

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: P944995

Luminaire Tested: **GALN-SB1A-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4006 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

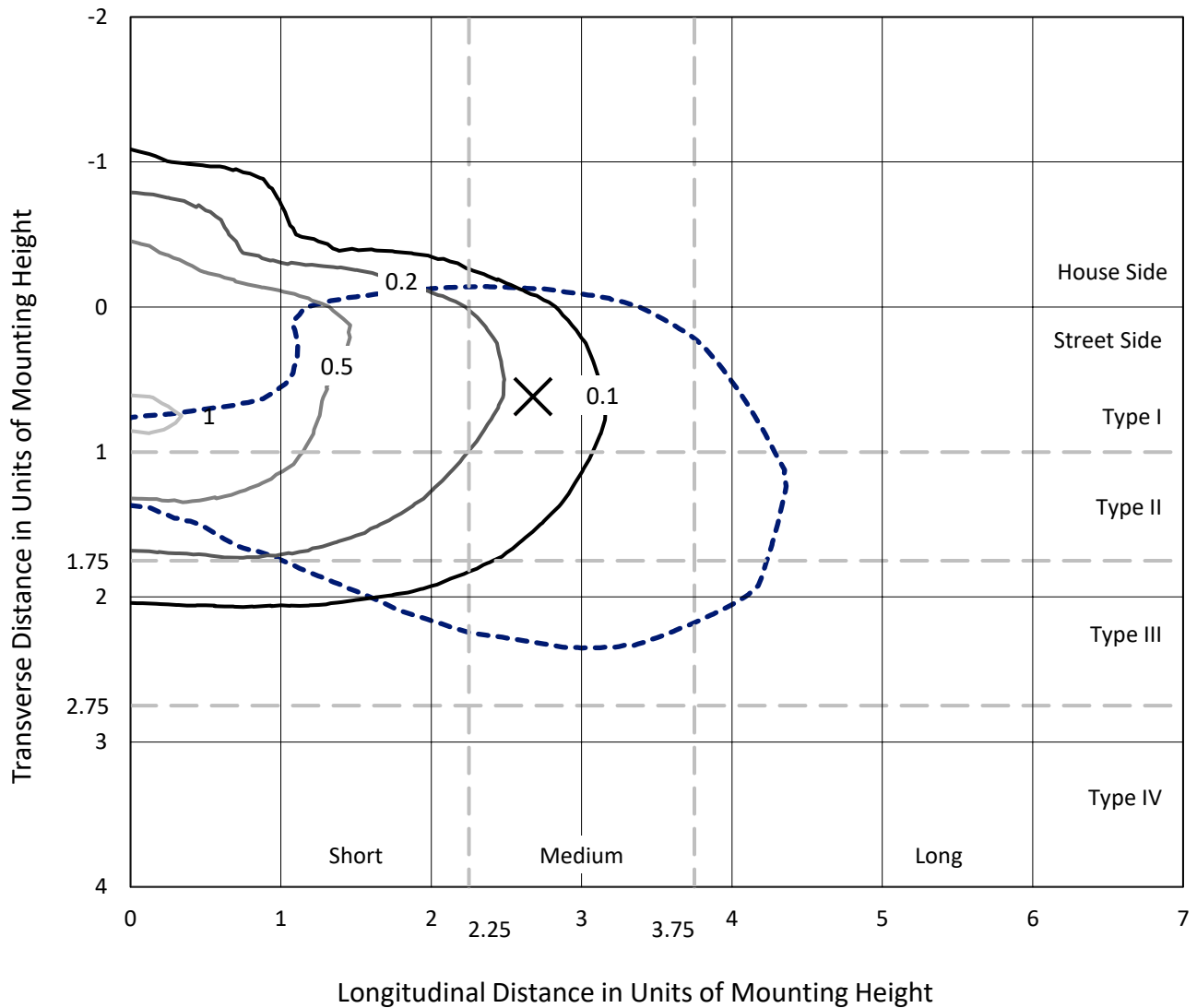
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

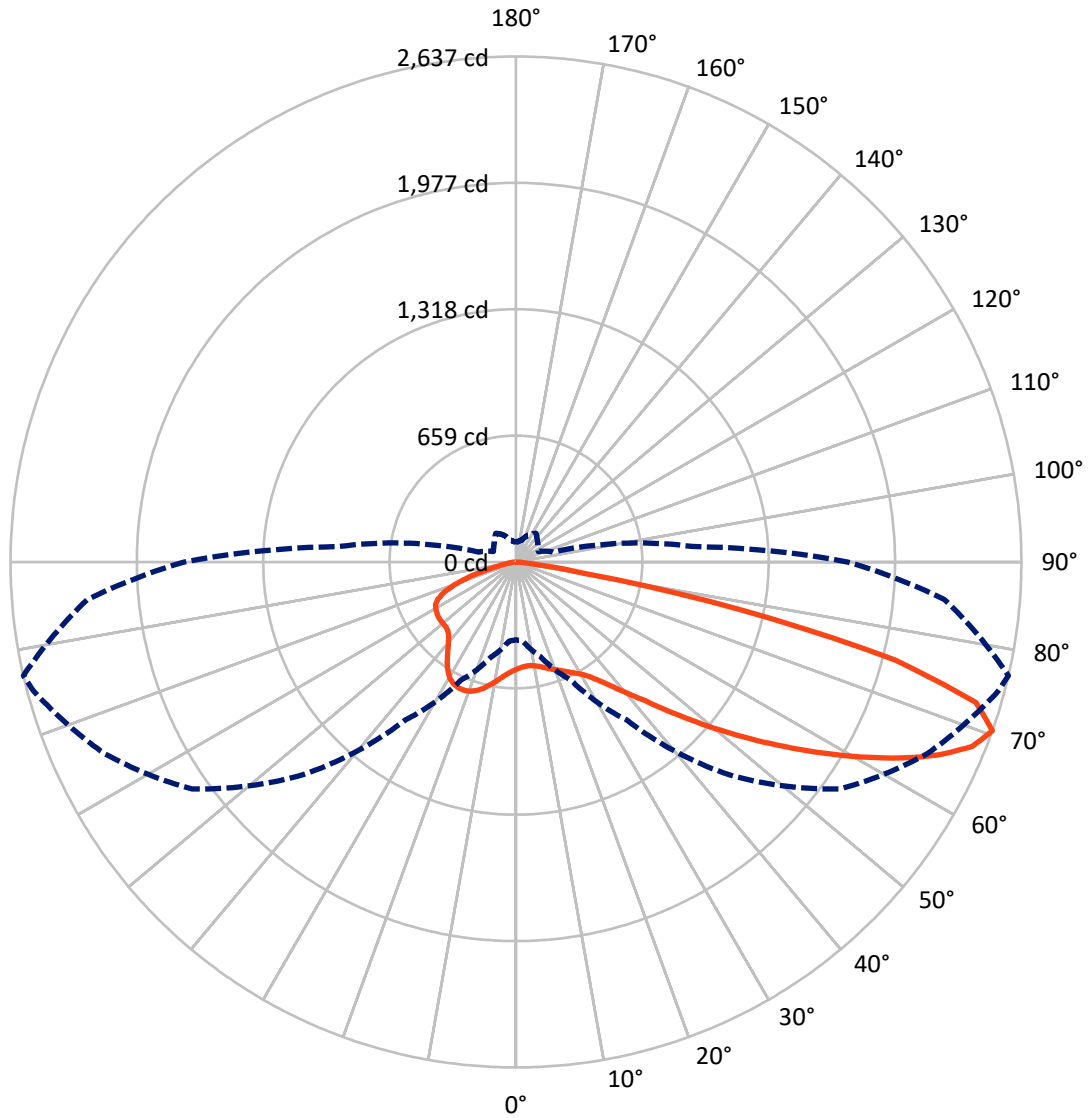
× Max cd
 - - - 1/2 Max cd



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 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	877.3	0.0	877.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3128.7	0.0	3128.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	4006.0	0.0	4006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	1.3
10°-20°	153.8	3.8
20°-30°	263.1	6.6
30°-40°	423.1	10.6
40°-50°	660.5	16.5
50°-60°	882.3	22.0
60°-70°	940.4	23.5
70°-80°	578.9	14.5
80°-90°	50.7	1.3
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°	4006.0	100.0
0°-180°	4006.0	100.0

Coefficient of Utilization



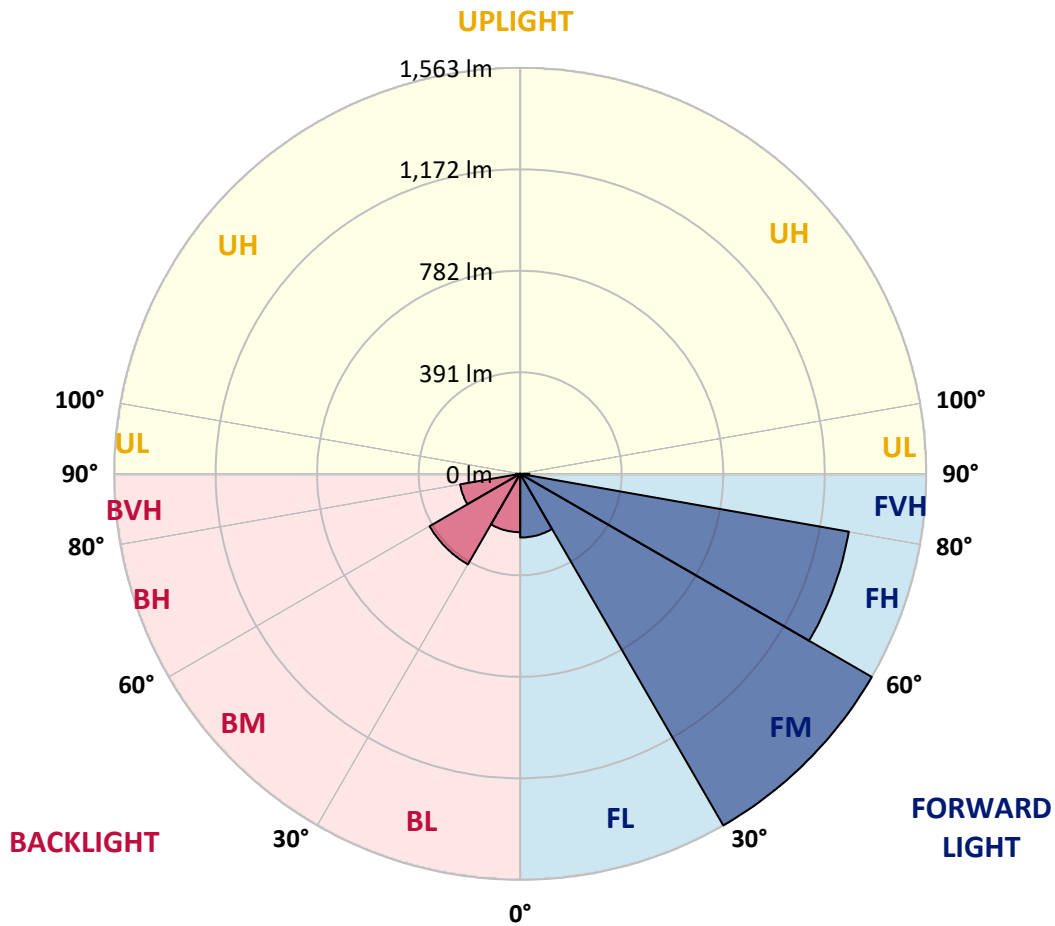
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.4	6.1			
FM (30°-60°)	1563.1	39.0			
FH (60°-80°)	1284.8	32.1			G1/1800
FVH (80°-90°)	35.5	0.9			G1/100
BL (0°-30°)	224.8	5.6	B1/500		
BM (30°-60°)	402.8	10.1	B1/1000		
BH (60°-80°)	234.4	5.9	B1/500		G1/500
