

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: P949452

Luminaire Tested: **GALN-SB4A-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949452
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-SB4A-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 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: 10663 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

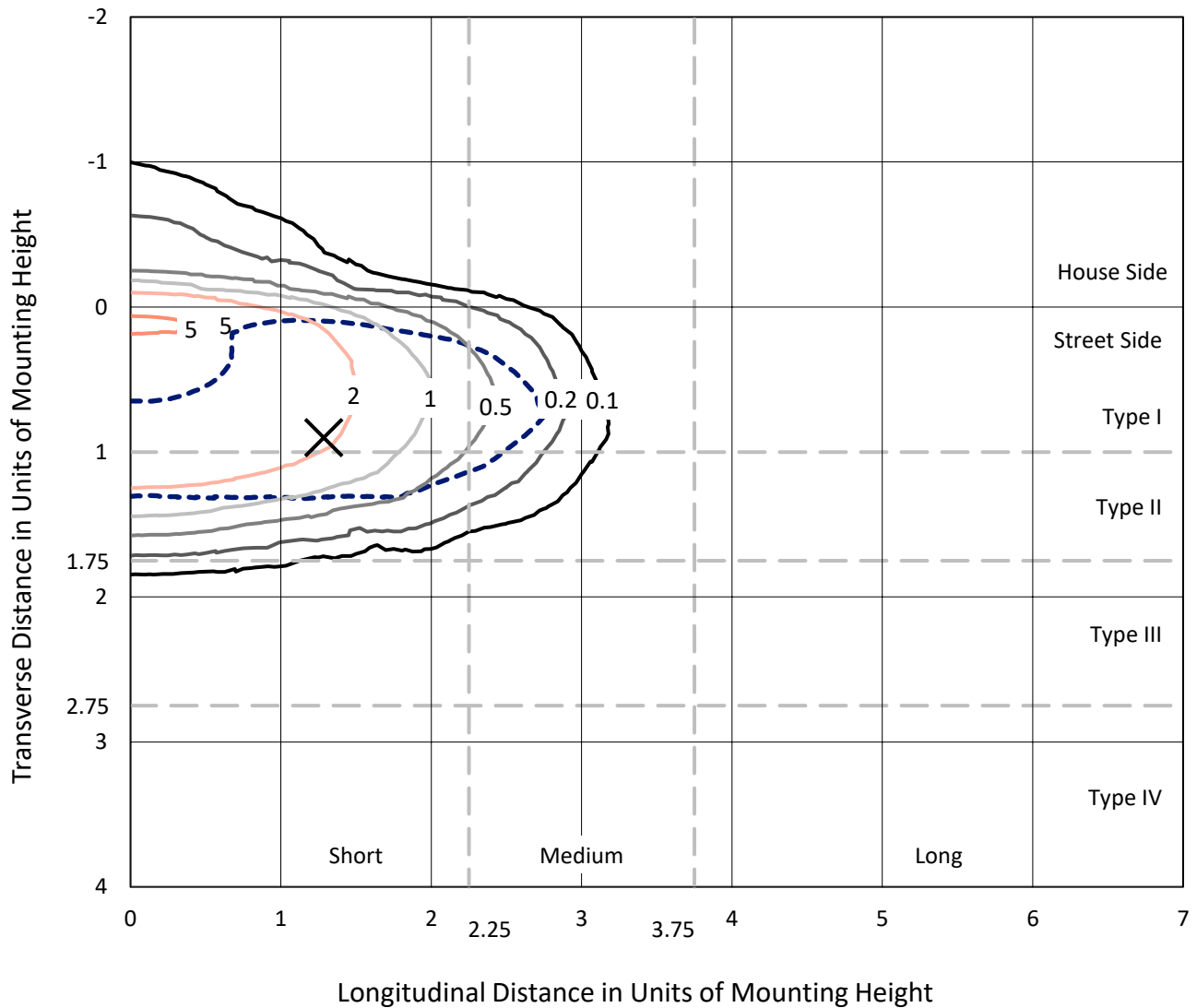
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

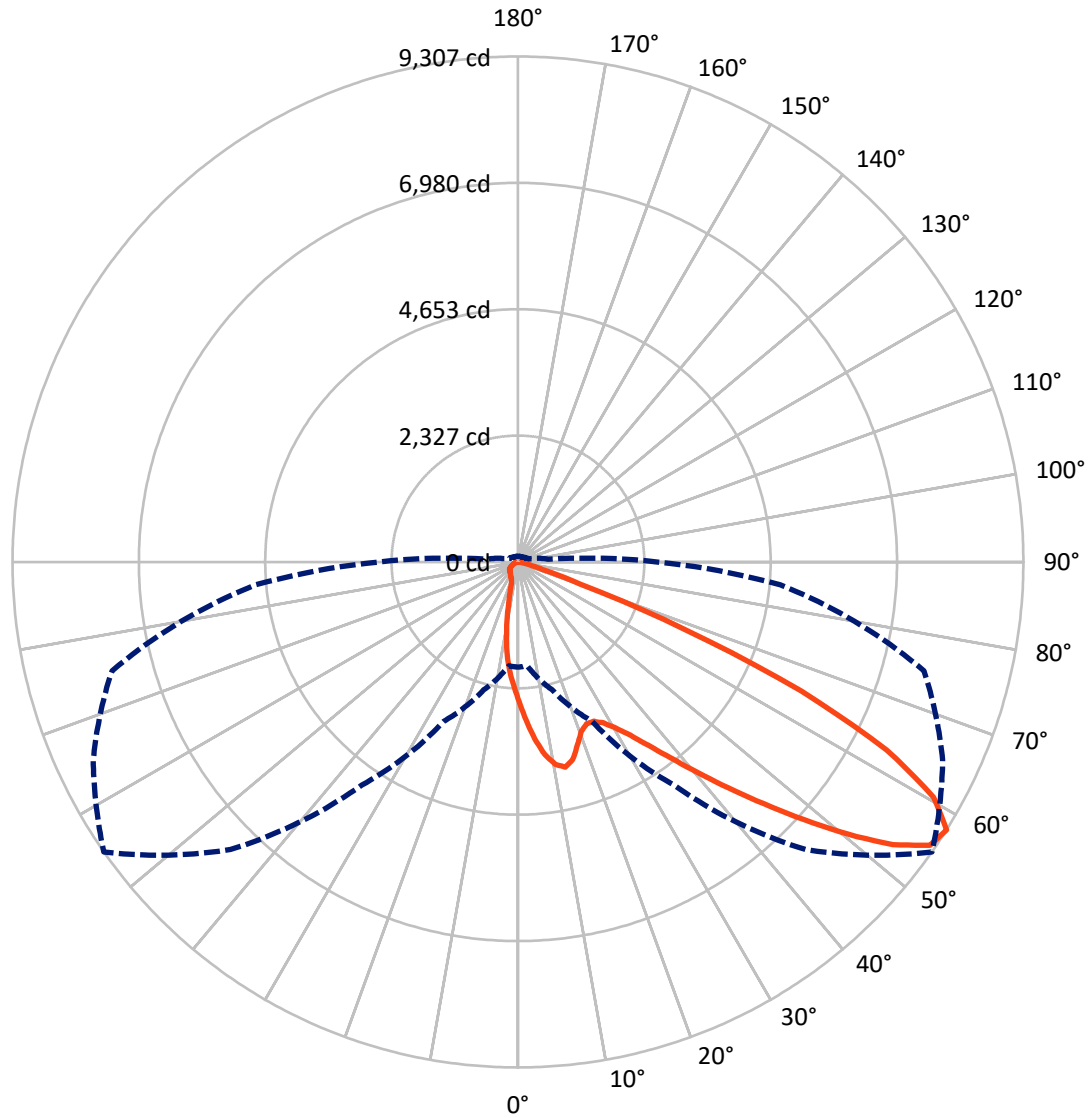
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	832.7	0.0	832.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	9830.3	0.0	9830.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	10663.0	0.0	10663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	2.2
10°-20°	577.5	5.4
20°-30°	924.0	8.7
30°-40°	1563.9	14.7
40°-50°	2567.6	24.1
50°-60°	2822.0	26.5
60°-70°	1618.7	15.2
70°-80°	330.7	3.1
80°-90°	19.5	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°	10663.0	100.0
0°-180°	10663.0	100.0

Coefficient of Utilization



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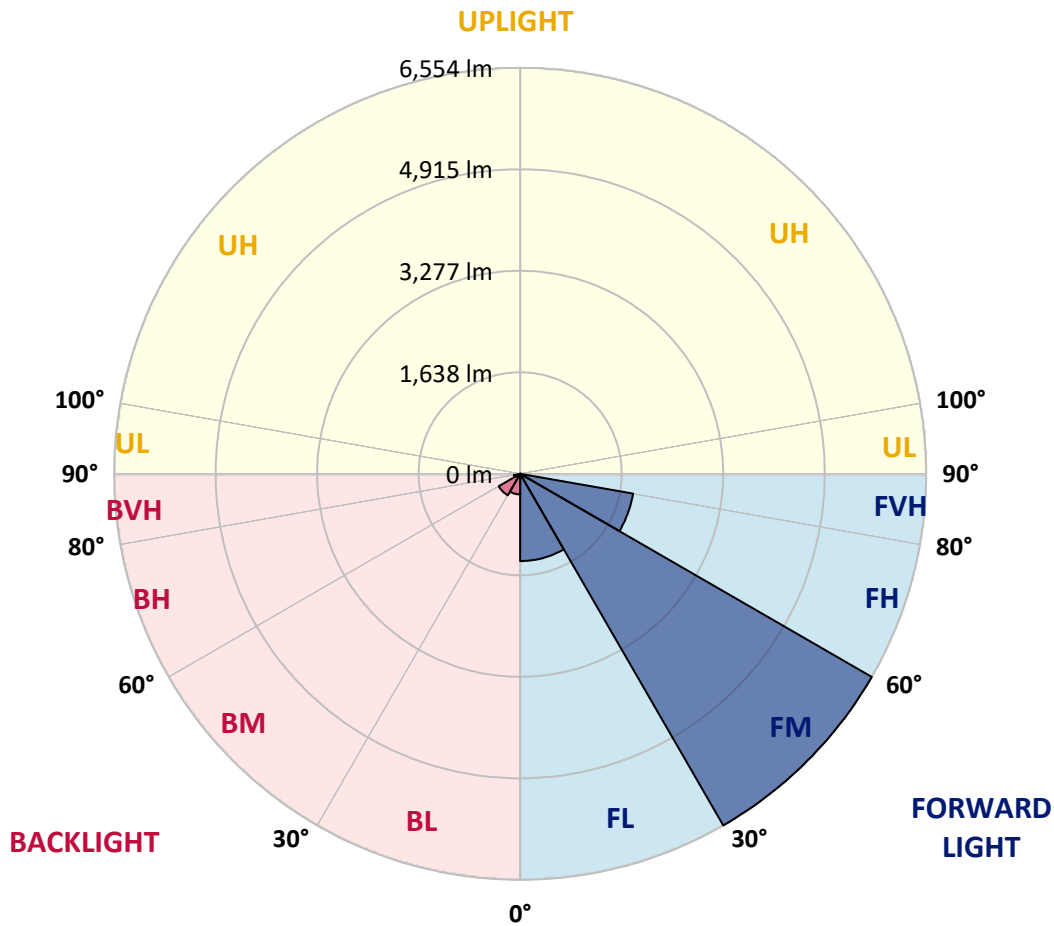
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.1	13.2			
FM (30°-60°)	6553.6	61.5			
FH (60°-80°)	1850.4	17.4			G2/5000
FVH (80°-90°)	18.2	0.2			G1/100
