

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: P938924

Luminaire Tested: **GALN-SB1B-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4352 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

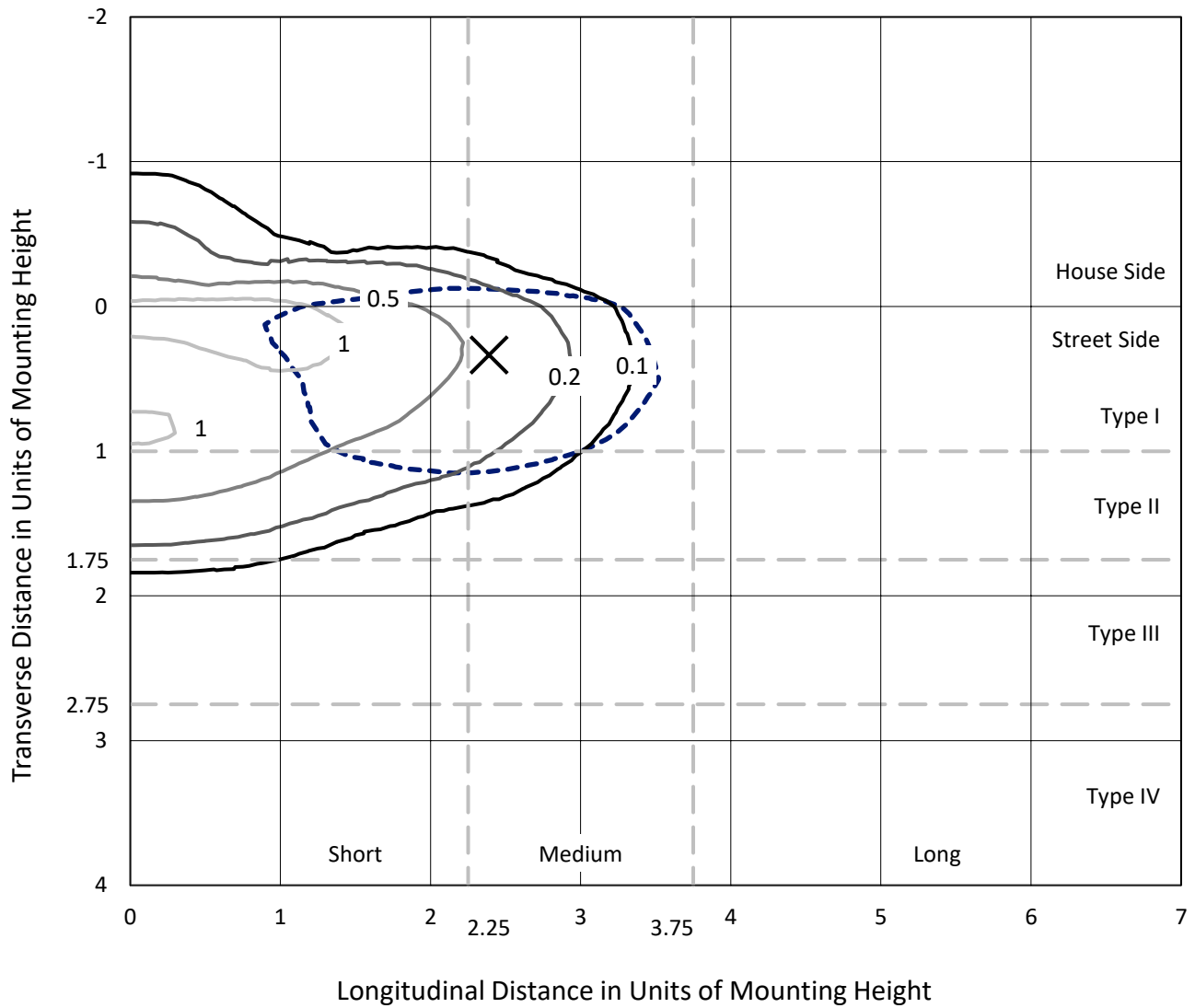
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

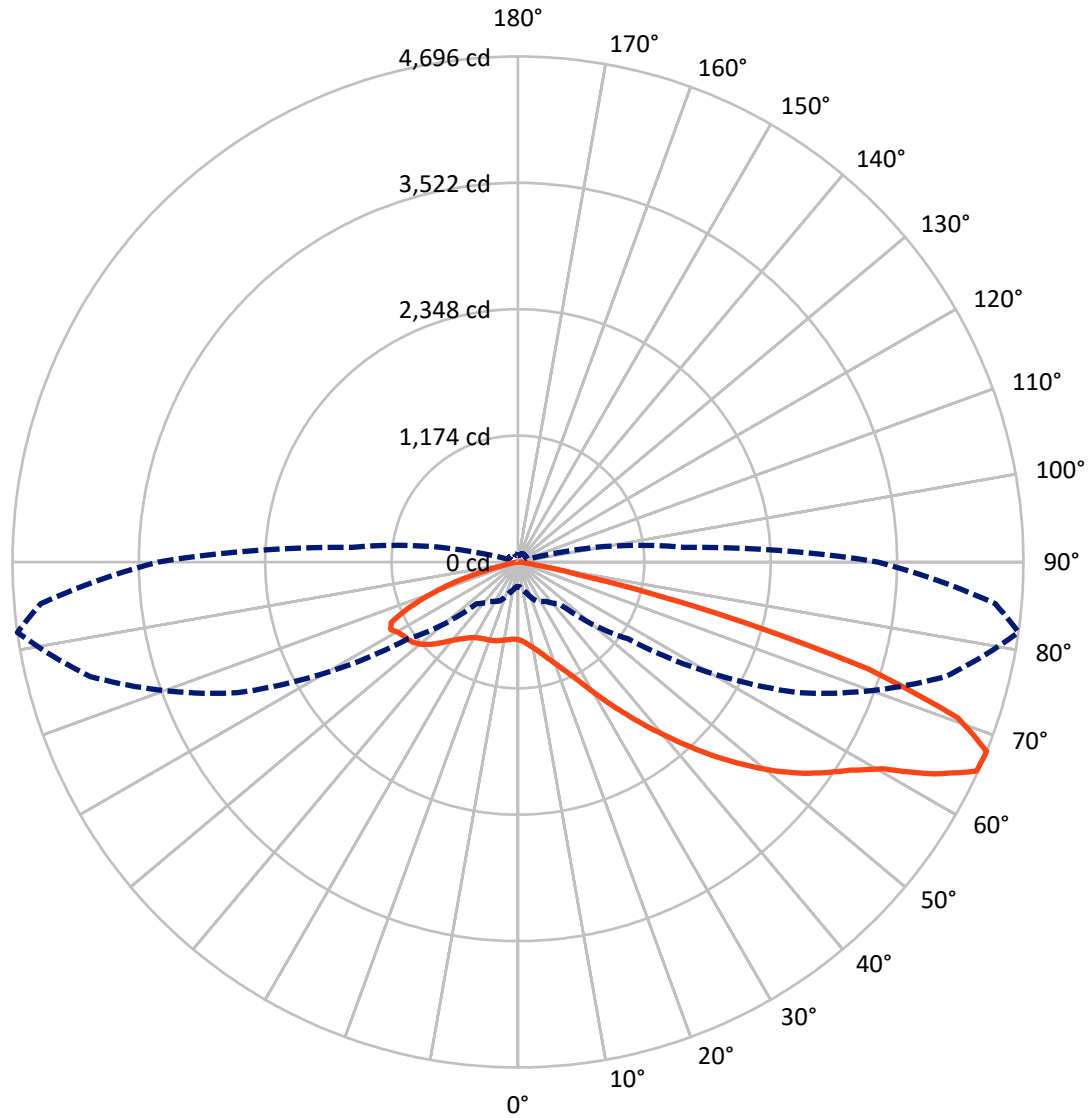
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	788.3	0.0	788.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3563.7	0.0	3563.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	4352.0	0.0	4352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.5
10°-20°	166.9	3.8
20°-30°	267.3	6.1
30°-40°	472.8	10.9
40°-50°	828.3	19.0
50°-60°	1104.7	25.4
60°-70°	1028.5	23.6
70°-80°	394.7	9.1
80°-90°	24.5	0.6
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°	4352.0	100.0
0°-180°	4352.0	100.0

Coefficient of Utilization



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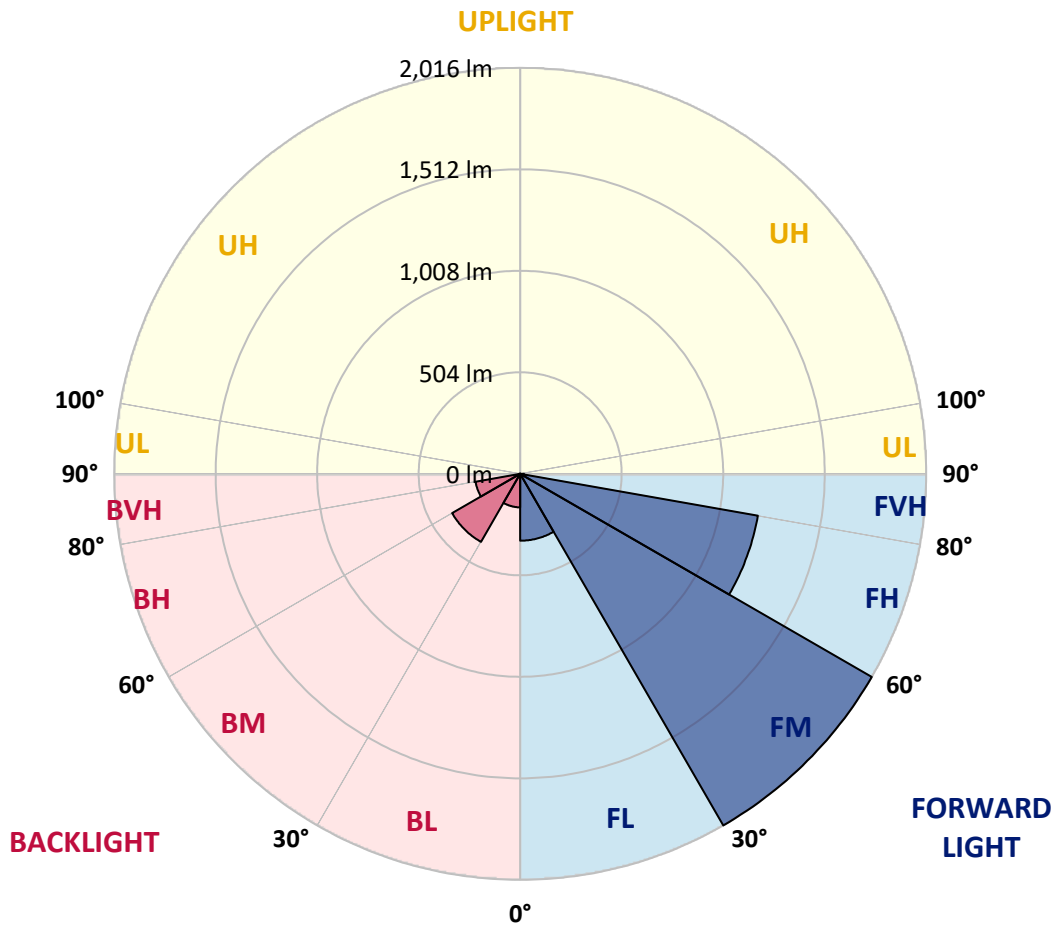
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.0	7.6			
FM (30°-60°)	2015.7	46.3			
FH (60°-80°)	1198.2	27.5			G1/1800
FVH (80°-90°)	17.8	0.4			G1/100
BL (0°-30°)	166.5	3.8	B1/500		
BM (30°-60°)	390.1	9.0	B1/1000		
BH (60°-80°)	225.0	5.2	B1/500		G1/500
BVH (80°-90°)	6.7	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
