

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: P945731

Luminaire Tested: **GALN-SB1C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945731
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-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 5185 lumens
Efficiency: N/A
Efficacy: 95.3 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

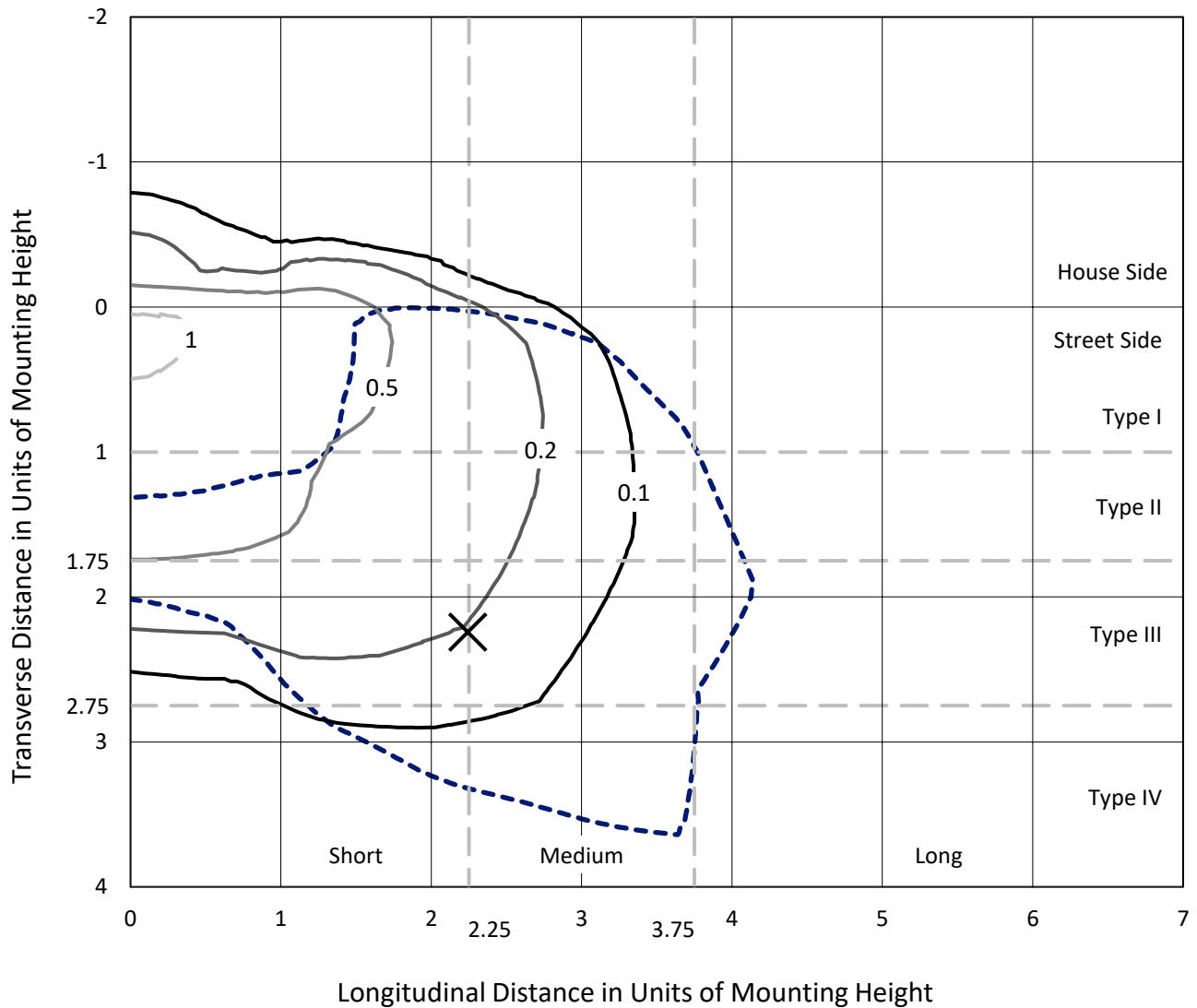
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945731
 CATALOG NUMBER: GALN-SB1C-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

