

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: P947667

Luminaire Tested: **GALN-SB2D-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947667
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-SB2D-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA 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: 12070 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

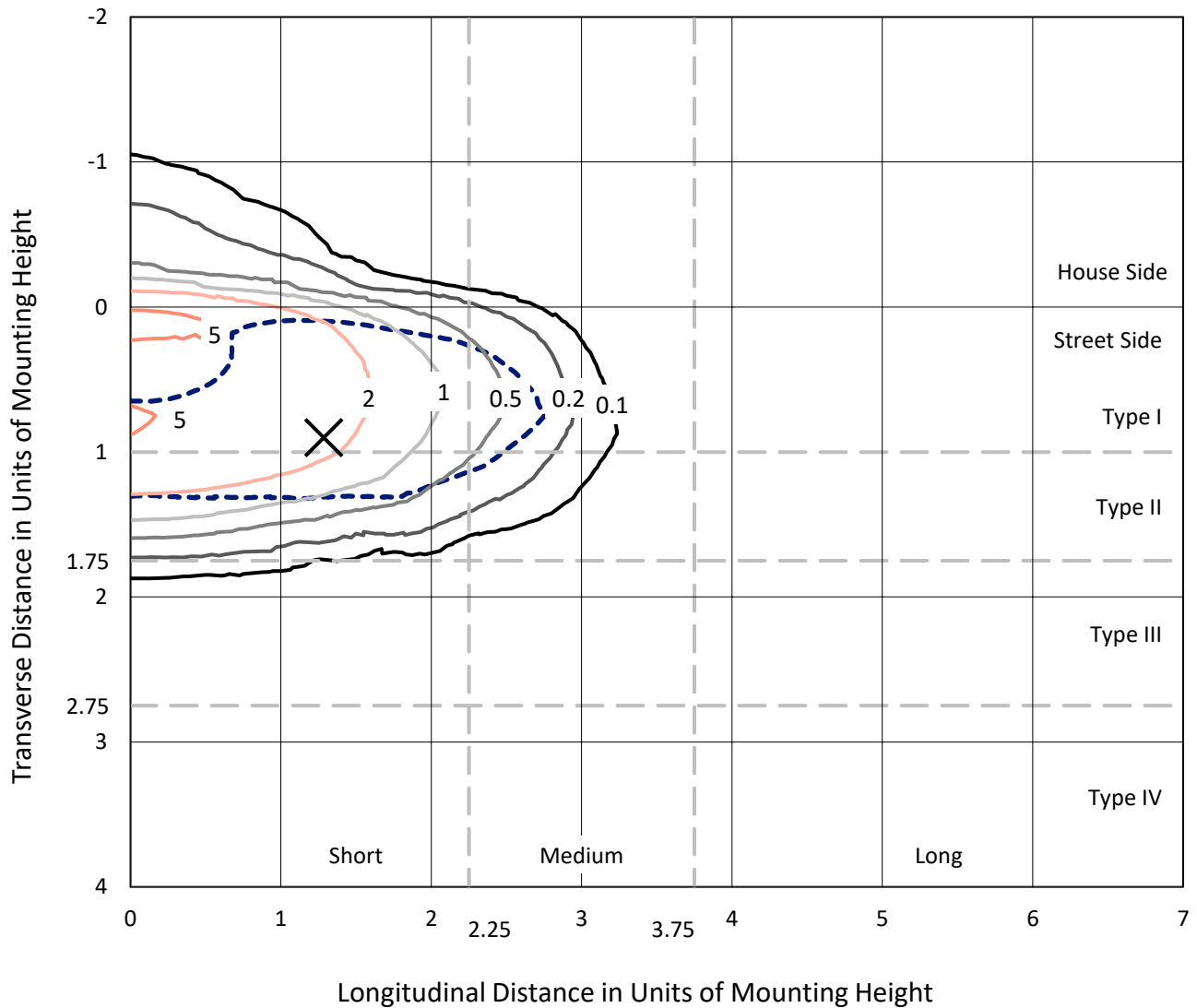
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

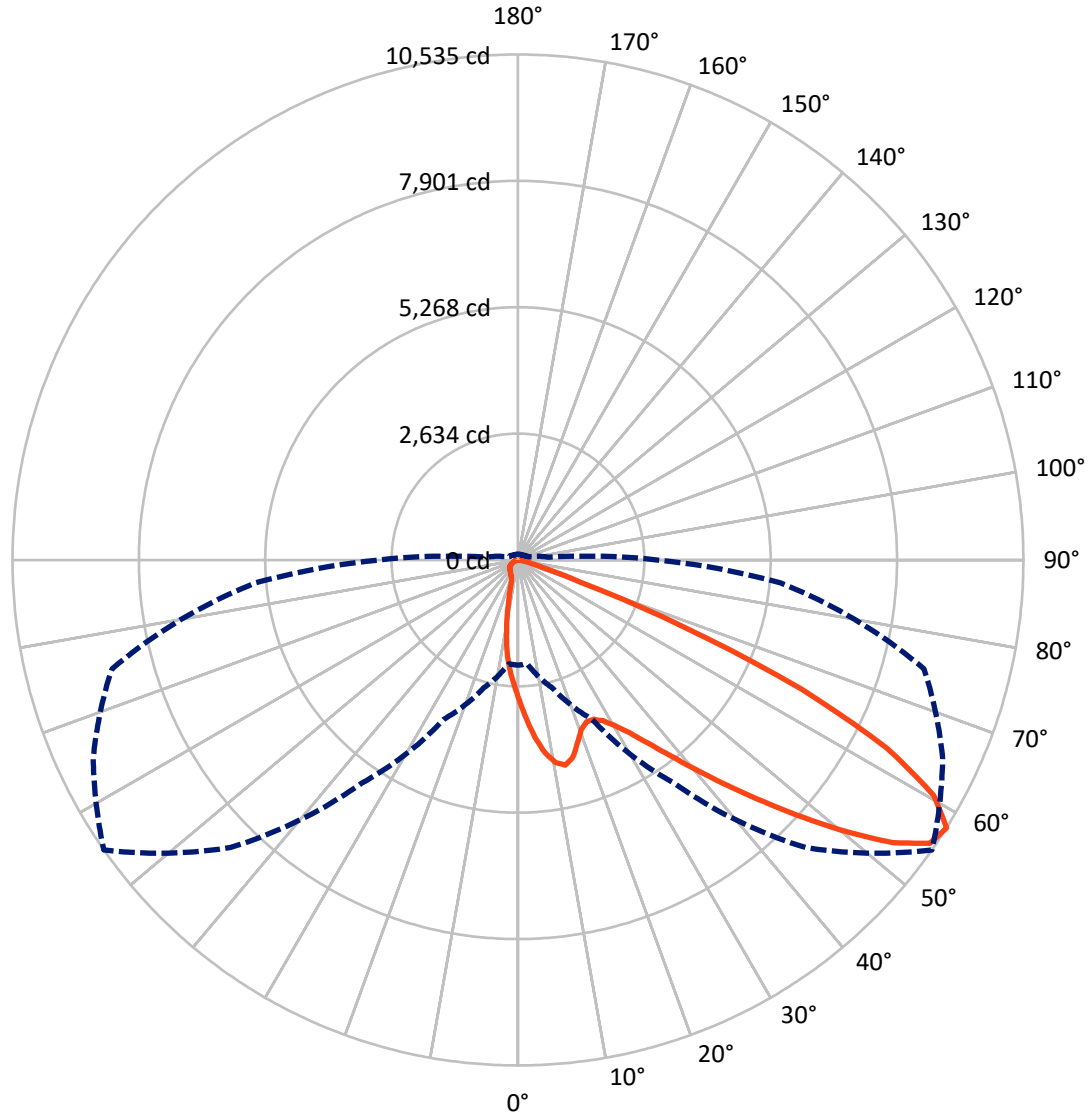
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	942.6	0.0	942.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	11127.4	0.0	11127.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	12070.0	0.0	12070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.6	2.2
10°-20°	653.7	5.4
20°-30°	1045.9	8.7
30°-40°	1770.3	14.7
40°-50°	2906.4	24.1
50°-60°	3194.3	26.5
60°-70°	1832.3	15.2
70°-80°	374.4	3.1
80°-90°	22.1	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°	12070.0	100.0
0°-180°	12070.0	100.0

Coefficient of Utilization



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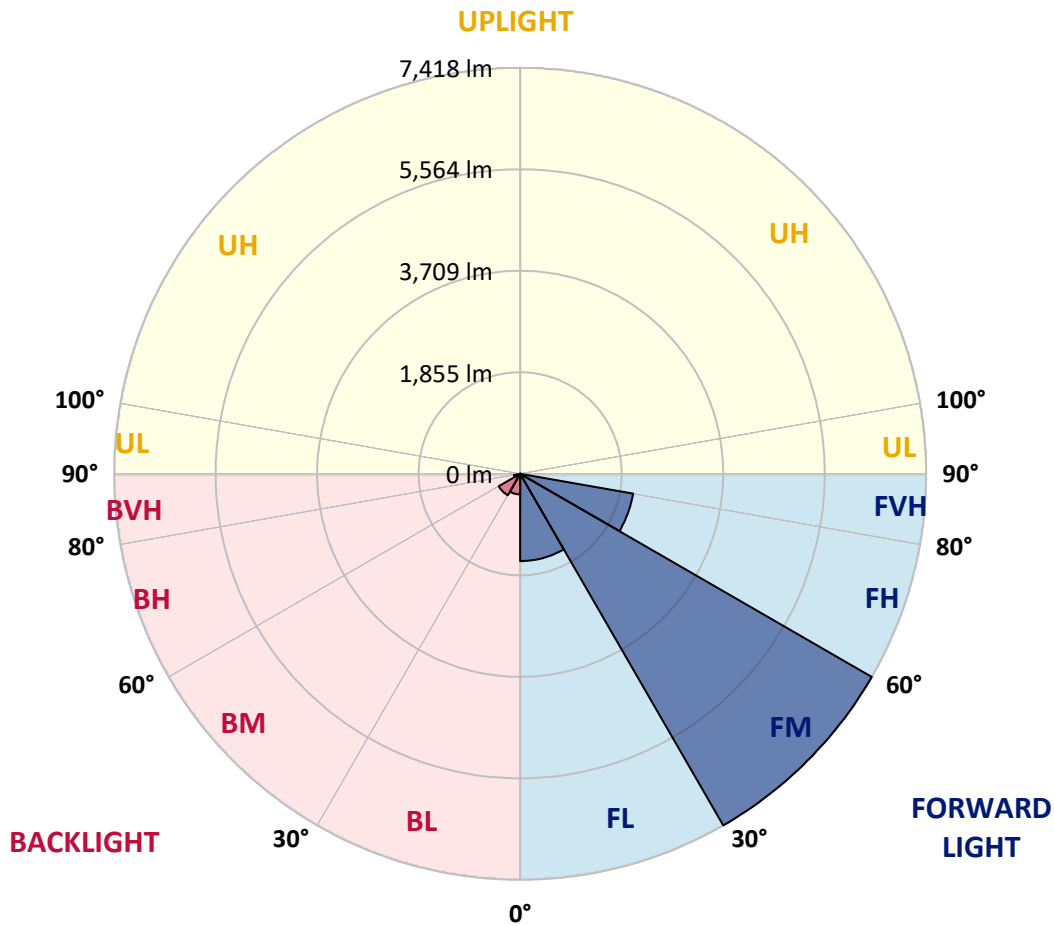
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.9	13.2			
FM (30°-60°)	7418.3	61.5			
FH (60°-80°)	2094.6	17.4			G2/5000
FVH (80°-90°)	20.6	0.2			G1/100
BL (0°-30°)	376.3	3.1	B1/500		