2.5°	762.0	766.4	763.9	762.7	760.5	757.3	754.8	747.0	738.8	733.5
5°	777.4	781.8	781.5	782.7	784.3	785.2	784.6	775.8	764.2	755.1
7.5°	764.2	769.2	773.3	779.6	790.5	802.1	807.8	805.9	794.0	781.5
10°	726.9	732.3	742.0	756.7	779.9	805.0	825.9	835.7	828.1	814.4
12.5°	658.6	664.0	683.1	715.0	753.9	797.4	837.5	863.5	865.4	851.6
15°	581.9	587.2	607.6	647.7	706.9	776.8	843.8	893.0	909.6	897.7
17.5°	534.2	538.9	554.3	586.6	648.3	735.4	841.6	924.3	962.2	952.8
20°	519.8	523.9	531.1	553.7	605.0	692.5	827.2	953.8	1019.0	1013.6
22.5°	535.2	538.9	541.1	551.2	583.4	664.3	809.0	983.9	1084.8	1085.4
25°	570.6	574.3	571.8	578.1	592.2	655.5	802.1	1019.3	1167.5	1174.4
27.5°	628.9	629.2	623.2	622.9	625.1	668.7	809.3	1057.2	1271.8	1284.7
30°	745.7	741.0	718.2	693.4	682.1	708.1	829.4	1102.0	1395.0	1417.8
32.5°	925.9	919.0	877.0	817.8	758.3	771.7	865.4	1153.1	1529.1	1570.4
35°	1121.4	1119.5	1075.7	987.6	883.6	862.3	924.0	1220.1	1675.4	1741.2
37.5°	1303.2	1302.2	1277.1	1173.4	1046.8	988.6	1018.0	1307.9	1832.1	1927.3
40°	1469.2	1472.0	1447.0	1354.2	1226.7	1150.6	1145.9	1416.3	2006.3	2130.0
42.5°	1612.7	1615.9	1590.5	1521.9	1404.4	1329.8	1302.8	1549.1	2176.4	2347.8
45°	1710.2	1729.6	1725.8	1671.0	1586.7	1509.3	1491.5	1715.8	2370.4	2578.7
47.5°	1737.7	1755.6	1783.8	1791.3	1739.9	1663.8	1685.1	1916.7	2566.5	2810.0
