

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: P945267

Luminaire Tested: **GALN-SB1B-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4690 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

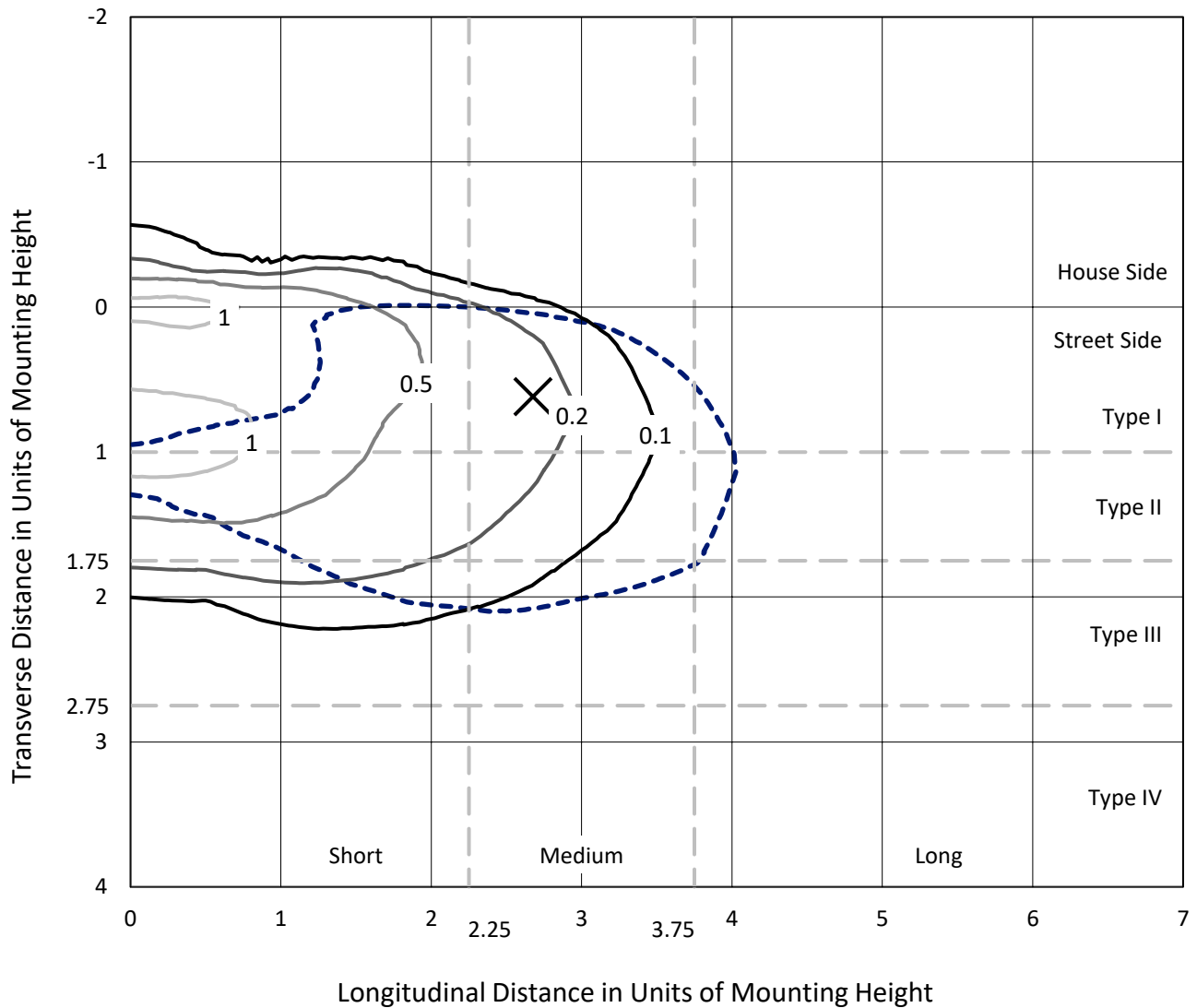
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

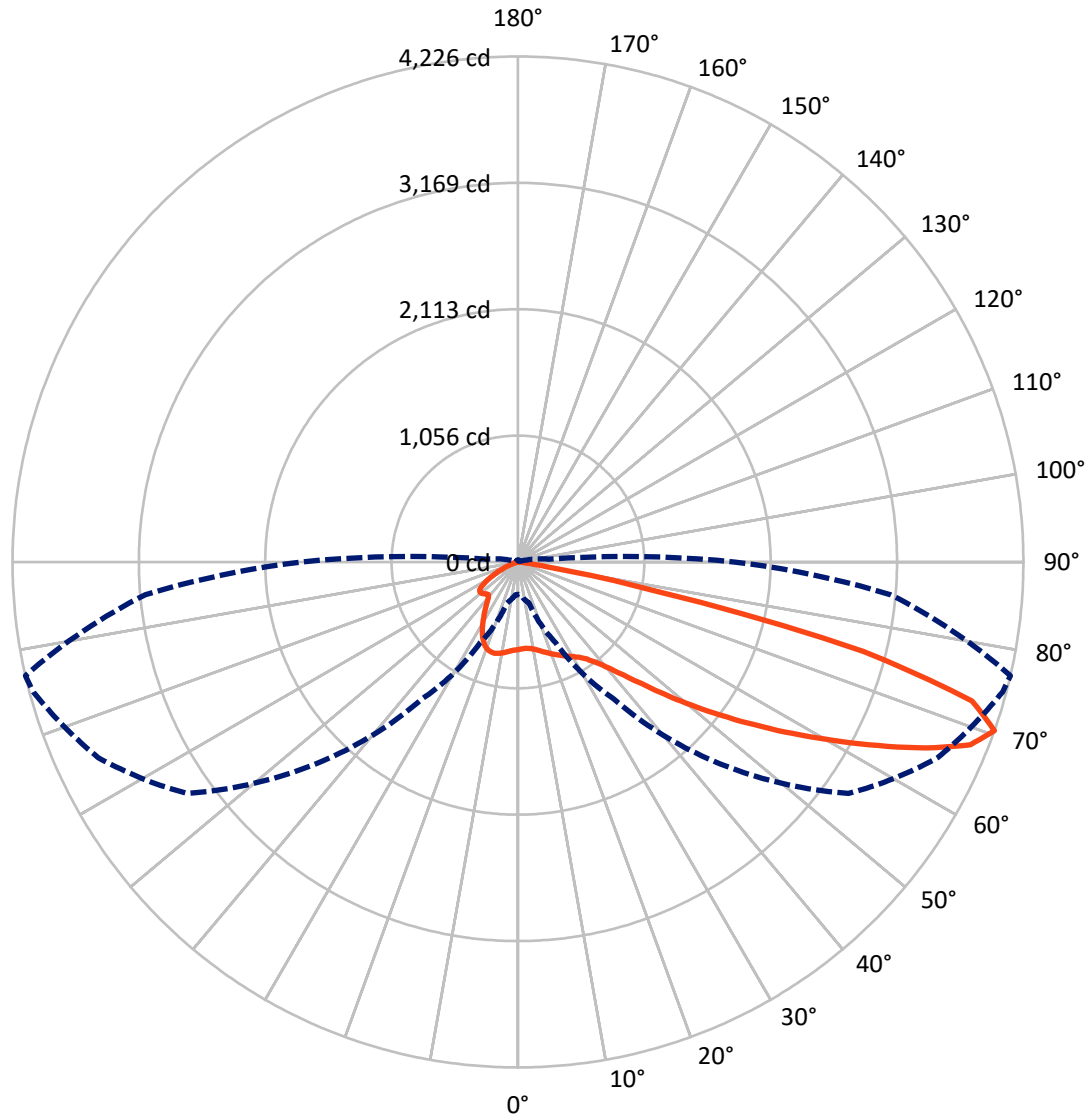
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.4	0.0	494.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4195.6	0.0	4195.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	4690.0	0.0	4690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.3
10°-20°	149.7	3.2
20°-30°	231.5	4.9
30°-40°	420.1	9.0
40°-50°	792.9	16.9
50°-60°	1145.7	24.4
60°-70°	1219.6	26.0
70°-80°	646.3	13.8
80°-90°	21.2	0.5
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°	4690.0	100.0
0°-180°	4690.0	100.0

Coefficient of Utilization



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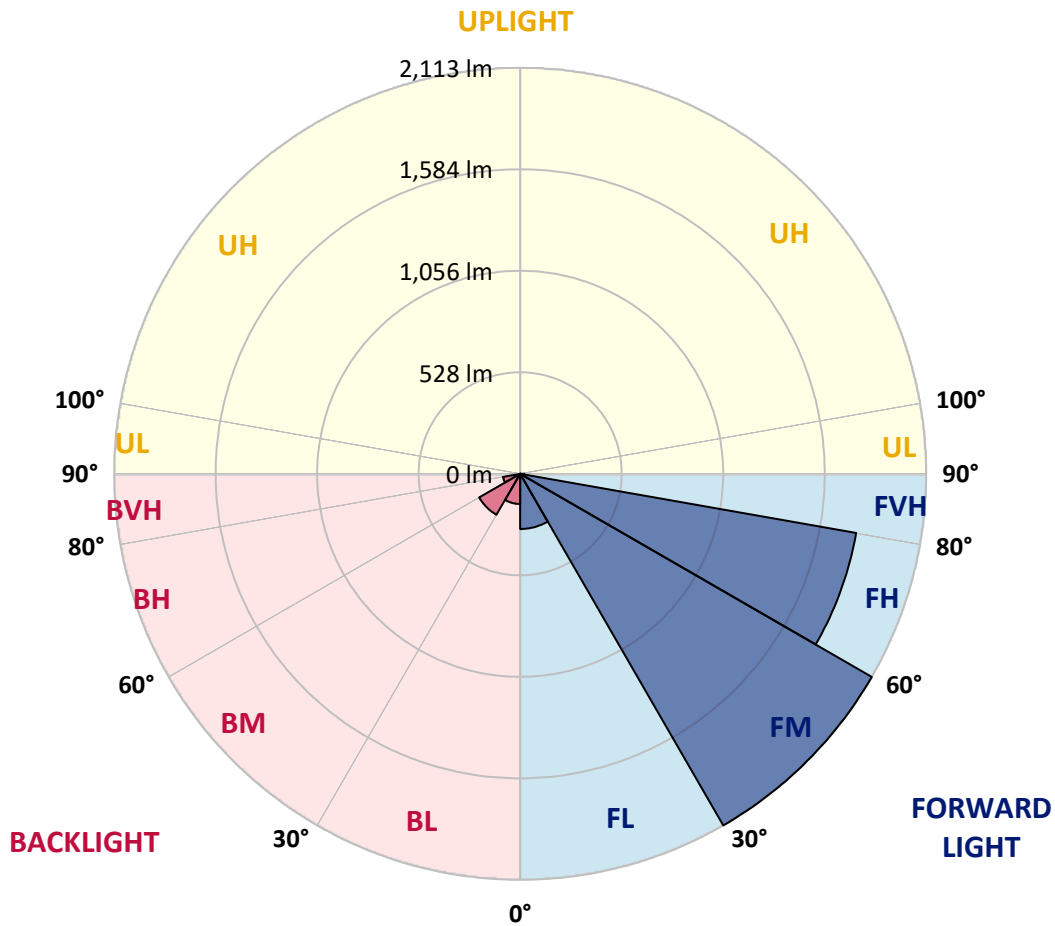
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.1	6.1			
FM (30°-60°)	2112.6	45.0			
FH (60°-80°)	1775.2	37.9			G1/1800
FVH (80°-90°)	20.7	0.4			G1/100
BL (0°-30°)	157.1	3.3	B1/500		
BM (30°-60°)	246.1	5.2	B1/1000		
BH (60°-80°)	90.6	1.9	B0/110		G0/110