BM (30°-60°)	452.7	3.8	B1/1000		
BH (60°-80°)	112.1	0.9	B1/500		G1/500
BVH (80°-90°)	1.5	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°	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6
2.5°	3608.9	3563.5	3556.8	3547.9	3461.6	3396.8	3303.0	3200.3	3085.0	2967.4
5°	4169.4	4133.6	4126.9	4085.2	3987.0	3876.9	3710.1	3499.5	3284.4	3031.4
7.5°	4278.0	4271.3	4301.8	4300.3	4286.9	4199.9	4059.2	3808.4	3485.4	3110.3
10°	3793.5	3810.6	3901.4	3981.1	4196.1	4321.2	4290.7	4083.8	3692.3	3200.3
12.5°	3352.2	3332.1	3396.8	3486.9	3736.9	4109.1	4386.7	4313.7	3929.0	3302.3
15°	3075.3	3067.1	3103.6	3145.2	3335.8	3710.9	4275.0	4500.5	4156.7	3422.9
17.5°	2986.7	2980.0	2991.2	3001.6	3125.2	3415.4	4009.3	4615.2	4374.8	3560.5
20°	3058.9	3050.0	3048.5	3040.3	3091.7	3289.6	3768.9	4623.4	4570.5	3685.6
22.5°	3269.5	3259.1	3222.7	3189.9	3194.4	3306.8	3661.8	4541.5	4717.9	3802.4
25°	3651.3	3634.2	3558.3	3448.2	3378.2	3425.8	3678.1	4433.6	4858.5	3894.0
27.5°	4129.2	4106.8	4009.3	3845.6	3685.6	3627.5	3796.5	4359.1	4975.4	3963.9
30°	4597.3	4568.3	4472.3	4345.0	4111.3	3928.2	4010.1	4391.9	5114.6	4036.9
32.5°	5102.7	5075.1	4947.8	4790.1	4596.6	4350.2	4302.6	4551.9	5285.0	4138.8
35°	5742.0	5698.8	5518.0	5302.9	5097.4	4848.1	4698.5	4828.0	5512.0	4294.4
37.5°	6469.9	6411.8	6216.8	5919.9	5651.9	5372.8	5180.8	5207.6	5844.7	4502.8
