

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: P938914

Luminaire Tested: **GALN-SB1B-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938914
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-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 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: 4113 lumens
Efficiency: N/A
Efficacy: 103.3 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

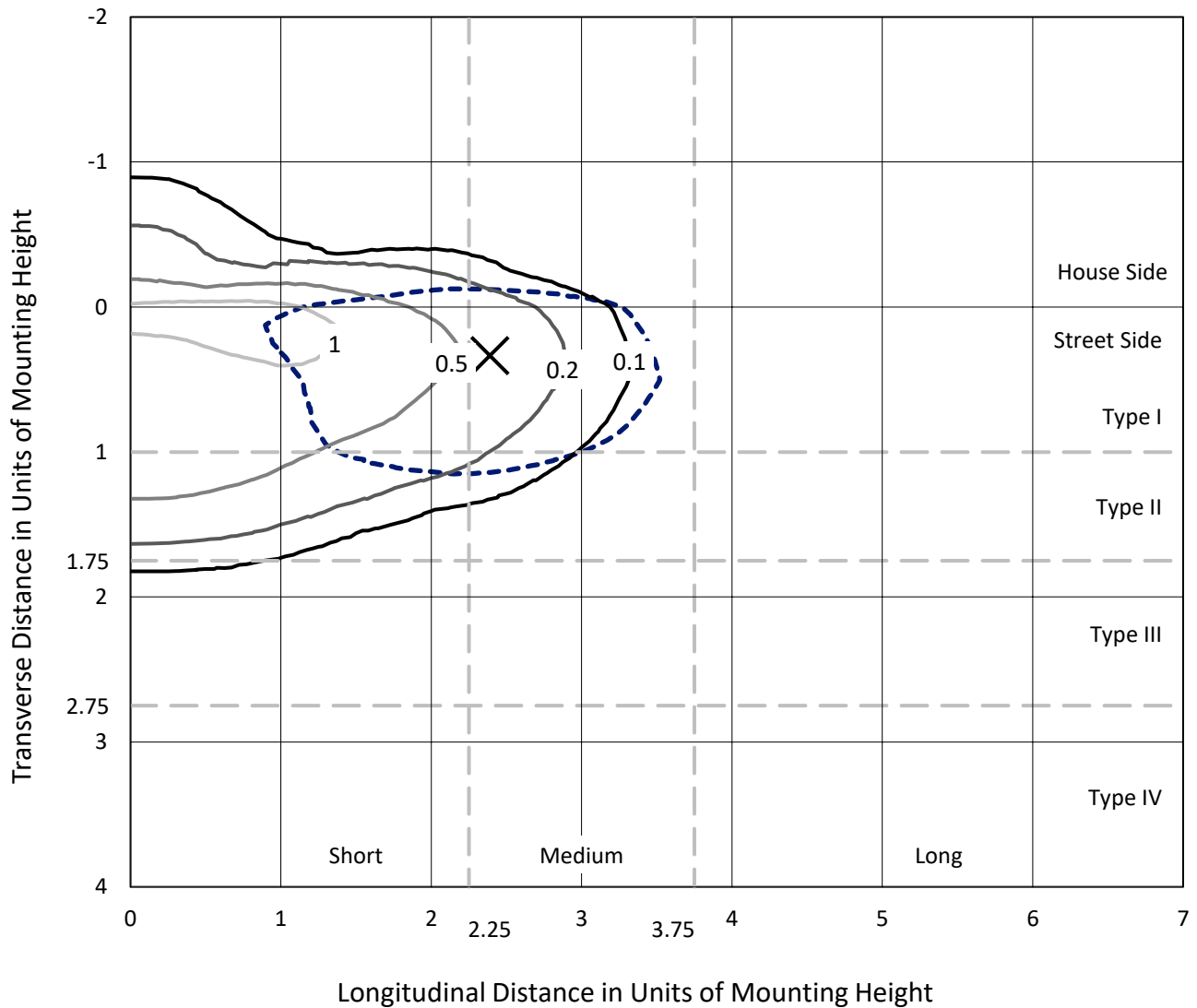
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

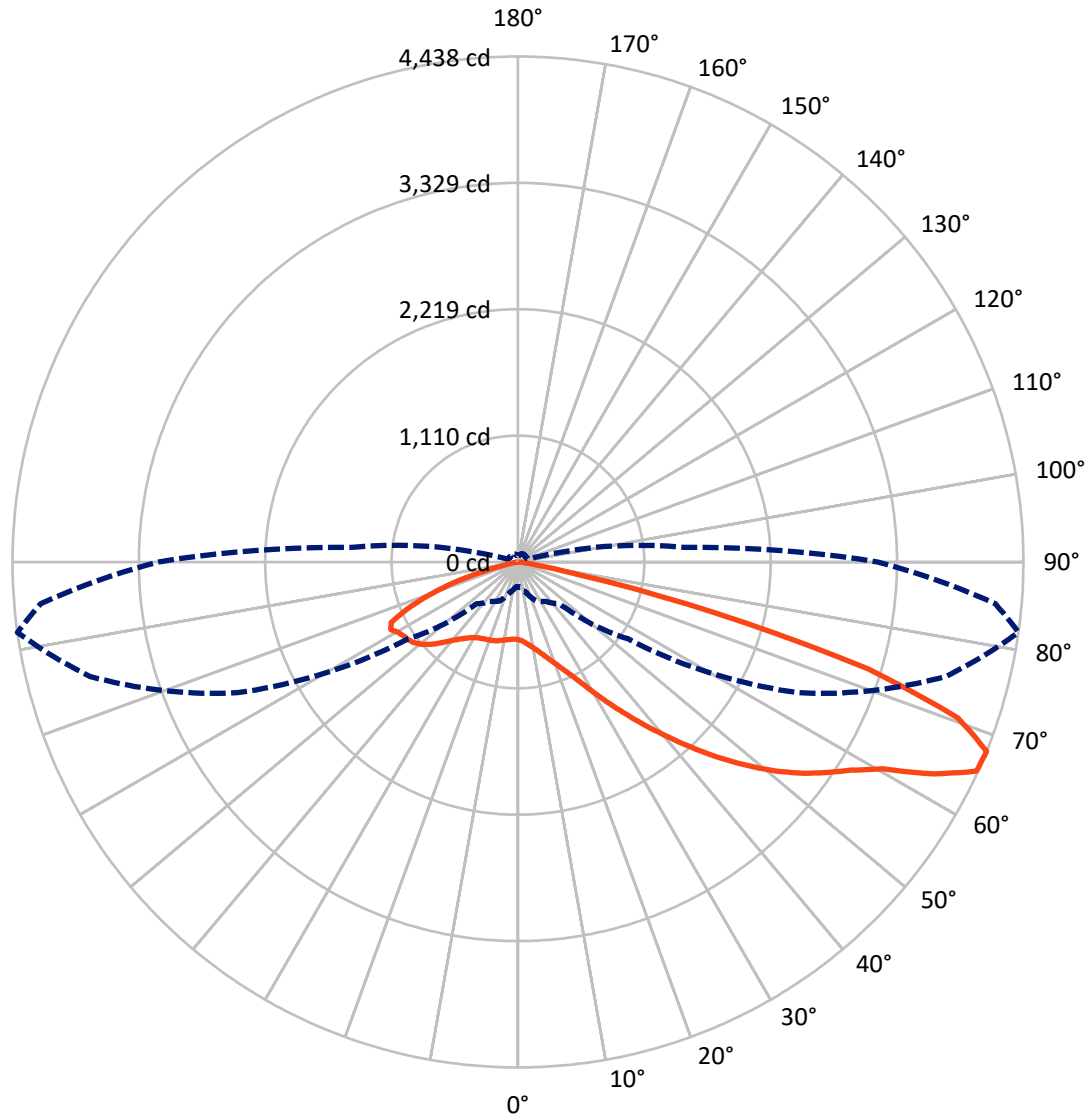
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	745.0	0.0	745.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3368.0	0.0	3368.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	4113.0	0.0	4113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.5
10°-20°	157.8	3.8
20°-30°	252.7	6.1
30°-40°	446.8	10.9
40°-50°	782.8	19.0
50°-60°	1044.1	25.4
60°-70°	972.0	23.6
70°-80°	373.1	9.1
80°-90°	23.2	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°	4113.0	100.0
0°-180°	4113.0	100.0

Coefficient of Utilization



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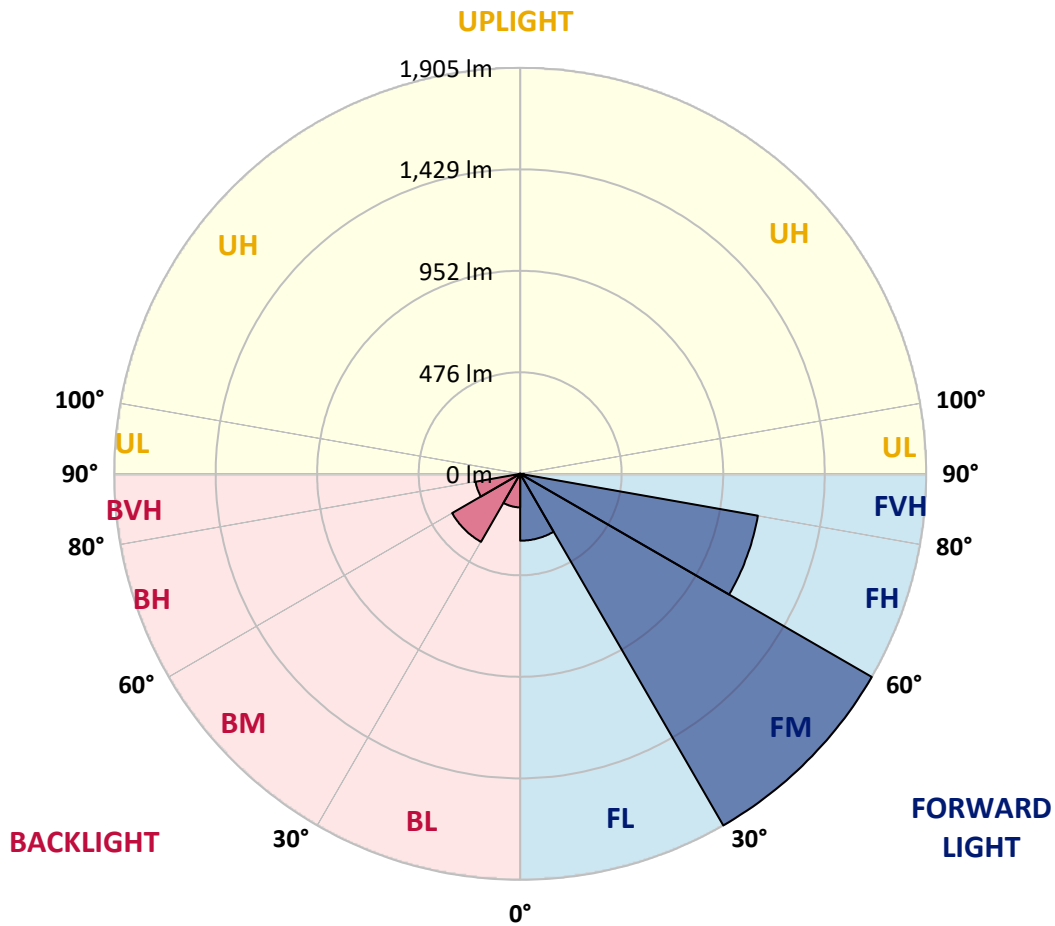
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.8	7.6			
FM (30°-60°)	1905.0	46.3			
FH (60°-80°)	1132.4	27.5			G1/1800
FVH (80°-90°)	16.8	0.4			G1/100
BL (0°-30°)	157.3	3.8	B1/500		