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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
2.5°	686.8	693.1	692.2	696.3	697.8	703.7	709.6	717.6	726.5	726.2
5°	648.0	654.3	655.7	661.4	668.5	677.7	689.8	705.8	722.4	725.0
7.5°	602.1	608.6	612.5	623.7	636.8	655.7	675.6	699.0	726.5	730.4
10°	556.2	562.1	567.2	583.2	603.9	632.0	664.3	698.1	735.1	740.7
12.5°	527.8	533.4	539.0	553.0	578.7	613.1	656.9	702.2	749.3	757.3
15°	517.7	522.8	527.2	539.6	563.6	602.7	655.4	710.8	767.4	778.1
17.5°	519.2	521.9	524.8	534.3	557.7	598.0	658.1	725.6	788.7	798.2
20°	527.8	529.3	529.6	536.1	556.8	597.4	663.4	739.8	808.9	821.6
22.5°	538.7	539.3	538.7	543.2	562.4	601.8	670.5	757.0	831.4	843.2
25°	590.0	578.7	564.5	555.9	571.9	610.4	681.2	780.1	855.9	867.5
27.5°	749.0	716.7	665.8	608.6	591.5	622.9	696.0	803.5	880.8	891.2
30°	1007.3	964.9	878.5	749.6	654.3	648.9	715.3	826.9	907.2	918.4
32.5°	1266.2	1255.8	1156.0	977.7	795.5	707.0	747.3	858.6	942.1	951.0
35°	1528.0	1506.9	1425.2	1249.0	1013.2	825.1	800.6	900.1	988.0	998.1
37.5°	1728.5	1715.7	1665.1	1520.0	1271.5	1007.6	891.8	964.3	1054.7	1065.9
40°	1905.6	1899.7	1882.5	1786.8	1560.3	1246.3	1033.7	1063.9	1147.1	1160.4
42.5°	2044.8	2058.7	2068.5	2041.8	1857.9	1518.8	1224.4	1203.7	1275.9	1289.6
45°	2187.3	2192.0	2231.4	2269.9	2153.5	1803.7	1439.4	1367.4	1436.2	1453.0