50°	1669.8	1686.4	1745.0	1823.0	1858.7	1835.2	1873.4	2131.9	2767.4	3040.6
52.5°	1535.6	1552.6	1626.5	1750.0	1895.7	1969.6	2062.4	2344.0	2961.9	3259.0
55°	1341.7	1359.6	1454.5	1594.2	1825.2	2025.1	2220.0	2555.9	3140.2	3455.4
57.5°	1077.9	1091.0	1189.7	1385.2	1647.8	1969.9	2336.2	2787.1	3308.2	3648.4
60°	702.5	714.1	828.8	1046.8	1353.9	1785.7	2359.4	3045.0	3531.3	3899.4
62.5°	467.2	475.0	543.0	703.1	953.5	1431.9	2223.7	3250.8	3858.4	4336.2
65°	320.5	328.4	396.4	507.9	616.0	947.2	1833.6	3223.6	4154.8	4683.1
67.5°	228.7	235.3	293.0	398.2	445.9	550.2	1243.0	2875.1	4112.2	4696.2
70°	163.9	167.6	215.3	310.2	354.4	330.6	691.2	2199.0	3600.5	4336.5
72.5°	114.7	115.9	149.5	236.3	285.4	241.3	329.0	1466.1	2723.2	3403.7
75°	77.7	79.3	100.6	173.3	229.0	184.2	174.2	786.2	1598.6	1884.1
77.5°	47.6	48.3	64.9	118.4	171.4	140.4	112.2	333.1	618.5	607.2
80°	26.9	26.9	41.4	73.6	116.9	90.6	78.6	141.6	195.8	172.0
82.5°	15.0	15.4	30.1	45.7	77.4	53.6	43.2	65.5	84.6	74.9
85°	6.3	6.9	18.5	21.6	37.0	26.6	17.5	27.6	31.3	27.9
87.5°	0.6	0.9	5.6	4.1	4.4	5.3	2.5	5.3	4.4	4.4
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°
721.0	0°	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
731.6	2.5°	725.7	721.0	709.1	695.3	677.1	668.3	656.4	648.3	641.4	642.0
749.8	5°	739.8	727.9	701.2	668.0	626.7	597.2	565.9	544.3	526.7	523.0