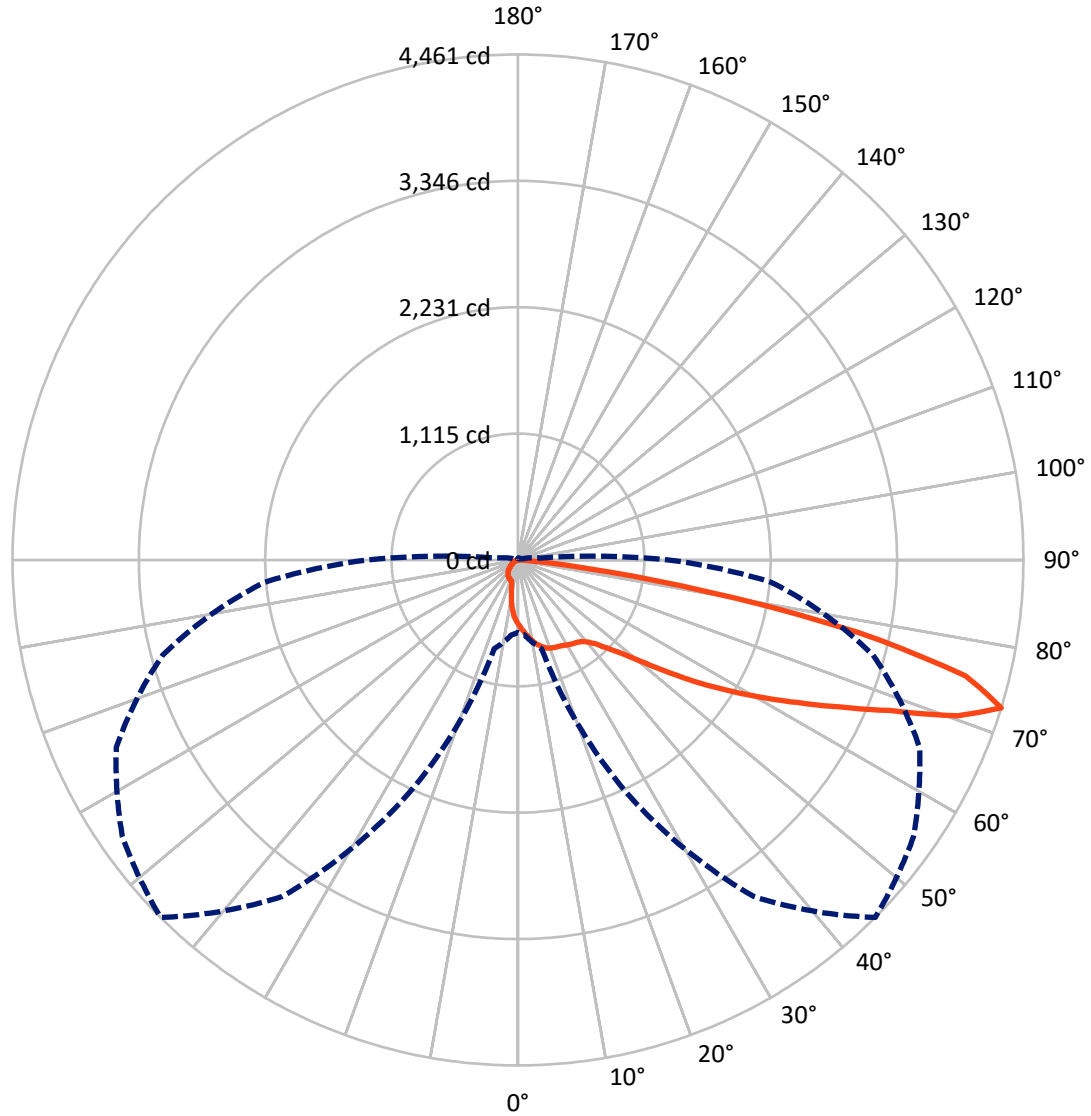
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P945731
CATALOG NUMBER: GALN-SB1C-830-U-T4W-HSS

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	544.8	0.0	544.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4640.2	0.0	4640.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	5185.0	0.0	5185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.0
10°-20°	156.4	3.0
20°-30°	256.9	5.0
30°-40°	364.3	7.0
40°-50°	602.1	11.6
50°-60°	1081.7	20.9
60°-70°	1501.9	29.0
70°-80°	1089.5	21.0
80°-90°	78.8	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°	5185.0	100.0
0°-180°	5185.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945731