47.5°	2278.8	2297.7	2367.0	2434.9	2402.0	2086.3	1670.4	1560.8	1621.9	1653.6
50°	2285.6	2321.4	2416.8	2535.0	2583.0	2355.2	1921.6	1781.2	1846.1	1881.0
52.5°	2172.2	2227.8	2375.6	2548.6	2680.7	2583.0	2181.3	2001.6	2084.8	2130.4
55°	1665.4	1738.3	2220.7	2474.6	2684.5	2755.6	2434.3	2231.1	2350.8	2402.3
57.5°	1451.0	1487.7	1746.0	2346.0	2613.2	2825.2	2662.9	2449.7	2640.1	2704.1
60°	1207.2	1255.5	1464.3	2135.7	2516.3	2832.0	2864.9	2731.6	2953.8	3025.7
62.5°	820.4	872.8	1080.5	1774.4	2383.9	2828.8	3030.5	3021.9	3302.4	3379.7
65°	508.2	541.1	677.9	1448.9	2198.8	2832.3	3203.7	3374.3	3670.2	3748.7
67.5°	401.6	416.7	488.1	1112.4	1879.8	2752.4	3376.7	3705.8	4016.4	4078.6
70°	269.8	279.0	355.1	745.8	1398.5	2383.3	3373.4	3872.2	4194.7	4225.8
72.5°	142.2	149.3	207.6	345.3	844.7	1694.1	2843.6	3673.2	4017.3	3970.5
75°	71.1	82.9	139.8	175.3	360.7	944.8	1765.8	2896.0	3162.0	2980.7
77.5°	53.9	65.2	115.5	115.5	125.6	318.1	747.8	1579.5	1456.9	1213.1
80°	34.4	44.4	101.0	87.4	52.4	80.9	194.9	442.5	309.5	235.5
82.5°	20.1	29.0	84.1	57.8	29.3	29.9	55.1	94.2	80.3	62.5
85°	8.0	19.0	57.8	22.8	11.6	7.4	16.6	20.1	16.6	12.4
87.5°	0.0	4.4	10.1	0.0	0.9	0.6	1.2	1.5	1.5	1.2
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°
731.6	0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
