

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: P945710

Luminaire Tested: **GALN-SB1C-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5018 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

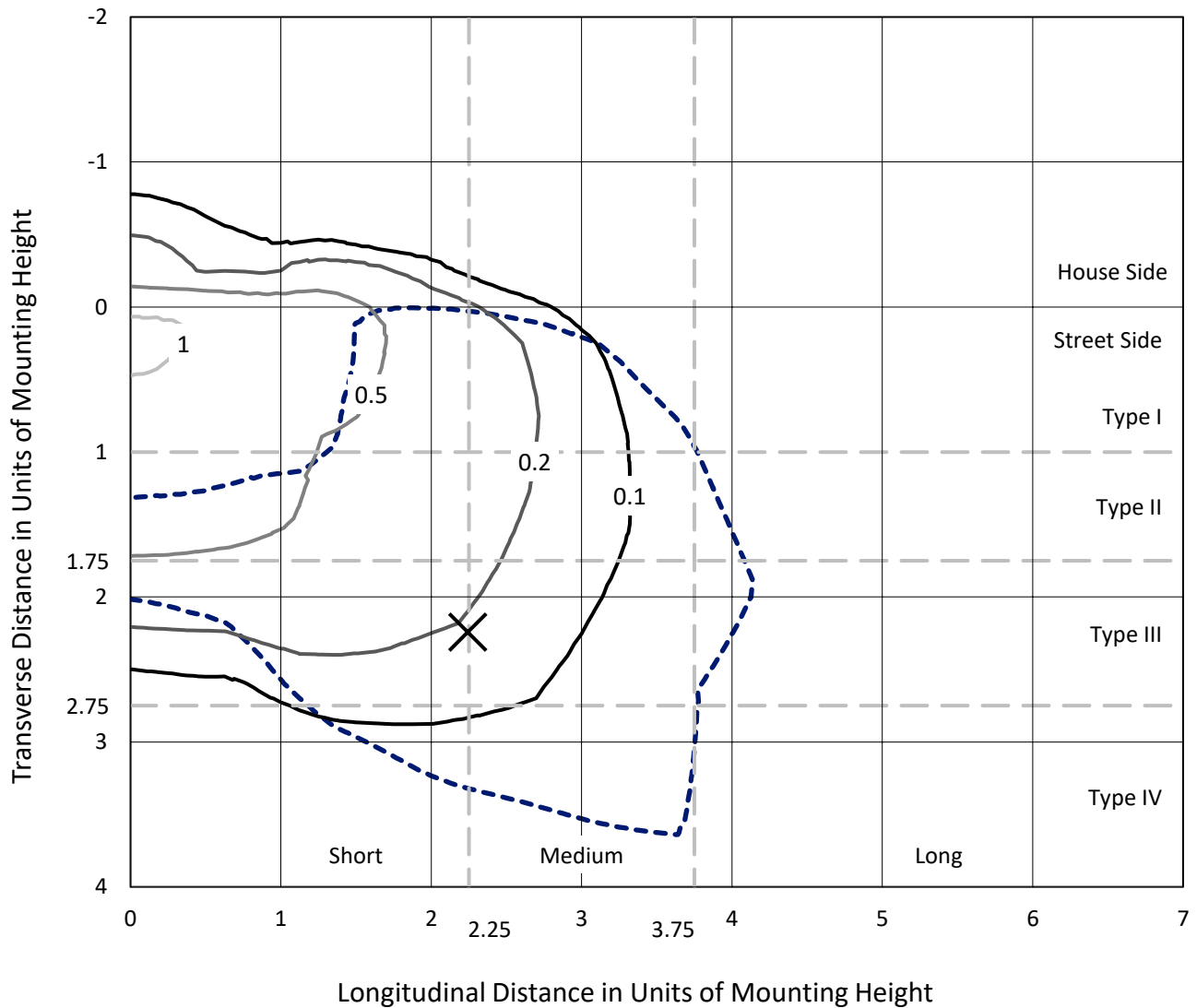
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

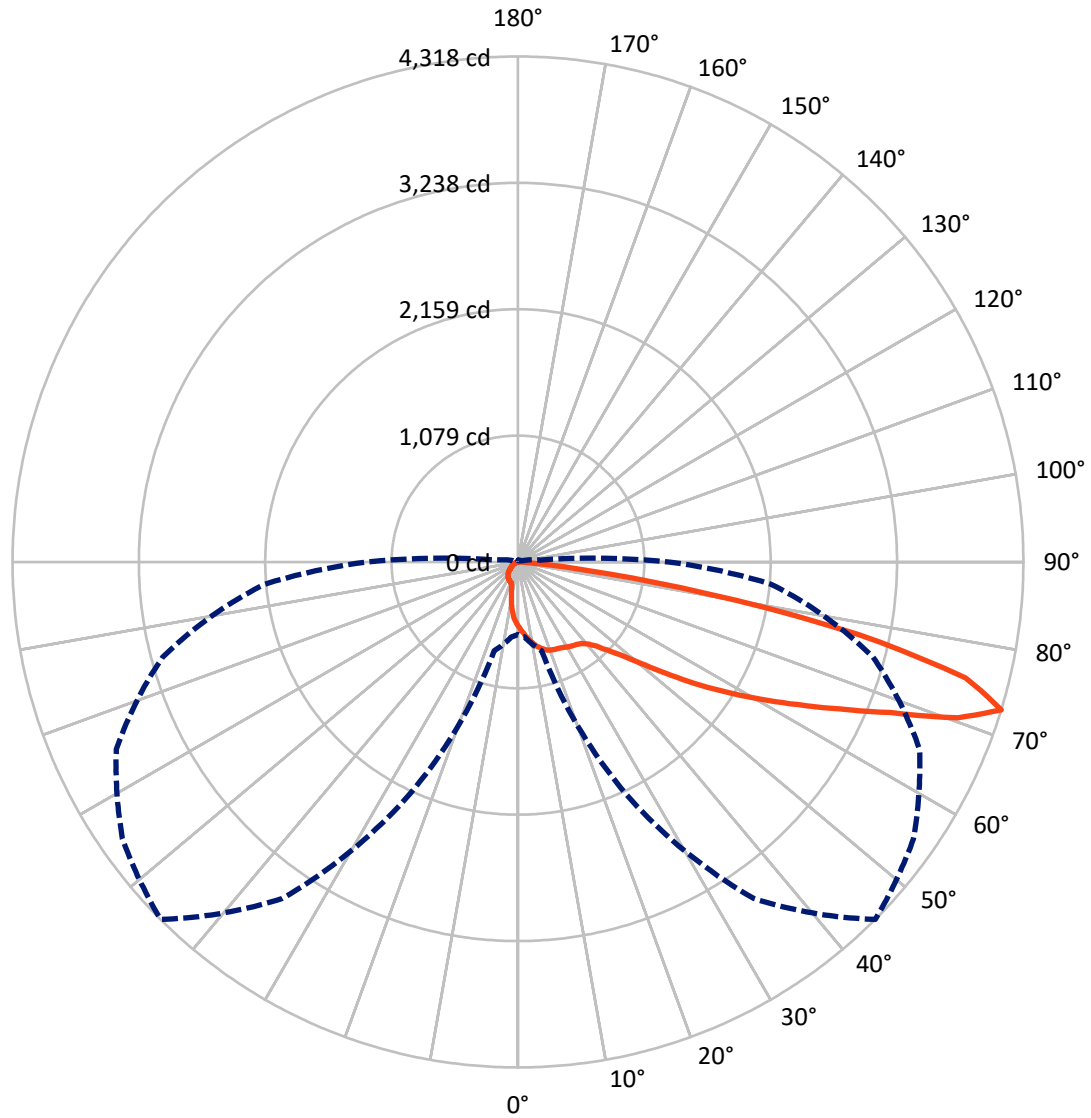
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	527.3	0.0	527.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4490.7	0.0	4490.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	5018.0	0.0	5018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	1.0
10°-20°	151.4	3.0
20°-30°	248.6	5.0
30°-40°	352.6	7.0
40°-50°	582.7	11.6
50°-60°	1046.8	20.9
60°-70°	1453.6	29.0
70°-80°	1054.4	21.0
80°-90°	76.2	1.5
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°	5018.0	100.0
0°-180°	5018.0	100.0

Coefficient of Utilization



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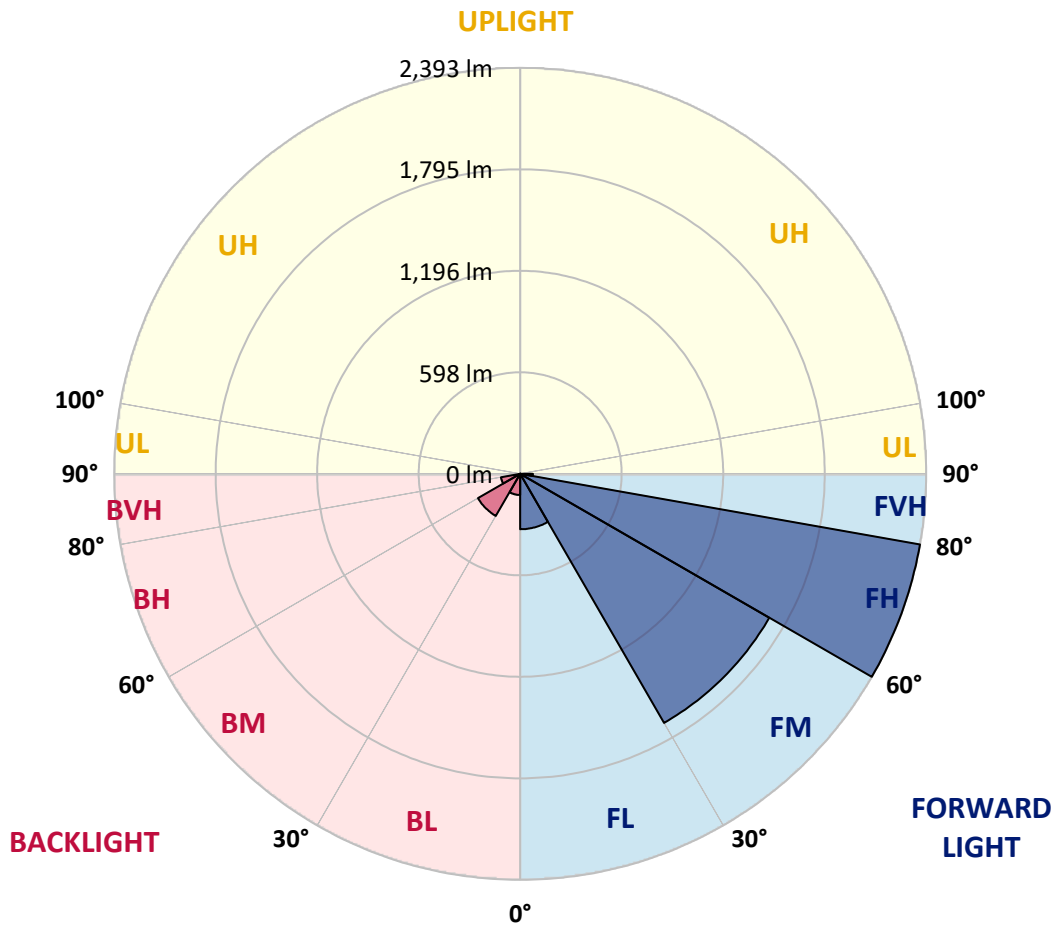
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.9	6.5			
FM (30°-60°)	1695.3	33.8			
FH (60°-80°)	2392.9	47.7			G2/5000
FVH (80°-90°)	75.6	1.5			G1/100
BL (0°-30°)	124.9	2.5	B1/500		
BM (30°-60°)	286.8	5.7	B1/1000		
BH (60°-80°)	115.0	2.3	B1/500		G1/500
BVH (80°-90°)	0.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7