774.9	7.5°	759.2	740.4	693.7	633.9	564.0	511.0	463.7	433.3	411.7	404.8
805.3	10°	784.3	757.0	684.0	590.9	490.4	423.0	372.2	348.4	333.7	328.7
841.0	12.5°	813.4	776.1	671.2	538.6	414.5	349.7	317.4	305.5	300.8	299.2
884.9	15°	850.1	799.9	651.7	476.6	350.3	304.9	291.1	289.5	290.1	289.5
937.5	17.5°	893.6	825.9	620.1	412.7	307.1	282.0	277.0	278.2	279.8	279.5
996.4	20°	941.3	851.6	579.7	355.9	277.6	265.7	262.9	264.1	265.4	264.8
1064.4	22.5°	995.5	879.2	534.9	311.8	257.9	250.7	247.5	247.8	247.8	246.6
1150.6	25°	1060.3	909.6	487.9	280.4	242.8	237.2	233.4	232.2	230.3	226.5
1255.2	27.5°	1137.7	941.9	442.7	258.5	230.9	225.6	221.2	218.1	213.4	207.1
1380.9	30°	1224.8	981.0	404.5	244.7	221.5	216.2	211.2	206.5	199.6	191.8
1525.3	32.5°	1327.3	1023.0	376.6	235.6	213.1	207.4	201.5	195.8	188.3	180.5
1687.6	35°	1449.5	1073.8	360.3	229.4	206.5	199.0	192.4	186.1	180.5	173.6
1864.0	37.5°	1582.0	1127.7	355.3	226.2	202.1	190.5	183.0	178.6	178.0	173.9
2054.8	40°	1727.1	1191.6	359.1	224.3	197.4	182.4	174.2	173.3	174.8	167.6
2258.8	42.5°	1880.6	1267.4	365.3	222.2	190.8	174.2	166.4	166.4	165.1	155.1
2474.4	45°	2046.7	1354.9	371.6	216.8	183.0	166.1	160.1	157.9	152.6	142.9
2691.2	47.5°	2214.0	1443.8	376.3	207.1	173.6	159.2	153.8	148.8	141.0	132.2
2904.0	50°	2372.9	1523.7	371.3	192.7	162.9	152.6	147.0	140.1	131.6	125.6
