

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: P944900

Luminaire Tested: **GALN-SB1A-735-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3614 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

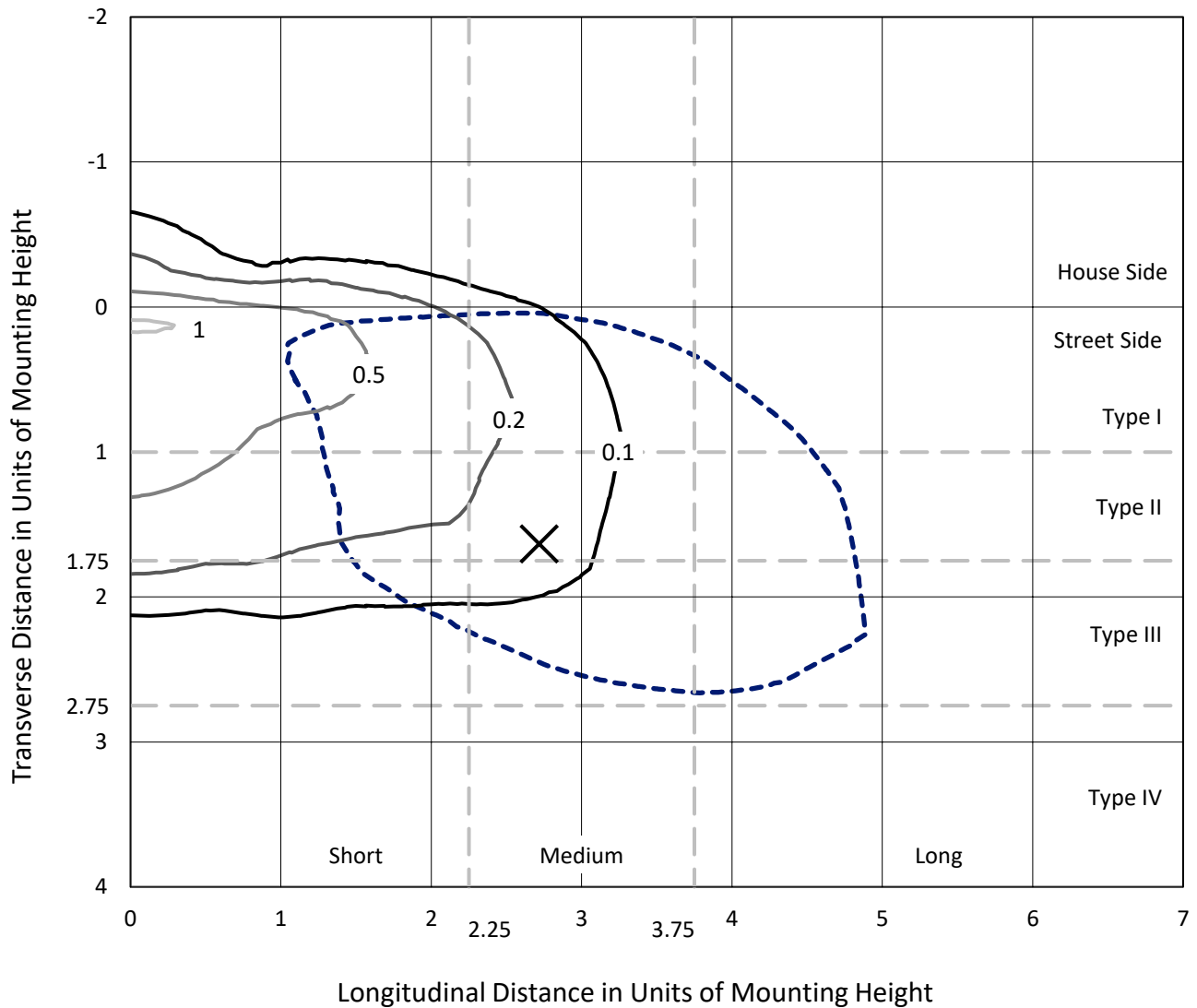
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

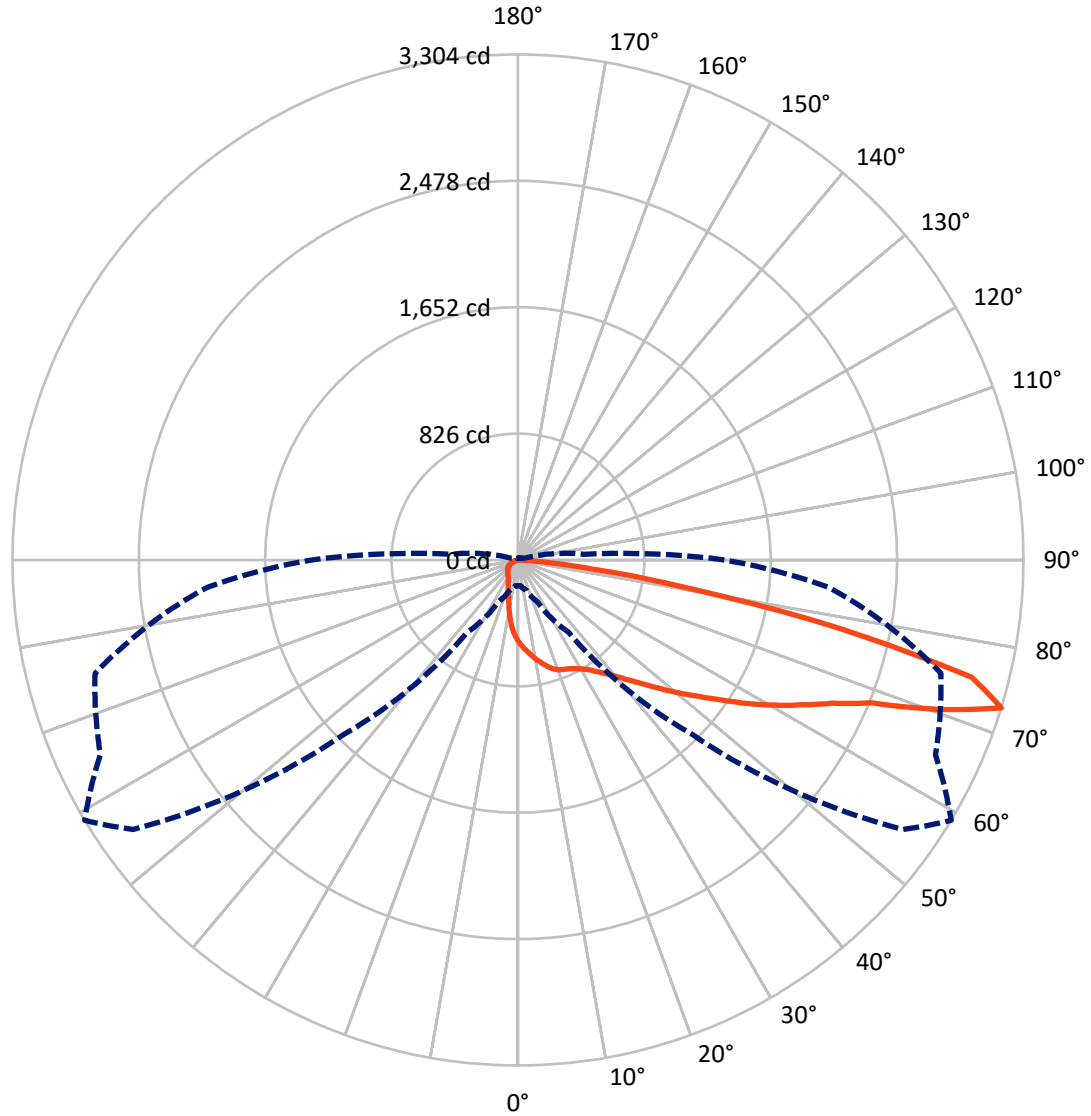
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.7	0.0	381.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3232.3	0.0	3232.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	3614.0	0.0	3614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.3
10°-20°	128.4	3.6
20°-30°	203.5	5.6
30°-40°	326.6	9.0
40°-50°	521.7	14.4
50°-60°	755.4	20.9
60°-70°	896.4	24.8
70°-80°	665.5	18.4
80°-90°	68.0	1.9
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°	3614.0	100.0
0°-180°	3614.0	100.0

Coefficient of Utilization



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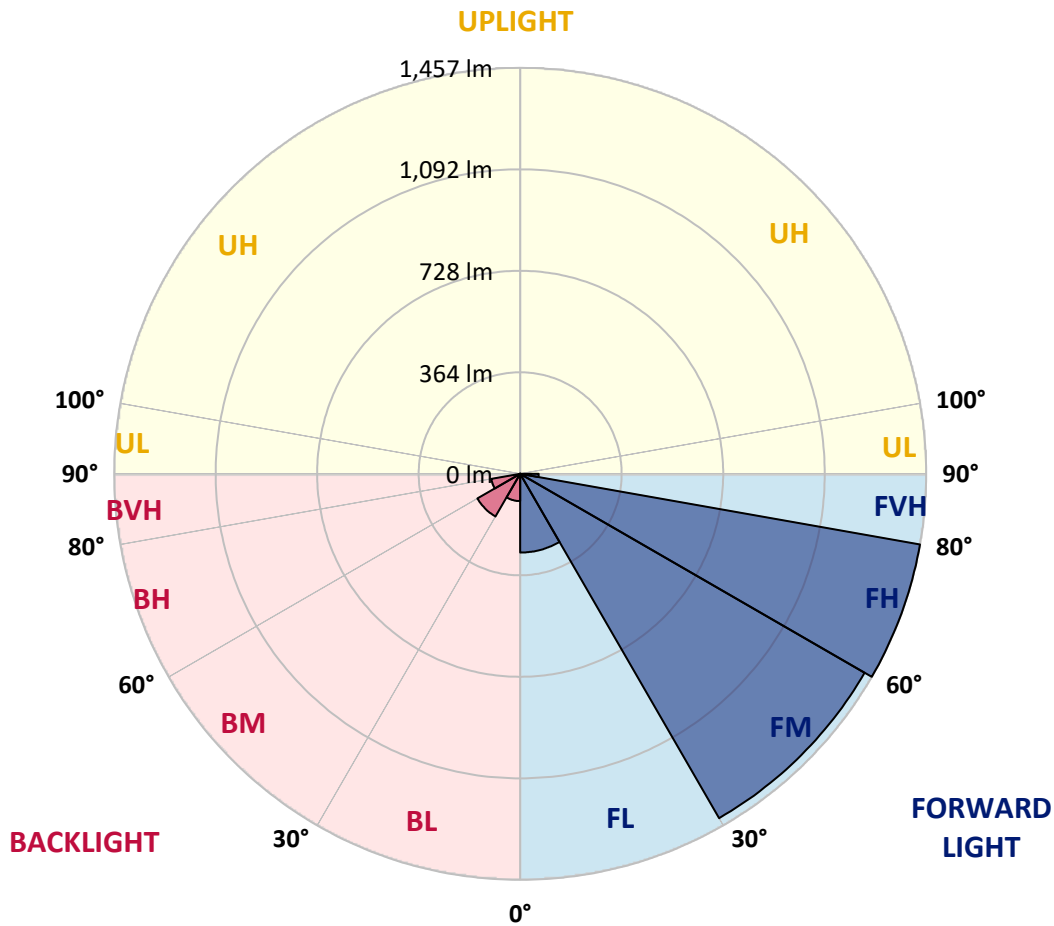
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.5	7.8			
FM (30°-60°)	1426.8	39.5			
FH (60°-80°)	1456.6	40.3			G1/1800
FVH (80°-90°)	66.3	1.8			G1/100
BL (0°-30°)	97.8	2.7	B0/110		
BM (30°-60°)	177.0	4.9	B0/220		
BH (60°-80°)	105.3	2.9	B0/110		G0/110
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4