732.1	2.5°	734.8	735.4	737.2	737.5	733.3	728.0	725.9	725.0	721.5	721.2
736.9	5°	743.7	746.4	743.7	736.0	717.6	691.9	672.3	656.3	641.8	637.4
753.2	7.5°	761.5	764.1	756.1	725.9	679.7	628.5	582.3	549.7	520.4	509.4
773.0	10°	786.9	790.5	765.3	704.3	622.6	540.2	462.0	406.9	364.0	346.5
800.0	12.5°	818.9	820.4	770.4	671.4	548.2	430.6	319.9	260.9	222.7	208.5
832.6	15°	854.2	852.1	770.9	626.7	446.9	304.5	208.8	171.5	156.1	151.3
865.1	17.5°	891.2	882.6	759.1	562.1	335.9	208.2	154.9	146.0	143.3	142.2
897.4	20°	927.6	908.4	737.5	477.7	241.1	155.5	140.7	138.0	136.5	135.9
930.0	22.5°	960.8	927.9	700.5	379.7	175.0	137.4	133.0	130.6	127.9	126.8
961.7	25°	993.1	939.2	648.3	288.2	140.1	128.5	125.0	120.5	117.0	115.5
995.7	27.5°	1024.5	946.3	583.2	213.2	125.0	120.2	113.7	107.5	104.8	104.3
1032.2	30°	1057.9	948.7	509.1	159.0	115.8	109.9	100.4	93.3	91.8	92.1
1081.3	32.5°	1098.8	952.2	434.5	130.3	108.1	97.4	86.2	78.8	77.6	78.8
1153.0	35°	1147.7	959.3	362.5	120.0	101.3	84.7	72.6	66.3	65.2	66.0
1244.8	37.5°	1214.0	970.9	295.3	117.9	95.7	74.0	61.0	56.0	56.0	56.3
1357.4	40°	1302.3	1001.7	235.2	116.4	92.7	66.0	51.5	49.5	50.3	50.9
1500.7	42.5°	1409.8	1067.1	194.6	114.6	89.4	62.5	46.8	45.9	47.4	48.0
1672.5	45°	1530.3	1150.1	180.4	111.7	86.5	64.9	44.7	43.5	45.3	45.6
