

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: P939131

Luminaire Tested: **GALN-SB1C-830-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4699 lumens
Efficiency: N/A
Efficacy: 86.4 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

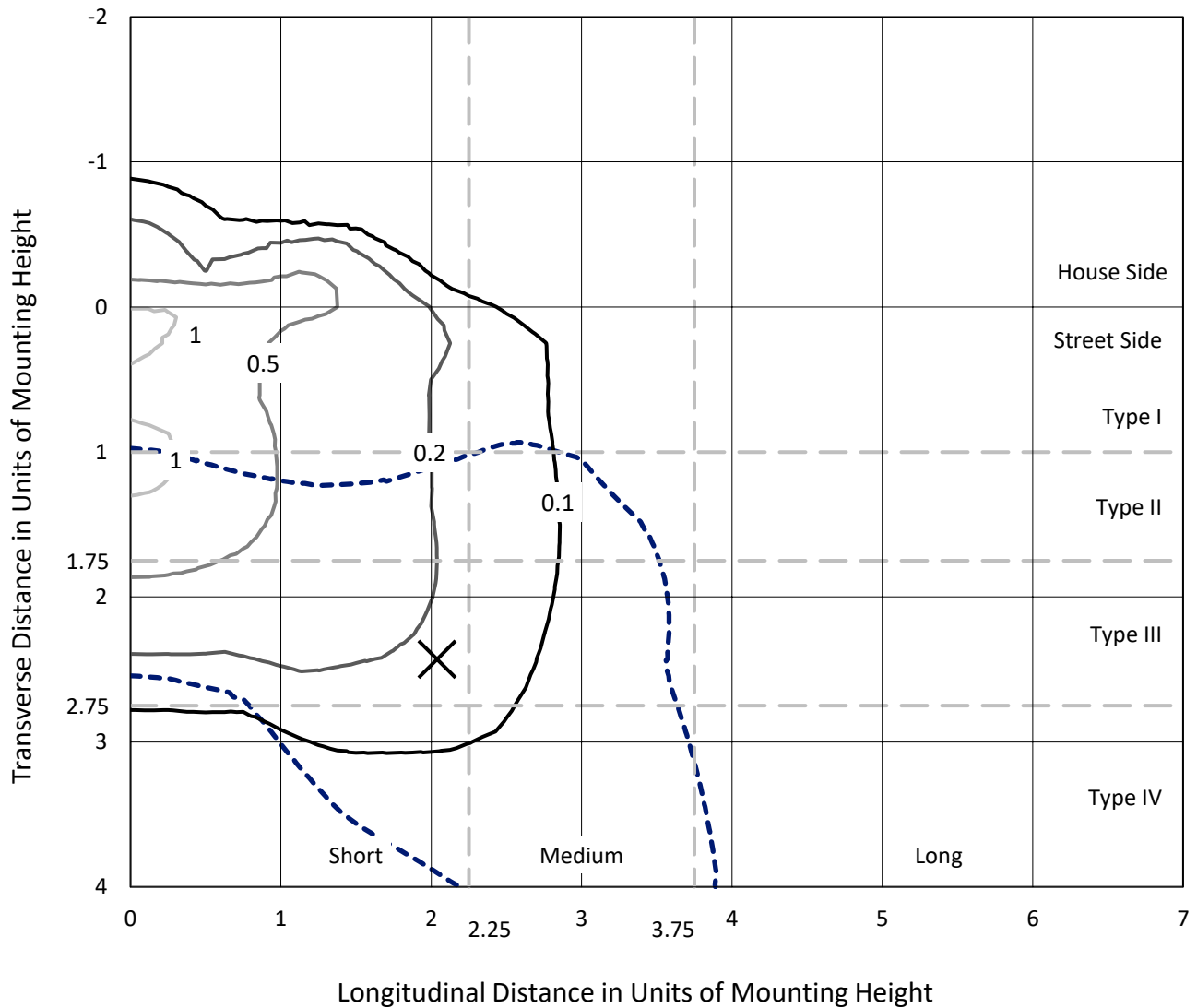
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

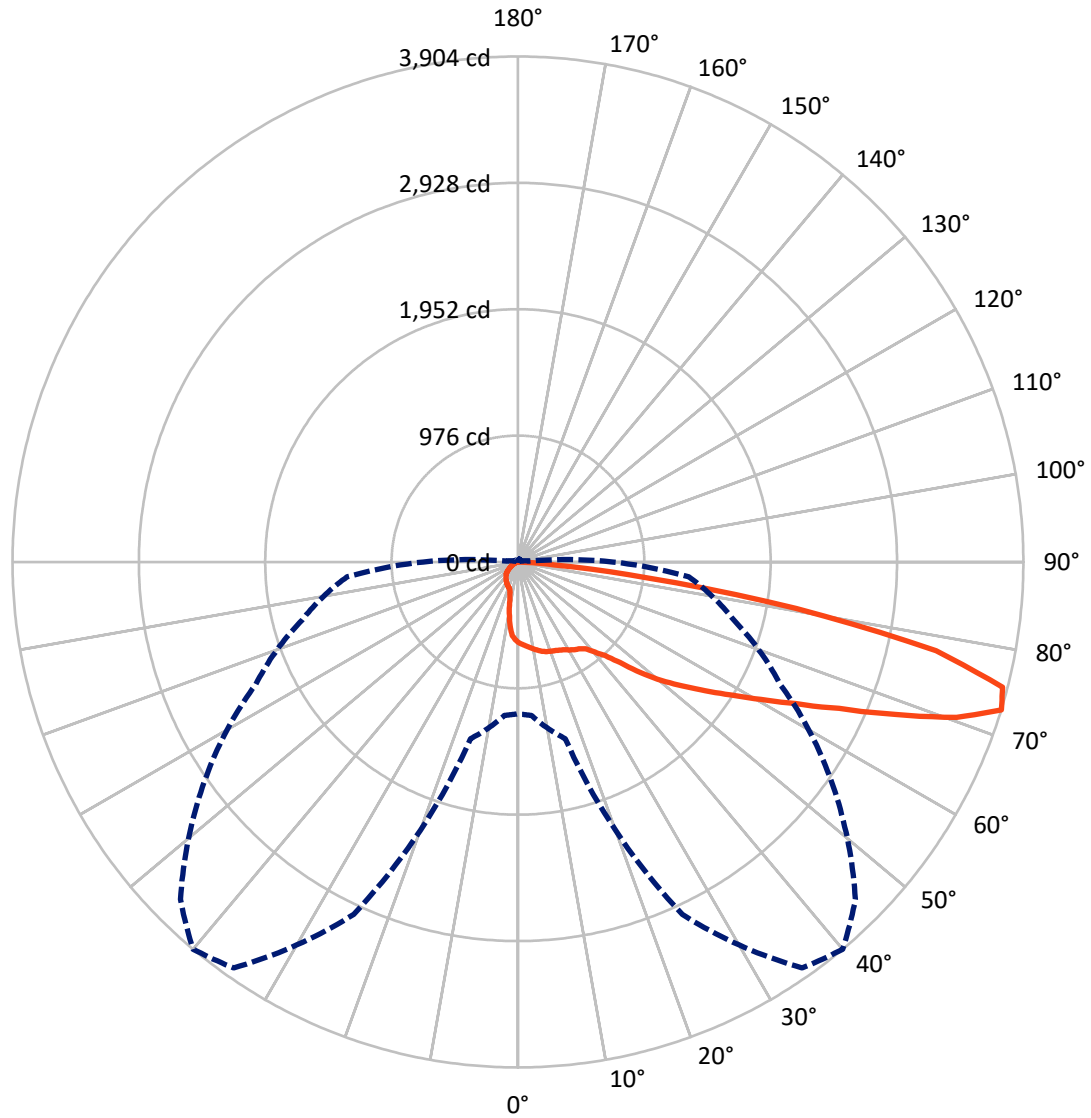
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	606.8	0.0	606.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4092.2	0.0	4092.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	4699.0	0.0	4699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.2
10°-20°	154.3	3.3
20°-30°	249.7	5.3
30°-40°	368.6	7.8
40°-50°	620.4	13.2
50°-60°	963.3	20.5
60°-70°	1205.4	25.7
70°-80°	986.9	21.0
80°-90°	93.6	2.0
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°	4699.0	100.0
0°-180°	4699.0	100.0

Coefficient of Utilization



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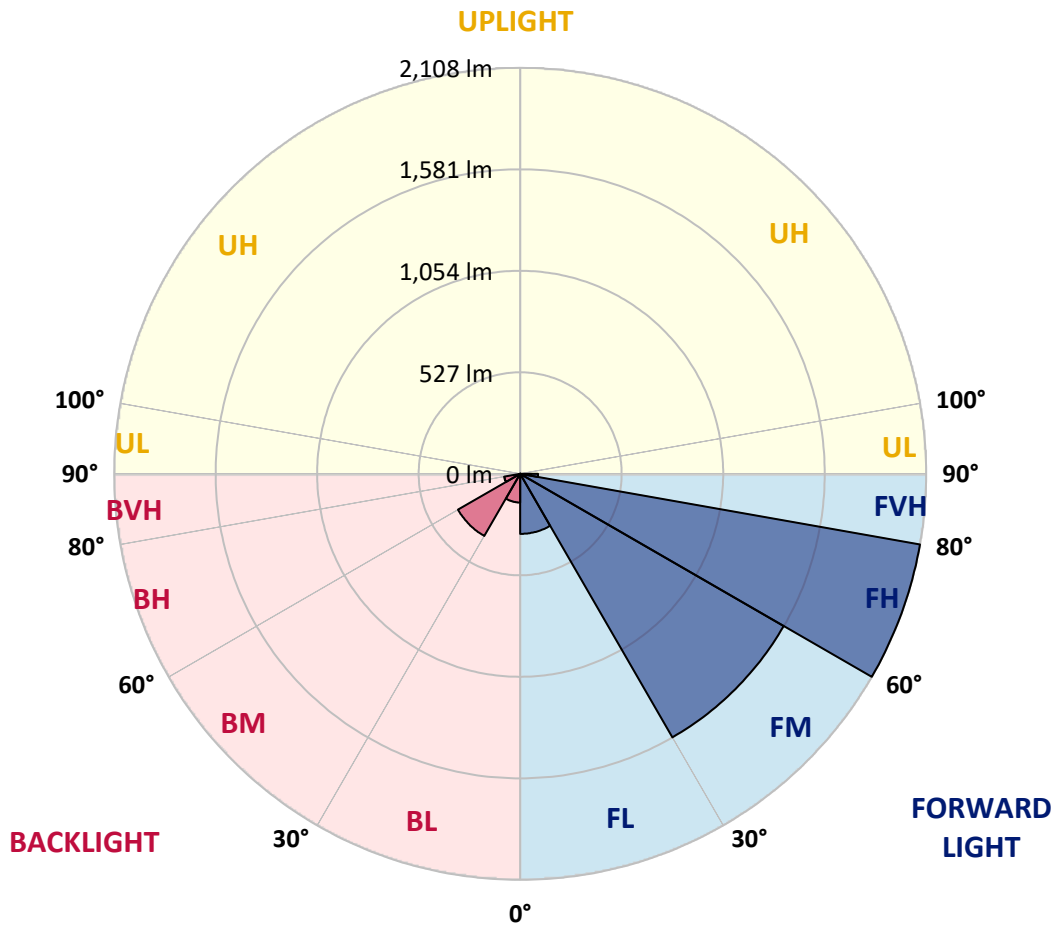
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.9	6.6			
FM (30°-60°)	1579.7	33.6			
FH (60°-80°)	2107.7	44.9			G2/5000
FVH (80°-90°)	92.9	2.0			G1/100
BL (0°-30°)	148.9	3.2	B1/500		
BM (30°-60°)	372.6	7.9	B1/1000		
BH (60°-80°)	84.5	1.8	B0/110		G0/110