2.5°	592.9	589.6	590.1	584.4	580.4	576.2	567.9	566.7	560.9	550.5
5°	644.6	642.5	640.6	634.2	626.0	615.6	601.7	596.7	585.9	567.9
7.5°	682.4	679.8	680.7	674.3	667.7	656.2	637.1	627.9	613.5	586.1
10°	689.7	688.3	694.4	696.8	696.8	689.4	670.8	661.6	640.6	605.7
12.5°	648.6	648.9	664.2	682.6	706.7	713.5	701.0	691.1	670.3	626.4
15°	600.7	601.0	615.8	639.4	678.8	718.2	728.1	721.8	700.3	648.9
17.5°	571.9	570.8	580.7	600.0	641.3	696.8	744.7	748.9	731.4	673.6
20°	567.9	565.8	571.0	580.7	610.2	669.9	746.5	766.6	763.5	701.7
22.5°	592.5	589.2	586.3	586.8	599.3	647.4	741.8	776.5	796.6	735.5
25°	641.1	635.9	626.7	614.9	612.3	642.7	738.5	787.4	827.2	778.6
27.5°	700.5	693.2	675.5	657.8	642.7	655.9	745.4	804.6	861.9	828.9
30°	765.9	756.9	739.2	705.7	681.7	685.4	761.6	827.2	906.3	885.8
32.5°	861.9	841.2	810.2	759.0	727.2	717.3	786.2	856.0	961.3	961.5
35°	944.3	932.7	901.6	837.9	772.5	759.5	818.5	896.6	1037.5	1061.8
37.5°	998.3	982.5	955.1	907.2	842.8	802.9	861.7	946.4	1118.2	1176.0
40°	1058.7	1043.1	1006.8	961.7	924.4	877.5	916.2	1003.7	1206.6	1293.2
42.5°	1131.6	1111.3	1068.4	1019.8	980.8	975.6	987.4	1075.2	1297.5	1420.6
45°	1217.3	1198.1	1148.8	1087.5	1053.3	1044.1	1077.1	1158.5	1398.7	1560.3
47.5°	1297.5	1275.3	1222.2	1166.3	1128.3	1099.3	1172.4	1256.9	1513.4	1706.4