2.5°	600.4	601.5	600.8	596.7	589.8	586.0	584.0	577.1	572.7	564.8
5°	655.6	659.7	657.3	649.1	636.0	626.8	624.1	610.0	597.3	582.6
7.5°	714.1	716.2	711.7	701.1	683.7	667.9	665.5	646.0	625.8	603.2
10°	764.8	767.2	760.4	745.0	725.1	705.6	702.2	680.6	656.6	628.9
12.5°	807.3	809.7	800.8	782.3	760.4	740.2	736.7	714.1	687.8	656.9
15°	839.5	844.0	832.0	812.1	788.5	768.3	766.5	744.3	718.6	684.3
17.5°	858.3	862.8	851.5	827.5	807.3	790.2	788.1	769.6	745.6	712.8
20°	861.4	865.5	853.5	832.6	815.9	802.2	801.1	787.8	770.3	738.8
22.5°	852.2	857.3	846.3	829.6	817.9	810.7	809.4	801.8	791.9	765.2
25°	842.6	846.7	838.5	823.7	817.6	816.9	817.9	816.5	814.5	791.9
27.5°	841.9	846.3	837.1	823.1	819.6	826.8	827.9	834.4	836.1	816.2
30°	847.7	850.8	841.9	827.2	825.5	841.9	842.2	853.9	856.6	836.8
32.5°	860.4	863.8	854.9	833.3	830.9	853.9	854.9	870.3	874.8	858.7
35°	890.2	894.3	884.0	850.5	841.9	865.2	868.3	886.4	895.3	882.0
37.5°	964.5	952.5	938.5	885.1	866.9	883.0	888.1	909.4	925.1	909.7
40°	1149.1	1111.5	1067.6	944.0	910.7	921.0	925.1	946.4	967.9	952.9
42.5°	1426.2	1381.7	1311.1	1079.6	976.8	982.0	985.1	1003.6	1034.0	1022.1
45°	1673.2	1657.1	1585.1	1311.1	1100.5	1075.1	1078.9	1088.5	1133.4	1128.9
47.5°	1862.9	1853.7	1798.2	1576.9	1309.4	1189.2	1199.8	1204.3	1269.0	1284.8
50°	2008.8	2005.4	1955.7	1813.3	1582.4	1357.4	1361.1	1351.6	1448.5	1487.5