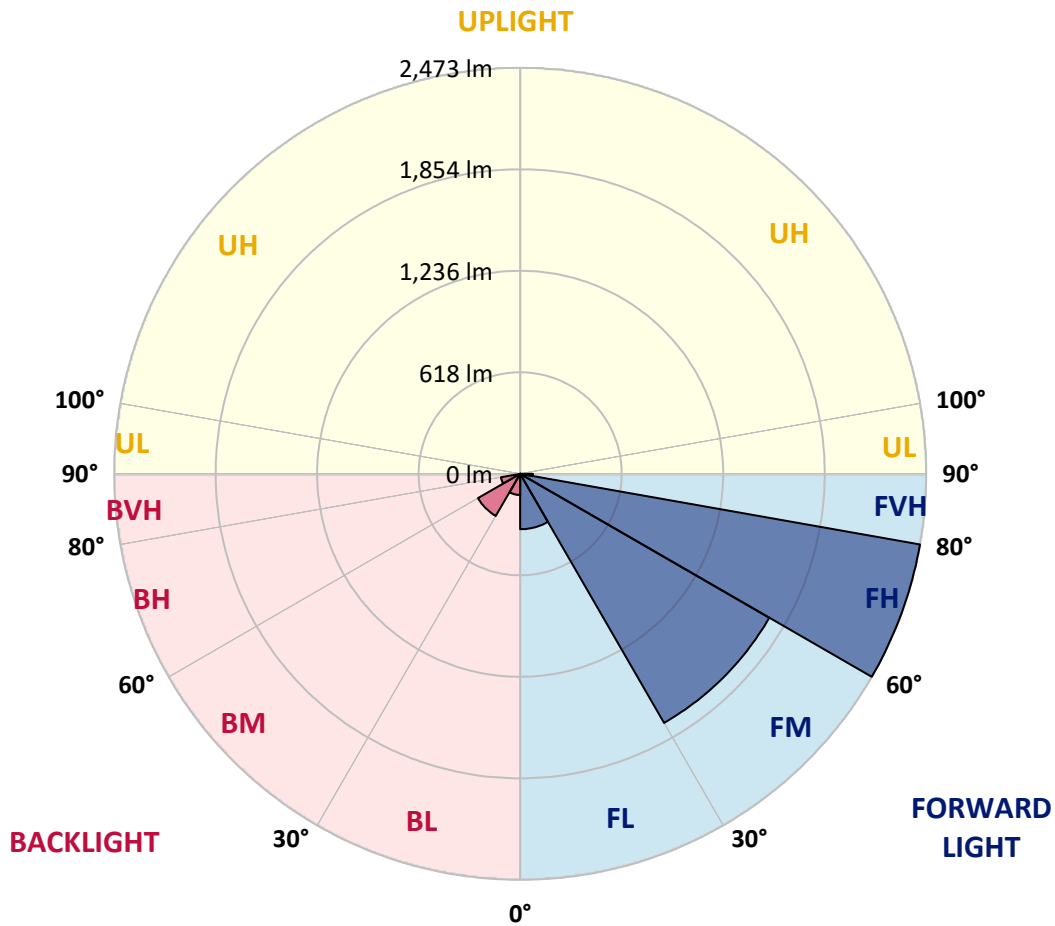
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.7	6.5			
FM (30°-60°)	1751.8	33.8			
FH (60°-80°)	2472.6	47.7			G2/5000
FVH (80°-90°)	78.1	1.5			G1/100
BL (0°-30°)	129.0	2.5	B1/500		
BM (30°-60°)	296.3	5.7	B1/1000		
BH (60°-80°)	118.8	2.3	B1/500		G1/500
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