50°	1365.7	1343.0	1294.4	1234.7	1209.0	1171.0	1266.1	1366.6	1627.1	1854.8
52.5°	1412.4	1392.3	1335.2	1294.7	1277.2	1258.1	1375.8	1482.9	1740.4	1990.7
55°	1401.8	1383.8	1333.6	1330.8	1329.6	1349.6	1507.0	1614.8	1855.7	2119.3
57.5°	1368.0	1347.7	1285.0	1328.2	1369.9	1431.3	1649.0	1770.8	1982.2	2240.6
60°	1268.7	1261.6	1223.4	1323.2	1386.9	1511.3	1811.4	1927.5	2119.1	2347.2
62.5°	1058.5	1064.6	1064.4	1333.6	1417.6	1602.3	1958.8	2086.0	2252.8	2449.9
65°	792.6	813.8	840.9	1240.1	1458.6	1764.9	2135.1	2258.0	2388.7	2569.2
67.5°	532.5	549.5	567.9	1017.4	1336.4	1935.7	2427.9	2493.7	2551.6	2701.6
70°	304.8	310.3	336.0	635.4	1030.2	1888.5	2904.8	2928.6	2794.3	2864.7
72.5°	170.8	168.9	202.9	301.5	575.7	1617.2	3071.8	3304.2	3011.7	2862.1
75°	114.2	114.4	139.7	190.2	224.4	1132.1	2647.1	3063.8	2881.4	2537.9
77.5°	77.9	80.5	102.6	147.0	103.8	552.4	1751.2	2146.2	2332.8	1959.8
80°	33.7	34.0	67.7	105.5	70.1	175.8	907.9	1149.8	1463.1	1100.5
82.5°	17.5	19.8	43.2	68.2	44.1	61.6	429.0	502.3	613.9	323.0
85°	6.1	7.3	26.7	33.5	22.2	21.9	149.4	152.2	130.0	48.6
87.5°	0.0	1.2	10.4	8.3	2.8	2.6	17.7	14.9	11.8	6.8
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°
534.4	0°	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4	534.4
539.9	2.5°	534.9	528.5	518.1	505.4	490.5	482.5	471.0	463.9	457.5	457.7