BVH (80°-90°)	15.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9
2.5°	515.2	515.0	517.6	518.5	523.4	526.9	533.4	540.4	549.4	550.5
5°	485.4	485.4	488.5	491.8	498.1	505.1	515.2	527.3	542.9	545.3
7.5°	460.2	461.8	464.5	470.9	478.2	488.3	503.7	520.9	541.4	545.3
10°	439.9	441.7	445.0	450.1	461.2	475.2	495.3	517.4	544.9	551.1
12.5°	433.5	435.4	437.2	441.1	451.4	467.8	491.8	519.1	553.3	559.5
15°	448.3	450.5	449.1	448.1	453.4	468.4	493.4	525.0	563.8	572.6
17.5°	482.3	483.2	479.9	470.2	469.4	477.4	501.2	533.2	576.9	586.6
20°	537.3	535.9	529.1	510.0	499.2	497.5	514.6	545.5	590.5	600.7
22.5°	612.0	610.4	596.8	566.7	542.5	526.5	533.8	561.5	605.7	617.1
25°	705.2	702.9	683.0	642.0	604.4	564.8	560.1	582.7	624.3	635.0
27.5°	813.9	812.0	790.5	736.3	682.2	617.3	592.7	607.5	643.8	655.9
30°	930.8	936.2	898.0	839.7	771.2	685.9	636.6	638.1	669.0	679.9
32.5°	1068.3	1077.5	1031.6	957.7	864.2	760.3	692.0	680.7	705.8	714.8
35°	1204.5	1215.0	1176.8	1095.2	987.5	848.2	749.9	729.8	754.6	764.5
37.5°	1322.3	1336.2	1316.6	1245.6	1119.4	954.0	825.4	787.4	814.7	827.0
40°	1415.2	1436.6	1435.1	1390.8	1274.9	1082.5	921.2	858.6	889.4	902.7
42.5°	1490.7	1509.2	1525.2	1523.0	1437.2	1228.3	1033.8	951.2	974.5	989.9