40°	7156.1	7103.2	6923.1	6643.3	6306.9	5968.2	5763.6	5704.0	6303.9	4756.6
42.5°	7567.6	7520.0	7444.1	7325.8	7042.2	6696.9	6438.6	6309.8	6847.2	5060.2
45°	7590.7	7549.0	7651.0	7788.7	7732.9	7502.9	7188.1	6952.1	7392.7	5345.3
47.5°	7221.6	7193.3	7502.9	7983.7	8223.3	8320.1	8029.8	7540.9	7843.0	5550.0
50°	6215.3	6204.9	6842.0	7724.7	8410.2	9036.1	8917.7	8088.6	8192.1	5655.6
52.5°	5389.2	5351.2	5722.6	6895.6	8138.5	9412.7	9785.5	8626.0	8436.2	5675.7
55°	4087.5	4054.0	4519.9	5508.3	7262.5	9278.7	10420.4	9180.5	8611.1	5624.4
57.5°	2192.6	2171.8	2760.5	3666.2	5677.2	8474.9	10535.0	9766.9	8758.5	5488.2
60°	853.7	849.9	1070.2	1778.8	3450.4	6894.8	9956.7	10119.0	8850.8	5320.7
62.5°	516.5	527.7	563.4	798.6	1524.2	4283.2	8623.8	9718.6	8912.5	5167.4
65°	427.2	428.0	432.4	548.5	730.1	1792.2	6492.2	8401.2	8760.0	4894.3
67.5°	366.2	372.9	390.0	435.4	515.0	785.9	3737.7	6507.8	7831.9	4258.7
70°	288.8	297.7	319.3	358.0	397.4	492.0	1381.3	4330.1	5983.1	3210.0
72.5°	243.4	242.6	253.8	291.0	315.6	346.1	531.4	2426.3	3477.2	1532.4
75°	188.3	195.7	209.9	243.4	258.3	250.8	288.0	886.4	1245.9	464.4
77.5°	147.4	153.3	166.0	198.7	213.6	177.9	166.0	317.1	400.4	166.7
80°	66.2	71.4	113.1	146.6	174.2	122.8	90.1	162.2	177.9	75.9
82.5°	11.9	20.1	66.2	77.4	89.3	79.6	46.9	84.1	87.1	30.5
85°	0.7	1.5	23.1	28.3	35.7	26.0	14.1	33.5	29.0	10.4