547.2	5°	535.6	525.0	498.6	470.5	439.3	416.5	391.0	373.0	359.4	356.0
554.7	7.5°	537.7	519.8	476.6	429.9	378.0	339.5	304.4	282.2	269.7	266.4
562.5	10°	540.6	514.1	451.8	380.3	315.9	269.7	240.4	226.3	220.6	216.4
572.4	12.5°	542.9	508.2	420.7	329.1	260.7	224.6	202.4	190.6	185.7	182.6
584.0	15°	546.9	500.4	387.0	281.5	223.4	194.0	173.0	164.2	162.8	163.3
596.7	17.5°	550.9	492.9	349.2	244.2	196.1	167.1	154.3	152.9	154.8	156.7
611.3	20°	555.4	482.0	311.0	216.1	170.8	148.4	145.1	146.1	147.0	150.3
631.4	22.5°	562.0	468.4	277.5	192.3	149.8	139.4	137.8	138.5	139.2	142.5
657.8	25°	571.5	453.7	250.3	170.4	136.6	132.1	130.5	130.5	131.4	134.5
688.5	27.5°	581.4	433.0	228.4	150.1	128.8	124.1	121.3	121.3	122.5	126.0
727.0	30°	592.5	414.1	211.2	135.0	122.2	116.1	112.3	111.4	112.8	117.3
782.6	32.5°	612.5	401.8	198.9	127.9	116.3	108.8	103.6	101.0	102.4	107.6
860.5	35°	643.0	399.0	190.4	124.3	110.7	102.2	94.9	90.8	92.0	97.4
956.5	37.5°	678.6	404.9	182.2	119.6	105.2	95.8	86.1	80.9	82.8	87.8
1066.3	40°	729.8	429.4	175.8	116.1	99.8	88.2	77.4	72.2	75.3	79.5
1180.5	42.5°	791.6	473.1	174.1	112.8	93.2	80.2	69.4	65.6	68.0	72.0
1295.8	45°	868.3	528.8	181.7	108.5	85.9	72.4	63.0	60.9	61.6	65.6
1404.8	47.5°	950.6	585.9	202.4	104.8	79.5	66.1	58.0	56.2	55.7	59.5