BM (30°-60°)	368.7	9.0	B1/1000		
BH (60°-80°)	212.7	5.2	B1/500		G1/500
BVH (80°-90°)	6.3	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°	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4
2.5°	720.2	724.3	722.0	720.8	718.7	715.7	713.4	706.0	698.3	693.2
5°	734.7	738.8	738.5	739.7	741.2	742.1	741.5	733.2	722.3	713.7
7.5°	722.3	727.0	730.8	736.8	747.1	758.1	763.4	761.6	750.4	738.5
10°	687.0	692.0	701.2	715.1	737.1	760.7	780.6	789.8	782.7	769.6
12.5°	622.5	627.5	645.6	675.8	712.5	753.6	791.5	816.1	817.9	804.9
15°	549.9	554.9	574.2	612.1	668.1	734.1	797.5	844.0	859.7	848.4
17.5°	504.9	509.3	523.8	554.3	612.7	695.0	795.4	873.6	909.4	900.5
20°	491.3	495.1	501.9	523.3	571.8	654.4	781.8	901.4	963.0	958.0
22.5°	505.8	509.3	511.4	520.9	551.4	627.8	764.6	929.8	1025.2	1025.8
25°	539.2	542.8	540.4	546.4	559.7	619.5	758.1	963.3	1103.4	1109.9
27.5°	594.3	594.6	589.0	588.7	590.8	631.9	764.9	999.1	1202.0	1214.1
30°	704.8	700.3	678.7	655.3	644.7	669.2	783.8	1041.5	1318.4	1340.0
32.5°	875.1	868.5	828.9	772.9	716.6	729.4	817.9	1089.7	1445.1	1484.2
35°	1059.8	1058.1	1016.6	933.4	835.1	814.9	873.3	1153.1	1583.4	1645.6
37.5°	1231.6	1230.7	1207.0	1109.0	989.4	934.3	962.1	1236.0	1731.4	1821.5
40°	1388.5	1391.2	1367.5	1279.9	1159.3	1087.4	1082.9	1338.5	1896.1	2013.1
42.5°	1524.2	1527.1	1503.1	1438.3	1327.2	1256.8	1231.3	1464.0	2056.9	2218.9