45°	1542.9	1562.5	1597.0	1634.2	1593.3	1384.5	1162.9	1060.9	1082.3	1105.4
47.5°	1589.4	1611.8	1656.5	1715.4	1725.9	1541.2	1304.2	1188.7	1208.2	1232.2
50°	1593.5	1612.8	1682.2	1765.7	1820.0	1691.8	1456.1	1332.1	1350.4	1376.1
52.5°	1494.4	1524.8	1645.8	1764.2	1863.3	1817.8	1606.9	1481.3	1501.8	1532.6
55°	1160.0	1204.5	1539.4	1709.2	1847.9	1899.2	1750.3	1639.9	1666.2	1698.4
57.5°	999.2	1018.7	1222.0	1609.1	1777.8	1920.4	1871.3	1800.1	1842.4	1877.7
60°	898.0	914.2	1034.4	1453.4	1685.4	1886.9	1964.9	1949.5	2022.5	2064.6
62.5°	789.7	805.1	914.4	1213.6	1567.3	1831.3	2024.0	2087.4	2207.2	2253.1
65°	682.2	695.3	800.1	1019.7	1417.1	1775.7	2054.5	2206.6	2378.1	2425.7
67.5°	562.4	573.2	672.3	860.3	1234.5	1699.6	2069.7	2300.3	2526.8	2567.7
70°	405.8	414.2	516.6	680.3	1005.3	1568.7	2063.6	2366.8	2604.0	2636.6
72.5°	191.8	199.4	319.6	441.7	710.1	1313.9	1939.0	2314.1	2525.6	2509.4
75°	102.4	108.9	183.6	242.3	375.0	900.7	1586.8	1993.4	2120.8	2042.0
77.5°	69.3	74.5	113.7	145.5	171.3	427.6	1019.9	1380.2	1327.8	1197.8
80°	55.0	60.3	93.1	98.5	82.9	154.5	421.4	638.9	459.0	367.0
82.5°	42.3	48.2	78.4	71.4	45.1	63.4	122.7	202.1	117.6	89.5
85°	25.9	32.2	61.5	45.5	25.4	28.9	41.6	56.2	35.9	30.0
87.5°	13.1	18.5	31.2	16.6	11.5	6.8	11.1	11.1	9.4	8.2
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°