52.5°	2146.5	2158.2	2121.5	2032.8	1873.9	1577.6	1576.9	1531.7	1662.6	1721.5
55°	2270.9	2275.0	2278.7	2256.8	2167.1	1828.3	1821.8	1747.8	1910.9	1971.8
57.5°	2387.7	2389.4	2422.9	2467.8	2472.3	2097.5	2085.6	1996.8	2182.1	2225.6
60°	2466.1	2474.0	2544.9	2669.5	2724.0	2375.3	2368.8	2278.4	2458.2	2478.4
62.5°	2353.1	2401.0	2579.8	2827.1	2961.7	2683.2	2680.2	2595.2	2748.7	2732.2
65°	1904.7	1985.9	2300.3	2933.6	3195.0	3027.1	3031.6	2941.2	3047.0	2993.6
67.5°	1332.4	1418.0	1790.0	2942.2	3455.6	3430.9	3456.6	3314.8	3363.8	3243.9
70°	921.4	965.5	1207.7	2757.9	3658.7	3987.2	3986.5	3773.8	3678.9	3358.0
72.5°	619.6	642.6	784.4	2188.0	3509.4	4317.7	4297.8	4124.5	3785.1	3140.5
75°	261.3	278.1	363.1	1229.6	2776.4	3950.2	3896.4	3645.0	3363.1	2472.9
77.5°	82.9	90.1	143.2	440.1	1529.3	2969.2	2912.4	2276.3	2254.1	1240.6
80°	39.4	45.9	80.5	176.7	601.8	1614.9	1607.1	1032.7	969.7	335.0
82.5°	17.1	20.2	44.5	94.5	269.2	576.1	587.8	351.4	290.8	127.1
85°	5.5	7.2	20.6	43.5	113.7	143.2	141.5	83.6	117.1	69.2
87.5°	0.0	0.0	6.9	9.9	11.6	8.2	9.2	7.2	32.5	19.2
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
549.7	0°	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7	549.7
556.6	2.5°	552.5	547.0	537.4	528.5	520.6	512.7	507.9	501.1	500.4	500.4
565.5	5°	556.2	547.3	530.2	512.1	491.2	471.3	451.4	432.3	426.1	421.6