45°	1616.3	1634.6	1631.1	1579.2	1499.6	1426.4	1409.6	1621.6	2240.2	2437.1
47.5°	1642.3	1659.2	1685.8	1692.9	1644.4	1572.4	1592.6	1811.4	2425.6	2655.7
50°	1578.1	1593.7	1649.1	1722.9	1756.6	1734.4	1770.5	2014.8	2615.4	2873.6
52.5°	1451.3	1467.3	1537.2	1653.9	1791.6	1861.4	1949.1	2215.3	2799.3	3080.0
55°	1268.0	1284.9	1374.6	1506.7	1724.9	1913.9	2098.0	2415.5	2967.8	3265.7
57.5°	1018.7	1031.1	1124.4	1309.2	1557.3	1861.7	2207.9	2634.0	3126.5	3448.1
60°	663.9	674.9	783.3	989.4	1279.6	1687.6	2229.8	2877.7	3337.3	3685.3
62.5°	441.5	448.9	513.2	664.5	901.1	1353.3	2101.6	3072.3	3646.5	4098.1
65°	302.9	310.3	374.6	480.0	582.2	895.2	1732.9	3046.5	3926.6	4425.9
67.5°	216.2	222.4	276.9	376.4	421.4	520.0	1174.7	2717.2	3886.4	4438.3
70°	154.9	158.4	203.4	293.2	334.9	312.4	653.3	2078.2	3402.8	4098.4
72.5°	108.4	109.6	141.3	223.3	269.8	228.0	310.9	1385.6	2573.6	3216.8
75°	73.4	74.9	95.1	163.8	216.5	174.1	164.6	743.0	1510.8	1780.6
77.5°	45.0	45.6	61.3	111.9	162.0	132.7	106.0	314.8	584.6	573.9
80°	25.5	25.5	39.1	69.6	110.5	85.6	74.3	133.8	185.1	162.6
82.5°	14.2	14.5	28.4	43.2	73.1	50.6	40.9	61.9	80.0	70.8
85°	5.9	6.5	17.5	20.4	34.9	25.2	16.6	26.1	29.6	26.4
87.5°	0.6	0.9	5.3	3.8	4.1	5.0	2.4	5.0	4.1	4.1
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°
681.4	0°	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4