REPORT NUMBER: P945731
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
2.5°	620.4	621.5	620.8	616.5	609.4	605.5	603.4	596.3	591.7	583.6
5°	677.4	681.6	679.2	670.7	657.2	647.7	644.8	630.3	617.2	602.0
7.5°	737.9	740.0	735.4	724.5	706.4	690.1	687.6	667.5	646.6	623.2
10°	790.3	792.8	785.7	769.8	749.2	729.1	725.5	703.2	678.4	649.8
12.5°	834.2	836.6	827.4	808.3	785.7	764.8	761.3	737.9	710.7	678.8
15°	867.4	872.0	859.7	839.1	814.7	793.8	792.1	769.0	742.5	707.1
17.5°	886.9	891.5	879.8	855.0	834.2	816.5	814.4	795.2	770.5	736.5
20°	890.1	894.3	881.9	860.4	843.0	828.9	827.8	814.0	795.9	763.4
22.5°	880.5	885.8	874.5	857.2	845.1	837.7	836.3	828.5	818.2	790.6
25°	870.6	874.9	866.4	851.2	844.8	844.1	845.1	843.7	841.6	818.2
27.5°	869.9	874.5	865.0	850.4	846.9	854.3	855.4	862.1	863.9	843.4
30°	875.9	879.1	869.9	854.7	852.9	869.9	870.3	882.3	885.1	864.6
32.5°	889.0	892.6	883.4	861.1	858.6	882.3	883.4	899.3	903.9	887.3
35°	919.8	924.1	913.4	878.8	869.9	894.0	897.2	915.9	925.1	911.3
37.5°	996.6	984.2	969.7	914.5	895.7	912.4	917.7	939.6	955.9	940.0
40°	1187.4	1148.4	1103.1	975.4	941.1	951.7	955.9	977.9	1000.2	984.6
42.5°	1473.7	1427.7	1354.8	1115.5	1009.4	1014.7	1017.8	1037.0	1068.5	1056.1
45°	1728.9	1712.2	1637.9	1354.8	1137.1	1110.9	1114.8	1124.7	1171.1	1166.5
47.5°	1924.9	1915.4	1858.0	1629.4	1353.0	1228.8	1239.8	1244.4	1311.2	1327.5
50°	2075.7	2072.2	2020.8	1873.6	1635.1	1402.6	1406.4	1396.5	1496.7	1537.0
52.5°	2218.0	2230.0	2192.1	2100.5	1936.2	1630.1	1629.4	1582.7	1717.9	1778.8
55°	2346.4	2350.7	2354.6	2331.9	2239.2	1889.2	1882.5	1806.0	1974.5	2037.5
57.5°	2467.1	2468.9	2503.6	2549.9	2554.5	2167.4	2155.0	2063.3	2254.8	2299.7
60°	2548.2	2556.3	2629.6	2758.4	2814.7	2454.4	2447.7	2354.2	2540.0	2560.9
62.5°	2431.4	2480.9	2665.7	2921.2	3060.3	2772.5	2769.4	2681.6	2840.1	2823.2
65°	1968.1	2052.0	2376.9	3031.3	3301.3	3127.9	3132.5	3039.0	3148.4	3093.2
67.5°	1376.7	1465.2	1849.5	3040.1	3570.6	3545.1	3571.7	3425.2	3475.8	3351.9
70°	952.0	997.7	1247.9	2849.7	3780.5	4119.9	4119.2	3899.4	3801.4	3469.7
72.5°	640.2	663.9	810.5	2260.8	3626.2	4461.4	4440.9	4261.8	3911.1	3245.0
75°	270.0	287.4	375.1	1270.5	2868.8	4081.7	4026.1	3766.3	3475.1	2555.2
77.5°	85.6	93.1	147.9	454.8	1580.2	3068.1	3009.3	2352.1	2329.1	1281.9
80°	40.7	47.4	83.2	182.6	621.8	1668.7	1660.6	1067.0	1001.9	346.1
82.5°	17.7	20.9	46.0	97.7	278.2	595.3	607.3	363.1	300.5	131.3
85°	5.7	7.4	21.2	44.9	117.5	147.9	146.2	86.4	121.0	71.5
87.5°	0.0	0.0	7.1	10.3	12.0	8.5	9.6	7.4	33.6	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945731