579.9	7.5°	567.2	553.2	526.1	491.5	451.8	408.3	377.8	344.9	332.2	325.4
599.1	10°	583.0	563.8	522.7	462.0	397.7	338.4	294.9	259.3	245.6	239.8
619.9	12.5°	600.4	576.8	516.5	425.4	338.4	267.5	225.0	208.6	206.5	206.5
645.0	15°	621.3	592.5	505.9	382.2	276.4	211.7	196.6	197.3	199.3	200.7
669.3	17.5°	642.9	609.3	489.1	333.9	221.6	190.4	190.8	191.8	193.5	194.9
695.6	20°	666.2	626.1	466.8	282.6	190.1	184.3	185.3	186.3	187.7	188.4
720.3	22.5°	691.2	641.9	440.5	232.2	179.5	179.1	179.5	180.5	182.2	182.2
749.1	25°	717.9	659.3	410.3	195.6	174.0	174.0	174.7	175.4	176.7	176.7
776.8	27.5°	745.3	675.4	378.5	176.4	169.2	168.9	168.9	169.9	170.6	170.9
804.2	30°	775.4	694.3	346.6	172.3	165.4	163.7	162.7	163.4	164.1	164.4
833.0	32.5°	806.3	712.4	318.2	174.0	161.7	158.6	155.2	154.5	154.5	155.8
862.8	35°	840.5	732.3	296.3	179.8	159.6	151.0	145.6	142.5	142.8	144.9
898.4	37.5°	881.6	756.3	280.2	185.0	158.2	142.5	133.6	129.8	127.4	129.8
947.4	40°	935.4	791.5	268.5	189.1	156.5	132.6	120.6	114.4	109.9	111.3
1023.4	42.5°	1014.5	847.0	264.1	189.4	152.8	120.9	107.2	99.0	92.5	92.8
1137.8	45°	1125.5	934.7	287.0	185.0	144.5	108.2	93.2	82.2	78.1	77.1
1308.7	47.5°	1277.6	1062.5	340.1	175.7	132.6	95.9	79.5	70.2	67.1	65.4
1533.1	50°	1481.4	1226.5	399.0	165.4	120.6	84.3	68.2	62.3	60.3	58.6