691.5	2.5°	685.8	681.4	670.1	657.1	639.9	631.6	620.4	612.7	606.2	606.8
708.6	5°	699.2	687.9	662.7	631.3	592.3	564.4	534.8	514.4	497.8	494.2
732.3	7.5°	717.5	699.7	655.6	599.1	533.0	483.0	438.3	409.5	389.1	382.6
761.0	10°	741.2	715.4	646.4	558.5	463.4	399.8	351.8	329.3	315.4	310.6
794.8	12.5°	768.7	733.5	634.3	509.0	391.8	330.5	300.0	288.7	284.3	282.8
836.3	15°	803.4	756.0	615.9	450.4	331.1	288.1	275.1	273.6	274.2	273.6
886.0	17.5°	844.6	780.6	586.0	390.0	290.2	266.5	261.8	263.0	264.4	264.1
941.7	20°	889.6	804.9	547.8	336.4	262.4	251.1	248.4	249.6	250.8	250.2
1005.9	22.5°	940.8	830.9	505.5	294.6	243.7	236.9	233.9	234.2	234.2	233.1
1087.4	25°	1002.1	859.7	461.1	265.0	229.5	224.2	220.6	219.4	217.7	214.1
1186.3	27.5°	1075.2	890.2	418.4	244.3	218.2	213.2	209.1	206.1	201.7	195.7
1305.0	30°	1157.6	927.2	382.3	231.3	209.4	204.3	199.6	195.1	188.6	181.2
1441.5	32.5°	1254.4	966.8	355.9	222.7	201.4	196.0	190.4	185.1	178.0	170.6
1594.9	35°	1369.9	1014.8	340.5	216.8	195.1	188.0	181.8	175.9	170.6	164.1
1761.7	37.5°	1495.1	1065.8	335.8	213.8	191.0	180.0	172.9	168.8	168.2	164.3
1942.0	40°	1632.2	1126.2	339.4	212.0	186.6	172.3	164.6	163.8	165.2	158.4
2134.8	42.5°	1777.3	1197.8	345.3	210.0	180.3	164.6	157.2	157.2	156.1	146.6
2338.5	45°	1934.3	1280.4	351.2	204.9	172.9	156.9	151.3	149.2	144.2	135.0
2543.4	47.5°	2092.4	1364.5	355.6	195.7	164.1	150.4	145.4	140.7	133.3	125.0