BVH (80°-90°)	0.7	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°	40°	45°	55°	65°	75°
0°	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2
2.5°	640.9	643.4	642.0	639.2	638.5	637.1	635.3	634.6	632.1	630.0
5°	659.0	661.5	659.7	655.8	654.0	652.3	649.8	647.7	642.7	638.1
7.5°	678.8	680.9	678.8	673.1	670.3	668.2	664.7	661.5	655.8	649.1
10°	700.8	702.5	699.3	691.9	687.3	684.1	680.9	677.4	672.1	664.7
12.5°	721.3	723.4	718.5	709.6	704.3	701.1	697.6	694.7	689.4	682.4
15°	740.0	743.2	734.7	725.2	719.2	716.7	713.1	711.4	707.8	702.9
17.5°	754.2	756.3	747.5	736.1	729.4	727.7	725.2	726.2	725.5	723.1
20°	766.2	767.6	756.0	742.2	734.7	735.1	734.4	737.9	739.3	739.3
22.5°	781.1	781.4	766.6	749.2	740.4	742.9	743.9	747.8	750.7	753.5
25°	800.6	799.9	782.2	758.4	750.7	754.2	756.7	758.1	761.3	765.9
27.5°	829.6	827.5	804.8	773.3	764.1	767.3	771.9	771.2	769.8	773.3
30°	866.4	863.6	833.5	794.2	785.7	788.5	789.9	783.6	773.3	776.5
32.5°	924.8	919.8	878.1	817.5	804.5	807.6	805.9	792.8	777.6	780.7
35°	1026.4	1014.3	955.2	866.4	825.7	822.1	817.9	805.2	786.4	783.2
37.5°	1242.2	1221.0	1120.1	961.6	873.8	850.8	837.7	825.0	796.0	783.2
40°	1485.7	1464.2	1347.7	1120.9	953.8	914.9	883.7	848.3	805.9	787.8
42.5°	1739.9	1716.1	1596.5	1318.3	1068.1	988.1	930.1	867.1	822.1	802.0
45°	2023.7	1994.0	1837.5	1524.3	1234.1	1109.9	1004.8	905.7	850.5	827.1