BL (0°-30°)	332.5	3.1	B1/500		
BM (30°-60°)	399.9	3.8	B1/1000		
BH (60°-80°)	99.0	0.9	B0/110		G0/110
BVH (80°-90°)	1.3	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5
2.5°	3188.2	3148.1	3142.2	3134.3	3058.0	3000.8	2918.0	2827.3	2725.3	2621.5
5°	3683.3	3651.8	3645.9	3609.0	3522.2	3424.9	3277.7	3091.6	2901.6	2678.0
7.5°	3779.3	3773.4	3800.4	3799.1	3787.2	3710.3	3586.0	3364.4	3079.1	2747.7
10°	3351.3	3366.4	3446.6	3517.0	3707.0	3817.5	3790.5	3607.7	3261.9	2827.3
12.5°	2961.4	2943.6	3000.8	3080.4	3301.3	3630.1	3875.3	3810.9	3471.0	2917.3
15°	2716.8	2709.6	2741.8	2778.6	2946.9	3278.3	3776.7	3975.9	3672.2	3023.9
17.5°	2638.6	2632.6	2642.5	2651.7	2760.9	3017.3	3542.0	4077.2	3864.8	3145.5
20°	2702.3	2694.4	2693.1	2685.9	2731.3	2906.2	3329.6	4084.4	4037.7	3256.0
22.5°	2888.4	2879.2	2847.0	2818.1	2822.0	2921.3	3234.9	4012.1	4167.9	3359.2
25°	3225.7	3210.6	3143.5	3046.2	2984.4	3026.5	3249.4	3916.7	4292.2	3440.1
27.5°	3647.8	3628.1	3542.0	3397.3	3256.0	3204.7	3353.9	3851.0	4395.4	3501.9
30°	4061.4	4035.8	3950.9	3838.5	3632.0	3470.3	3542.6	3879.9	4518.4	3566.3
32.5°	4507.8	4483.5	4371.1	4231.7	4060.7	3843.1	3801.0	4021.3	4668.9	3656.4
35°	5072.6	5034.5	4874.7	4684.7	4503.2	4283.0	4150.8	4265.2	4869.5	3793.8
37.5°	5715.7	5664.4	5492.1	5229.8	4993.1	4746.5	4576.9	4600.5	5163.4	3977.9