2744.5	50°	2242.6	1440.1	350.9	182.1	154.0	144.2	138.9	132.4	124.4	118.7
2934.9	52.5°	2376.7	1505.5	330.8	166.1	143.3	137.7	133.0	126.1	119.6	113.7
3106.7	55°	2493.4	1558.5	295.2	151.0	133.8	132.1	127.3	118.7	109.9	104.8
3276.9	57.5°	2605.3	1598.8	250.8	138.6	125.3	125.9	118.7	111.0	102.8	97.4
3506.4	60°	2754.3	1652.7	205.8	127.0	116.1	117.9	110.2	104.5	94.2	87.4
3900.0	62.5°	2992.3	1736.5	163.5	112.8	105.4	106.0	102.8	95.9	83.5	75.5
4191.7	65°	3181.3	1705.7	128.8	97.4	93.3	94.2	94.2	86.8	73.4	64.3
4207.4	67.5°	3160.0	1460.5	102.8	82.3	81.7	82.3	84.4	78.2	65.1	57.7
3886.9	70°	2910.9	1161.7	82.3	68.4	71.1	69.6	75.5	71.4	58.6	51.2
3013.4	72.5°	2375.2	836.9	62.8	56.6	54.5	56.9	68.1	64.3	48.9	40.6
1596.1	75°	1387.9	446.6	46.8	44.7	39.4	47.4	60.4	54.8	37.3	29.9
489.2	77.5°	451.9	155.8	34.4	32.9	29.3	38.2	51.5	46.2	30.5	23.7
143.3	80°	121.1	47.1	23.4	21.6	19.0	28.4	40.9	36.7	21.9	15.4
61.6	82.5°	48.6	19.8	13.6	12.1	10.4	19.5	32.3	29.6	16.3	9.8
19.2	85°	15.7	6.5	5.0	3.8	4.7	12.1	19.2	20.1	11.5	5.0
3.0	87.5°	2.1	0.9	0.9	1.2	0.9	2.1	5.9	5.6	3.3	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>
681.4
600.8
486.2
376.1
307.1
281.9
273.3
263.6
249.9
232.5
213.5
195.1
180.6
170.9
163.5
164.1
158.7
146.6
134.7
124.7
117.9
113.1
104.2
96.8
86.5
74.9
63.4
56.6
50.3
39.7
29.0
22.8
15.1
9.8
3.8
0.0
0.0

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