3105.4	52.5°	2514.8	1593.0	350.0	175.8	151.7	145.7	140.7	133.5	126.6	120.3
3287.2	55°	2638.3	1649.1	312.4	159.8	141.6	139.7	134.7	125.6	116.2	110.9
3467.3	57.5°	2756.7	1691.7	265.4	146.6	132.5	133.2	125.6	117.5	108.7	103.1
3710.2	60°	2914.3	1748.7	217.8	134.4	122.8	124.7	116.6	110.6	99.6	92.4
4126.6	62.5°	3166.2	1837.4	173.0	119.4	111.5	112.2	108.7	101.5	88.4	79.9
4435.2	65°	3366.1	1804.8	136.3	103.1	98.7	99.6	99.6	91.8	77.7	68.0
4451.8	67.5°	3343.6	1545.4	108.7	87.1	86.5	87.1	89.3	82.7	68.9	61.1
4112.8	70°	3080.1	1229.2	87.1	72.4	75.2	73.6	79.9	75.5	62.0	54.2
3188.5	72.5°	2513.2	885.5	66.4	59.8	57.7	60.2	72.1	68.0	51.7	42.9
1688.9	75°	1468.6	472.5	49.5	47.3	41.7	50.1	63.9	58.0	39.5	31.6
517.6	77.5°	478.1	164.8	36.3	34.8	31.0	40.4	54.5	48.9	32.3	25.1
151.7	80°	128.2	49.8	24.8	22.9	20.1	30.1	43.2	38.9	23.2	16.3
65.2	82.5°	51.4	21.0	14.4	12.8	11.0	20.7	34.2	31.3	17.2	10.3
20.4	85°	16.6	6.9	5.3	4.1	5.0	12.8	20.4	21.3	12.2	5.3
3.1	87.5°	2.2	0.9	0.9	1.3	0.9	2.2	6.3	6.0	3.4	0.6
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>
721.0
635.8
514.5
397.9
324.9
298.3
289.2
278.9
264.5
246.0
225.9
206.5
191.1
180.8
173.0
173.6
167.9
155.1
142.6
131.9
124.7
119.7
110.3
102.5
91.5
79.3
67.1
59.8
53.3
42.0
30.7
24.1
16.0
10.3
4.1
0.0
0.0

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