CATALOG NUMBER: GALN-SB1C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
568.0	0°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
575.1	2.5°	570.9	565.2	555.3	546.1	537.9	529.8	524.9	517.8	517.1	517.1
584.3	5°	574.8	565.6	547.9	529.1	507.5	487.0	466.5	446.6	440.3	435.7
599.2	7.5°	586.1	571.6	543.6	507.9	466.8	421.9	390.4	356.4	343.3	336.2
619.0	10°	602.4	582.5	540.1	477.4	410.9	349.7	304.7	267.9	253.8	247.7
640.6	12.5°	620.4	596.0	533.7	439.6	349.7	276.4	232.5	215.5	213.4	213.4
666.4	15°	642.0	612.3	522.7	395.0	285.6	218.7	203.1	203.9	206.0	207.4
691.5	17.5°	664.3	629.6	505.4	345.1	229.0	196.8	197.1	198.2	200.0	201.4
718.8	20°	688.4	647.0	482.4	292.0	196.4	190.4	191.5	192.5	193.9	194.7
744.3	22.5°	714.2	663.2	455.1	240.0	185.4	185.1	185.4	186.5	188.3	188.3
774.0	25°	741.8	681.3	424.0	202.1	179.8	179.8	180.5	181.2	182.6	182.6
802.7	27.5°	770.1	697.9	391.1	182.3	174.8	174.5	174.5	175.5	176.2	176.6
831.0	30°	801.3	717.4	358.2	178.0	170.9	169.2	168.1	168.8	169.5	169.9
860.7	32.5°	833.1	736.1	328.8	179.8	167.0	163.9	160.3	159.6	159.6	161.0
891.5	35°	868.5	756.7	306.1	185.8	164.9	156.1	150.4	147.2	147.6	149.7
928.3	37.5°	911.0	781.4	289.5	191.1	163.5	147.2	138.0	134.1	131.7	134.1
978.9	40°	966.5	817.9	277.5	195.4	161.7	137.0	124.6	118.2	113.6	115.0
1057.5	42.5°	1048.3	875.2	272.9	195.7	157.8	124.9	110.8	102.3	95.6	95.9
1175.7	45°	1163.0	965.8	296.6	191.1	149.4	111.8	96.3	84.9	80.7	79.6
1352.3	47.5°	1320.1	1097.8	351.4	181.6	137.0	99.1	82.1	72.6	69.4	67.6
1584.1	50°	1530.7	1267.4	412.3	170.9	124.6	87.1	70.4	64.4	62.3	60.5
1859.1	52.5°	1774.9	1439.4	462.2	160.3	112.2	76.4	63.0	59.5	57.7	56.3
2124.5	55°	1998.9	1557.9	459.4	149.0	100.2	68.0	57.7	55.6	53.4	52.0
2353.2	57.5°	2138.3	1574.6	378.7	136.6	86.4	61.2	52.7	51.3	48.8	47.1
2551.0	60°	2202.4	1479.7	265.4	120.3	72.6	54.9	47.4	46.7	43.5	41.1
2738.2	62.5°	2214.1	1303.5	177.0	100.2	60.5	48.8	42.1	41.1	36.8	32.6
2890.4	65°	2166.6	1051.5	122.5	78.2	51.7	42.5	36.1	34.0	29.4	25.1
2926.5	67.5°	2016.6	738.3	85.3	56.3	43.9	33.6	28.7	28.0	24.4	20.9
2742.5	70°	1741.6	420.8	57.0	42.1	34.7	23.0	22.7	23.4	19.8	17.0
2240.6	72.5°	1335.3	192.5	35.4	30.8	23.7	15.6	18.0	18.4	15.2	12.7
1397.9	75°	786.0	82.5	22.3	19.8	12.0	10.3	13.1	13.4	10.3	8.1
511.0	77.5°	267.6	31.1	14.2	11.7	6.0	5.7	8.5	8.5	5.7	3.2
102.6	80°	60.9	11.7	7.1	4.6	2.8	2.5	2.8	2.5	1.4	0.4
31.5	82.5°	17.3	4.6	2.8	1.8	1.1	1.1	0.4	0.0	0.0	0.0
11.0	85°	5.0	2.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
3.9	87.5°	2.1	0.4	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

<u>180°</u>
568.0
518.8
437.8
337.3
247.7
213.4
207.4
201.4
195.0
189.0
183.0
177.0
170.6
162.1
150.8
133.4
114.3
94.5
78.2
66.5
60.2
55.9
51.3
46.7
40.3
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