40°	6321.9	6275.2	6116.1	5868.9	5571.7	5272.5	5091.7	5039.1	5569.0	4202.1
42.5°	6685.5	6643.4	6576.3	6471.8	6221.3	5916.2	5688.1	5574.3	6049.0	4470.4
45°	6705.9	6669.0	6759.1	6880.8	6831.5	6628.3	6350.2	6141.7	6531.0	4722.2
47.5°	6379.7	6354.8	6628.3	7053.0	7264.7	7350.2	7093.8	6661.8	6928.8	4903.0
50°	5490.8	5481.6	6044.4	6824.2	7429.8	7982.7	7878.2	7145.7	7237.1	4996.4
52.5°	4761.0	4727.4	5055.5	6091.8	7189.8	8315.4	8644.8	7620.5	7452.8	5014.1
55°	3611.0	3581.4	3993.0	4866.2	6415.9	8197.1	9205.7	8110.3	7607.3	4968.7
57.5°	1937.0	1918.6	2438.7	3238.9	5015.4	7487.0	9306.9	8628.4	7737.5	4848.4
60°	754.2	750.9	945.5	1571.4	3048.2	6091.1	8796.1	8939.4	7819.0	4700.5
62.5°	456.3	466.2	497.7	705.5	1346.6	3783.9	7618.5	8585.7	7873.6	4565.0
65°	377.4	378.1	382.0	484.6	645.0	1583.3	5735.4	7421.9	7738.8	4323.7
67.5°	323.5	329.4	344.5	384.6	455.0	694.3	3302.0	5749.2	6918.9	3762.2
70°	255.1	263.0	282.1	316.3	351.1	434.6	1220.3	3825.4	5285.7	2835.8
72.5°	215.0	214.3	224.2	257.1	278.8	305.7	469.5	2143.5	3071.9	1353.8
75°	166.3	172.9	185.4	215.0	228.2	221.6	254.5	783.1	1100.7	410.3
77.5°	130.2	135.4	146.6	175.6	188.7	157.1	146.6	280.1	353.7	147.3
80°	58.5	63.1	99.9	129.5	153.9	108.5	79.6	143.3	157.1	67.1
82.5°	10.5	17.8	58.5	68.4	78.9	70.4	41.4	74.3	76.9	27.0
85°	0.7	1.3	20.4	25.0	31.6	23.0	12.5	29.6	25.6	9.2
87.5°	0.0	0.0	0.0	0.7	0.7	3.3	3.9	5.3	3.9	3.3