87.5°	0.0	0.0	0.0	0.7	0.7	3.7	4.5	6.0	4.5	3.7
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°
2908.6	0°	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6	2908.6
2915.3	2.5°	2861.7	2756.0	2653.3	2569.2	2520.1	2436.7	2381.6	2372.7	2349.6	2369.7
2922.7	5°	2806.6	2617.6	2426.3	2255.1	2114.4	1932.8	1797.4	1740.1	1690.2	1707.3
2942.1	7.5°	2780.6	2482.1	2184.4	1891.9	1591.2	1301.0	1085.1	995.1	926.6	936.3
2963.6	10°	2745.6	2341.4	1874.8	1428.2	1025.6	739.1	590.2	535.1	504.6	505.4
2995.7	12.5°	2718.8	2173.2	1515.3	968.3	624.4	471.9	425.7	412.3	403.4	404.1
3044.0	15°	2705.4	1975.3	1160.3	645.3	446.6	399.7	388.5	382.6	376.6	375.9
3097.6	17.5°	2683.1	1755.0	849.2	471.1	390.7	374.4	364.7	358.0	350.5	349.1
3143.8	20°	2649.6	1504.9	620.7	398.2	366.2	353.5	340.1	331.2	322.3	320.8
3172.8	22.5°	2587.8	1240.7	477.1	368.4	348.3	334.2	317.8	307.4	298.4	297.0
3158.6	25°	2473.2	992.8	401.9	349.8	332.7	315.6	297.7	283.6	275.4	273.9
3128.1	27.5°	2328.0	780.0	364.7	332.7	312.6	297.0	276.9	263.5	256.0	254.5
3087.9	30°	2156.9	600.6	343.1	313.3	288.8	275.4	257.5	246.4	241.9	241.9
3059.7	32.5°	1972.3	480.0	334.2	294.0	267.9	253.0	238.9	234.4	233.0	232.2
3075.3	35°	1798.9	416.8	329.7	278.4	249.3	235.2	229.2	230.0	233.0	233.0
3123.7	37.5°	1644.8	396.7	327.5	267.2	233.0	220.3	224.0	230.7	227.7	227.7
3208.5	40°	1505.6	398.9	326.0	259.0	219.6	212.1	219.6	214.3	206.9	206.2