1504.4	50°	1033.9	636.6	227.0	101.9	75.0	60.9	54.3	51.9	50.7	53.1
1602.8	52.5°	1116.3	676.9	243.0	97.2	70.5	55.7	51.0	47.4	45.3	46.5
1700.7	55°	1199.8	712.3	244.0	90.1	66.3	52.4	47.7	43.7	41.1	41.1
1795.1	57.5°	1277.9	743.5	230.1	80.7	60.4	49.3	43.2	39.9	37.0	36.1
1878.9	60°	1347.0	766.6	206.9	70.1	55.2	45.3	38.7	36.1	32.6	30.7
1953.4	62.5°	1408.6	777.9	175.3	59.2	48.8	40.6	34.4	31.6	26.9	24.5
2029.2	65°	1460.8	766.4	142.3	49.1	43.4	35.4	29.5	26.7	21.5	18.6
2114.3	67.5°	1512.4	713.5	107.6	41.3	37.8	29.7	24.3	21.7	17.9	15.6
2176.4	70°	1519.0	602.4	75.3	34.7	31.4	22.9	19.6	17.9	14.6	12.5
2037.9	72.5°	1352.2	433.4	45.8	28.3	24.5	16.3	15.6	14.2	10.9	9.4
1665.1	75°	1080.9	265.7	26.9	21.2	16.3	11.6	11.6	10.1	7.3	6.1
1149.5	77.5°	747.0	139.0	15.8	13.7	9.7	6.8	7.6	6.1	3.5	2.8
455.4	80°	299.2	52.9	8.5	6.4	4.5	3.1	2.6	1.4	0.7	0.5
93.4	82.5°	59.7	13.9	2.8	1.7	1.7	0.7	0.0	0.0	0.0	0.0
25.7	85°	15.3	3.1	0.7	0.5	0.5	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	4.7	0.0	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>
534.4
462.9
361.0
269.7
219.0
184.3
164.0
157.4
151.2
143.5
135.7
127.4
118.4
109.0
99.1
89.2
80.2
72.7
67.5
61.8
54.0
47.4
41.5
36.3
30.2
24.3
18.6
15.6
12.3
9.2
6.1
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0.7
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