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°
2569.5	0°	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5
2575.4	2.5°	2528.1	2434.7	2344.0	2269.7	2226.3	2152.7	2104.0	2096.1	2075.7	2093.5
2582.0	5°	2479.4	2312.4	2143.5	1992.2	1868.0	1707.5	1587.9	1537.2	1493.2	1508.3
2599.1	7.5°	2456.4	2192.8	1929.8	1671.4	1405.7	1149.3	958.6	879.1	818.6	827.1
2618.2	10°	2425.5	2068.5	1656.2	1261.7	906.0	652.9	521.4	472.7	445.8	446.4
2646.4	12.5°	2401.9	1919.9	1338.7	855.4	551.6	416.9	376.1	364.3	356.4	357.0
2689.2	15°	2390.0	1745.0	1025.0	570.1	394.5	353.1	343.2	338.0	332.7	332.0
2736.5	17.5°	2370.3	1550.4	750.2	416.2	345.2	330.7	322.2	316.3	309.7	308.4
2777.3	20°	2340.7	1329.5	548.4	351.8	323.5	312.3	300.5	292.6	284.7	283.4
2802.9	22.5°	2286.1	1096.1	421.5	325.5	307.7	295.2	280.8	271.5	263.7	262.3
2790.4	25°	2184.9	877.1	355.1	309.0	293.9	278.8	263.0	250.5	243.3	242.0
2763.5	27.5°	2056.7	689.1	322.2	293.9	276.2	262.3	244.6	232.8	226.2	224.9
2728.0	30°	1905.4	530.6	303.1	276.8	255.1	243.3	227.5	217.6	213.7	213.7
2703.0	32.5°	1742.4	424.1	295.2	259.7	236.7	223.6	211.1	207.1	205.8	205.1
2716.8	35°	1589.2	368.2	291.3	245.9	220.3	207.8	202.5	203.2	205.8	205.8
2759.5	37.5°	1453.1	350.4	289.3	236.0	205.8	194.6	197.9	203.8	201.2	201.2
2834.5	40°	1330.1	352.4	288.0	228.8	194.0	187.4	194.0	189.4	182.8	182.1