1799.2	52.5°	1717.7	1393.0	447.3	155.2	108.6	74.0	61.0	57.5	55.8	54.5
2056.1	55°	1934.5	1507.7	444.6	144.2	96.9	65.8	55.8	53.8	51.7	50.3
2277.4	57.5°	2069.5	1523.8	366.5	132.2	83.6	59.3	51.0	49.7	47.3	45.6
2468.8	60°	2131.5	1432.0	256.9	116.5	70.2	53.1	45.9	45.2	42.1	39.7
2650.0	62.5°	2142.8	1261.5	171.3	96.9	58.6	47.3	40.8	39.7	35.6	31.5
2797.3	65°	2096.9	1017.6	118.5	75.7	50.0	41.1	34.9	32.9	28.4	24.3
2832.2	67.5°	1951.6	714.5	82.5	54.5	42.5	32.5	27.7	27.1	23.6	20.2
2654.1	70°	1685.5	407.2	55.1	40.8	33.6	22.3	21.9	22.6	19.2	16.4
2168.4	72.5°	1292.3	186.3	34.3	29.8	22.9	15.1	17.5	17.8	14.7	12.3
1352.9	75°	760.7	79.8	21.6	19.2	11.6	9.9	12.7	13.0	9.9	7.9
494.6	77.5°	258.9	30.1	13.7	11.3	5.8	5.5	8.2	8.2	5.5	3.1
99.3	80°	58.9	11.3	6.9	4.5	2.7	2.4	2.7	2.4	1.4	0.3
30.5	82.5°	16.8	4.5	2.7	1.7	1.0	1.0	0.3	0.0	0.0	0.0
10.6	85°	4.8	2.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
3.8	87.5°	2.1	0.3	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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<u>180°</u>
549.7
502.1
423.7
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239.8
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177.1
171.3
165.1
156.9
145.9
129.1
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58.2
54.1
49.7
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