3312.0	42.5°	1399.2	417.5	323.0	252.3	211.4	206.2	203.2	195.0	194.3	195.7
3419.1	45°	1321.8	433.9	322.3	249.3	202.4	192.8	189.0	180.9	195.7	199.5
3463.0	47.5°	1230.3	433.9	322.3	238.9	187.6	183.8	177.9	168.9	183.8	187.6
3421.4	50°	1111.9	406.4	309.6	227.0	175.6	173.4	163.0	151.8	148.9	151.1
3323.9	52.5°	962.3	356.5	277.6	210.6	163.7	159.3	146.6	138.4	136.2	136.2
3149.0	55°	791.9	298.4	234.4	186.8	151.1	142.9	134.0	130.2	128.0	126.5
2904.1	57.5°	643.8	244.9	188.3	166.0	139.2	128.8	125.8	121.3	117.6	115.4
2699.4	60°	528.4	192.8	155.6	147.4	127.3	117.6	116.8	110.9	101.2	99.7
2530.5	62.5°	407.9	141.4	131.0	128.0	115.4	107.2	105.7	93.8	78.9	75.9
2290.8	65°	288.0	110.2	105.7	112.4	102.7	95.3	91.5	73.7	58.1	55.8
1917.2	67.5°	202.4	92.3	83.4	98.2	89.3	79.6	77.4	62.5	48.4	46.9
1449.8	70°	144.4	75.2	68.5	84.1	71.4	70.0	65.5	52.1	39.4	38.0
717.5	72.5°	102.0	57.3	52.8	72.9	49.1	60.3	53.6	40.2	29.8	28.3
244.1	75°	75.2	40.9	37.2	42.4	35.7	45.4	38.0	26.8	18.6	17.9
110.2	77.5°	55.1	26.0	22.3	20.8	20.8	28.3	20.8	11.2	8.2	7.4
55.8	80°	38.7	11.9	10.4	8.9	8.2	6.7	3.0	1.5	0.7	0.7
19.4	82.5°	23.1	5.2	5.2	3.7	2.2	0.0	0.0	0.0	0.0	0.0
7.4	85°	5.2	2.2	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
3.0	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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