558.9	0°	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9
556.0	2.5°	560.9	565.0	572.0	578.6	583.7	588.6	593.5	596.2	597.0	600.3
559.1	5°	567.5	575.1	588.6	601.3	609.3	614.3	617.8	619.8	620.2	621.2
567.5	7.5°	579.6	591.7	610.6	623.3	629.2	628.8	627.4	622.3	620.2	618.4
579.8	10°	596.6	612.6	635.8	644.6	640.9	631.1	618.4	603.4	596.4	589.6
596.6	12.5°	617.8	638.1	660.8	660.4	642.2	616.9	587.4	564.4	549.8	539.4
617.3	15°	643.4	666.8	684.2	670.3	630.3	584.9	541.6	511.7	498.6	487.1
638.3	17.5°	669.9	694.9	702.9	667.2	600.3	537.5	488.5	464.9	452.0	445.8
660.8	20°	695.7	720.5	714.0	649.6	554.8	483.8	440.1	427.2	424.5	425.9
682.8	22.5°	723.0	745.2	716.2	615.5	496.7	428.8	404.8	405.2	411.2	415.5
705.8	25°	750.9	765.9	710.3	566.3	434.3	388.4	382.4	389.0	400.7	409.1
731.6	27.5°	777.8	784.4	697.4	505.3	380.8	359.5	360.5	374.0	391.7	403.4
763.0	30°	808.2	800.8	672.5	436.8	343.7	334.6	343.2	359.0	376.7	387.1
802.6	32.5°	842.4	814.9	633.1	373.4	317.4	314.7	328.9	339.1	346.9	350.0
855.1	35°	885.1	834.8	582.7	328.9	293.8	300.2	313.7	308.6	305.5	303.9
925.7	37.5°	940.5	861.7	523.6	300.0	274.7	289.7	295.2	279.2	267.1	261.2
1011.3	40°	1007.2	901.1	466.8	277.6	262.6	280.7	271.0	251.7	236.4	227.9
1107.5	42.5°	1081.2	942.3	418.9	260.8	255.8	273.3	253.2	230.2	205.4	202.7