47.5°	2323.1	2284.5	2077.8	1724.3	1412.8	1278.3	1141.4	974.7	892.2	864.6
50°	2588.5	2550.3	2325.9	1933.4	1579.9	1438.7	1297.1	1070.2	954.9	917.7
52.5°	2779.3	2750.3	2551.7	2149.3	1753.7	1589.1	1438.3	1181.4	1034.1	985.7
55°	2907.1	2880.5	2711.7	2353.9	1955.7	1754.7	1577.4	1302.1	1129.7	1067.1
57.5°	2984.6	2969.4	2827.4	2536.5	2156.1	1935.9	1736.7	1434.8	1242.2	1163.0
60°	3012.2	2999.8	2899.3	2710.6	2398.1	2153.6	1923.9	1584.5	1378.9	1272.0
62.5°	2938.6	2941.0	2951.0	2917.0	2653.3	2408.4	2148.3	1764.3	1530.3	1395.5
65°	2592.1	2612.6	2800.9	3145.6	2991.3	2727.6	2433.9	1983.7	1703.8	1536.0
67.5°	2146.2	2175.9	2410.2	3279.4	3351.6	3142.1	2831.7	2263.3	1910.4	1679.0
70°	1642.9	1674.7	1958.6	3251.4	3688.9	3595.1	3323.6	2619.0	2124.6	1778.1
72.5°	1172.5	1188.8	1412.5	3002.6	3827.3	3903.7	3686.0	2955.9	2233.9	1723.2
75°	823.9	821.1	969.4	2418.0	3611.7	3866.2	3559.0	2773.6	2021.6	1369.0
77.5°	358.9	359.6	484.2	1468.4	2882.7	3302.0	2958.4	1737.4	1409.3	725.5
80°	93.1	95.9	177.7	584.7	1735.6	2179.4	1804.3	763.8	651.2	177.0
82.5°	32.9	35.0	81.8	183.7	640.2	999.5	803.4	244.2	169.9	50.6
85°	9.6	11.3	43.9	56.3	132.4	282.4	195.0	47.4	41.8	26.2
87.5°	0.0	1.4	8.8	7.8	7.8	5.3	9.9	5.3	6.7	3.2
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°
622.2	0°	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2	622.2