2925.9	42.5°	1236.1	368.9	285.4	222.9	186.7	182.1	179.5	172.3	171.6	172.9
3020.6	45°	1167.7	383.3	284.7	220.3	178.8	170.3	167.0	159.8	172.9	176.2
3059.4	47.5°	1086.9	383.3	284.7	211.1	165.7	162.4	157.1	149.3	162.4	165.7
3022.5	50°	982.3	359.0	273.5	200.5	155.2	153.2	144.0	134.1	131.5	133.5
2936.4	52.5°	850.2	314.9	245.2	186.1	144.7	140.7	129.5	122.3	120.3	120.3
2781.9	55°	699.6	263.7	207.1	165.0	133.5	126.2	118.4	115.1	113.1	111.8
2565.6	57.5°	568.7	216.3	166.3	146.6	123.0	113.7	111.1	107.2	103.9	101.9
2384.8	60°	466.8	170.3	137.4	130.2	112.4	103.9	103.2	98.0	89.4	88.1
2235.5	62.5°	360.3	124.9	115.7	113.1	101.9	94.7	93.4	82.8	69.7	67.1
2023.8	65°	254.5	97.3	93.4	99.3	90.7	84.2	80.9	65.1	51.3	49.3
1693.7	67.5°	178.8	81.5	73.6	86.8	78.9	70.4	68.4	55.2	42.7	41.4
1280.8	70°	127.6	66.4	60.5	74.3	63.1	61.8	57.9	46.0	34.8	33.5
633.8	72.5°	90.1	50.6	46.7	64.4	43.4	53.3	47.3	35.5	26.3	25.0
215.7	75°	66.4	36.2	32.9	37.5	31.6	40.1	33.5	23.7	16.4	15.8
97.3	77.5°	48.7	23.0	19.7	18.4	18.4	25.0	18.4	9.9	7.2	6.6
49.3	80°	34.2	10.5	9.2	7.9	7.2	5.9	2.6	1.3	0.7	0.7
17.1	82.5°	20.4	4.6	4.6	3.3	2.0	0.0	0.0	0.0	0.0	0.0
6.6	85°	4.6	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.6	87.5°	0.7	0.7	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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