	3613.0	3587.6	3836.6	4623.0	5456.2	6310.5	6560.5	5783.1	5655.8	3805.1
55°	2740.3	2717.9	3030.2	3692.9	4868.9	6220.7	6986.1	6154.8	5773.1	3770.7
57.5°	1470.0	1456.0	1850.7	2457.9	3806.1	5681.8	7062.9	6548.0	5871.9	3679.4
60°	572.3	569.8	717.5	1192.5	2313.2	4622.5	6675.2	6784.0	5933.7	3567.1
62.5°	346.3	353.8	377.7	535.4	1021.9	2871.6	5781.6	6515.5	5975.2	3464.3
65°	286.4	286.9	289.9	367.7	489.5	1201.5	4352.5	5632.4	5872.9	3281.2
67.5°	245.5	250.0	261.5	291.9	345.3	526.9	2505.8	4363.0	5250.7	2855.1
70°	193.6	199.6	214.1	240.0	266.4	329.8	926.1	2903.0	4011.2	2152.1
72.5°	163.2	162.7	170.1	195.1	211.6	232.0	356.3	1626.6	2331.2	1027.4
75°	126.2	131.2	140.7	163.2	173.1	168.2	193.1	594.3	835.3	311.4
77.5°	98.8	102.8	111.3	133.2	143.2	119.3	111.3	212.6	268.4	111.8
80°	44.4	47.9	75.8	98.3	116.8	82.3	60.4	108.8	119.3	50.9
82.5°	8.0	13.5	44.4	51.9	59.9	53.4	31.4	56.4	58.4	20.5
85°	0.5	1.0	15.5	19.0	24.0	17.5	9.5	22.5	19.5	7.0
87.5°	0.0	0.0	0.0	0.5	0.5	2.5	3.0	4.0	3.0	2.5
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°
1950.0	0°	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0	1950.0
1954.5	2.5°	1918.5	1847.7	1778.8	1722.4	1689.5	1633.6	1596.7	1590.7	1575.2	1588.7
1959.5	5°	1881.6	1754.9	1626.6	1511.9	1417.6	1295.8	1205.0	1166.6	1133.2	1144.6
1972.4	7.5°	1864.1	1664.1	1464.5	1268.4	1066.8	872.2	727.5	667.1	621.2	627.7
1986.9	10°	1840.7	1569.8	1256.9	957.5	687.6	495.5	395.7	358.8	338.3	338.8
2008.4	12.5°	1822.7	1457.0	1015.9	649.2	418.6	316.3	285.4	276.4	270.4	270.9
2040.8	15°	1813.8	1324.3	777.9	432.6	299.4	267.9	260.5	256.5	252.5	252.0
2076.7	17.5°	1798.8	1176.6	569.3	315.8	262.0	251.0	244.5	240.0	235.0	234.0
2107.6	20°	1776.3	1008.9	416.1	266.9	245.5	237.0	228.0	222.0	216.1	215.1
2127.1	22.5°	1734.9	831.8	319.8	247.0	233.5	224.0	213.1	206.1	200.1	199.1
2117.6	25°	1658.1	665.6	269.4	234.5	223.0	211.6	199.6	190.1	184.6	183.6
2097.2	27.5°	1560.8	522.9	244.5	223.0	209.6	199.1	185.6	176.6	171.6	170.6
2070.2	30°	1446.0	402.7	230.0	210.1	193.6	184.6	172.6	165.2	162.2	162.2
2051.3	32.5°	1322.3	321.8	224.0	197.1	179.6	169.6	160.2	157.2	156.2	155.7
2061.7	35°	1206.0	279.4	221.0	186.6	167.2	157.7	153.7	154.2	156.2	156.2
2094.2	37.5°	1102.7	266.0	219.5	179.1	156.2	147.7	150.2	154.7	152.7	152.7
2151.1	40°	1009.4	267.4	218.5	173.6	147.2	142.2	147.2	143.7	138.7	138.2
2220.4	42.5°	938.1	279.9	216.6	169.2	141.7	138.2	136.2	130.7	130.2	131.2
2292.3	45°	886.2	290.9	216.1	167.2	135.7	129.2	126.7	121.2	131.2	133.7
2321.7	47.5°	824.8	290.9	216.1	160.2	125.7	123.2	119.3	113.3	123.2	125.7
2293.8	50°	745.5	272.4	207.6	152.2	117.8	116.3	109.3	101.8	99.8	101.3
2228.4	52.5°	645.2	239.0	186.1	141.2	109.8	106.8	98.3	92.8	91.3	91.3
2111.1	55°	530.9	200.1	157.2	125.2	101.3	95.8	89.8	87.3	85.8	84.8
1947.0	57.5°	431.6	164.2	126.2	111.3	93.3	86.3	84.3	81.3	78.8	77.3
1809.8	60°	354.3	129.2	104.3	98.8	85.3	78.8	78.3	74.3	67.9	66.9
1696.5	62.5°	273.4	94.8	87.8	85.8	77.3	71.9	70.9	62.9	52.9	50.9
1535.8	65°	193.1	73.8	70.9	75.3	68.9	63.9	61.4	49.4	38.9	37.4
1285.3	67.5°	135.7	61.9	55.9	65.9	59.9	53.4	51.9	41.9	32.4	31.4
972.0	70°	96.8	50.4	45.9	56.4	47.9	46.9	43.9	34.9	26.4	25.4
481.0	72.5°	68.4	38.4	35.4	48.9	32.9	40.4	35.9	26.9	20.0	19.0
163.7	75°	50.4	27.4	24.9	28.4	24.0	30.4	25.4	18.0	12.5	12.0
73.8	77.5°	36.9	17.5	15.0	14.0	14.0	19.0	14.0	7.5	5.5	5.0
37.4	80°	25.9	8.0	7.0	6.0	5.5	4.5	2.0	1.0	0.5	0.5
13.0	82.5°	15.5	3.5	3.5	2.5	1.5	0.0	0.0	0.0	0.0	0.0
5.0	85°	3.5	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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