627.5	2.5°	625.4	622.9	617.6	611.9	606.6	601.7	600.2	594.9	592.5	592.8
632.4	5°	628.6	624.0	613.7	601.3	588.6	574.1	562.0	545.0	530.5	528.8
642.0	7.5°	637.1	629.6	613.0	588.9	557.1	517.1	479.9	443.1	422.2	410.9
656.2	10°	650.1	640.2	614.8	568.7	501.1	429.7	373.4	327.0	303.3	292.3
673.5	12.5°	665.7	654.7	617.6	534.4	428.9	335.2	274.3	246.0	241.0	240.3
694.7	15°	687.7	675.6	620.8	488.1	350.7	255.2	227.2	227.6	231.5	233.6
717.7	17.5°	712.1	700.0	616.2	431.4	273.6	218.0	217.3	220.5	226.2	228.3
739.0	20°	736.9	725.5	599.9	364.9	221.2	207.7	210.6	214.1	219.8	222.6
759.9	22.5°	762.3	752.4	574.1	294.1	199.6	200.3	203.9	207.4	213.8	217.0
780.4	25°	789.6	781.1	539.7	235.7	190.4	192.5	197.1	201.4	208.1	212.0
797.7	27.5°	817.2	810.8	500.8	196.8	181.9	184.4	189.7	195.4	202.1	206.7
812.9	30°	847.3	843.7	469.6	182.3	173.8	175.9	181.9	188.3	195.7	201.4
828.2	32.5°	878.1	877.4	454.4	192.9	166.3	167.8	173.1	179.4	188.6	195.7
840.9	35°	908.5	909.9	445.6	223.0	163.9	160.0	163.5	169.2	180.1	189.0
855.4	37.5°	947.4	951.0	445.2	255.5	169.9	152.2	154.7	158.6	168.1	178.4
878.1	40°	1005.5	1024.2	467.9	283.5	180.5	145.1	145.8	146.5	151.5	160.0
908.2	42.5°	1082.6	1137.5	549.6	302.6	184.7	138.7	136.3	132.4	131.7	136.3
949.2	45°	1178.5	1274.5	693.3	313.2	180.5	131.7	124.9	114.7	110.8	114.0