1865.0	47.5°	1655.0	1231.2	178.6	108.4	83.5	68.4	44.1	41.5	43.5	43.8
2070.6	50°	1781.2	1284.2	180.4	103.4	78.8	68.4	44.4	39.4	41.2	42.1
2283.8	52.5°	1908.3	1308.5	179.2	92.4	70.5	64.3	44.4	37.6	39.4	40.0
2514.2	55°	2031.5	1303.8	161.1	76.1	59.8	56.9	43.2	36.1	37.3	37.6
2731.9	57.5°	2128.9	1237.7	127.7	59.2	48.6	47.4	39.4	34.4	35.2	34.9
2931.6	60°	2179.9	1092.6	91.2	45.6	38.2	37.3	34.7	32.0	32.6	31.1
3100.7	62.5°	2180.4	900.7	61.0	36.1	30.5	29.6	29.6	28.7	28.1	25.2
3231.6	65°	2133.9	687.7	40.6	28.7	24.6	23.1	24.9	24.6	22.5	18.4
3271.6	67.5°	2028.5	450.8	30.8	22.5	19.0	18.1	19.8	20.7	19.3	15.4
3125.8	70°	1811.7	262.4	25.5	17.5	14.2	13.3	16.0	17.8	16.0	12.4
2671.8	72.5°	1504.9	141.6	20.7	13.0	9.8	8.9	12.7	14.5	12.7	9.2
1714.3	75°	976.5	75.8	16.0	8.6	5.0	5.6	9.5	10.7	8.9	5.9
503.2	77.5°	327.9	33.5	10.1	4.1	2.4	2.4	5.6	6.5	4.1	2.1
91.5	80°	73.2	13.9	4.1	1.8	0.9	0.9	1.2	1.2	0.6	0.0
28.1	82.5°	24.0	5.6	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
7.1	85°	9.2	2.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.4	87.5°	3.6	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>
731.6
721.8
634.7
505.0
339.1
204.1
151.3
141.9
135.4
126.5
114.9
103.7
92.1
78.5
65.8
56.0
50.9
48.0
45.9
44.1
42.4
40.0
37.6
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