1004.8	47.5°	1291.4	1424.5	863.6	315.7	173.4	122.8	110.8	97.3	94.1	95.2
1079.4	50°	1401.5	1537.1	1013.3	295.2	161.7	111.5	95.2	83.9	81.8	82.1
1167.6	52.5°	1498.8	1575.6	1055.7	246.7	146.2	97.7	81.8	74.0	72.6	72.6
1264.9	55°	1563.3	1533.9	941.4	188.6	126.7	83.5	70.1	66.2	65.5	65.1
1373.6	57.5°	1576.7	1398.0	711.0	136.3	99.1	70.4	62.3	60.2	58.8	57.3
1485.0	60°	1528.6	1171.5	452.7	95.2	74.3	60.2	55.2	53.8	51.0	48.1
1589.8	62.5°	1424.5	884.8	250.6	66.2	59.8	51.3	48.8	47.1	41.8	37.2
1673.0	65°	1284.7	588.2	110.8	51.7	48.8	43.2	41.8	39.3	32.9	27.6
1704.5	67.5°	1144.2	338.7	49.9	41.4	39.3	35.4	34.3	32.6	28.0	23.0
1624.1	70°	983.9	171.6	34.3	32.9	30.4	26.9	28.0	27.6	23.0	18.8
1324.7	72.5°	732.6	85.3	25.8	24.8	21.9	19.1	23.0	22.7	18.0	14.2
816.8	75°	414.8	42.1	18.8	17.3	13.1	14.2	18.4	17.3	12.4	9.2
344.7	77.5°	164.6	21.6	12.4	10.6	7.8	9.6	13.4	11.7	6.4	3.9
65.8	80°	37.9	10.6	6.4	4.6	3.5	5.7	7.1	4.2	1.8	0.4
17.7	82.5°	10.6	4.6	2.1	1.8	1.8	2.1	1.8	0.7	0.0	0.0
4.6	85°	3.5	2.1	0.7	0.4	0.4	0.4	0.4	0.0	0.0	0.0
1.4	87.5°	1.4	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

(END O

180°
622.2
592.5
527.7
410.2
290.2
240.0
233.2
227.9
222.6
217.0
212.0
207.0
202.1
196.4
190.4
180.1
162.8
138.7
114.0
94.8
82.1
72.2
64.4
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