1222.2	45°	1159.0	984.8	386.3	247.8	252.6	266.9	242.9	205.8	188.1	199.0
1337.3	47.5°	1236.7	1023.8	366.6	238.2	250.9	259.7	233.9	192.2	179.7	195.5
1460.6	50°	1323.3	1058.7	357.8	231.2	249.1	256.9	220.3	188.8	170.9	181.4
1588.2	52.5°	1409.3	1085.7	351.2	224.2	246.4	254.6	213.8	184.6	160.2	160.9
1716.6	55°	1495.0	1103.4	344.1	215.0	240.5	249.7	213.2	180.1	152.2	149.4
1852.4	57.5°	1586.6	1113.4	335.2	204.8	230.2	237.2	212.6	176.6	149.8	145.1
1991.3	60°	1679.7	1128.2	323.8	192.2	216.5	222.2	211.1	175.4	148.3	140.3
2122.2	62.5°	1763.2	1133.3	310.0	180.3	198.8	207.4	208.0	174.4	144.4	130.7
2231.0	65°	1818.0	1111.2	286.0	166.8	179.7	192.2	202.1	170.9	137.5	123.7
2284.7	67.5°	1815.7	1048.0	248.5	149.4	161.3	175.4	193.5	165.0	129.0	115.1
2244.1	70°	1731.2	923.2	200.9	129.0	140.9	157.4	182.4	156.1	119.0	105.7
1995.4	72.5°	1484.8	722.6	145.9	105.3	117.4	138.7	168.0	145.5	108.7	97.2
1474.7	75°	1060.7	457.3	98.9	80.8	91.3	117.6	150.2	132.9	99.3	97.7
738.6	77.5°	541.8	218.5	65.4	59.1	63.6	92.7	126.2	118.8	100.7	80.6
210.1	80°	176.2	80.6	41.2	40.2	42.3	61.8	97.7	97.5	76.3	54.8
50.9	82.5°	56.2	34.7	26.9	25.9	24.8	38.8	68.1	77.1	51.5	34.7
18.3	85°	22.4	20.7	15.8	14.6	10.5	18.3	35.7	51.3	38.4	25.0
4.7	87.5°	8.2	8.2	4.3	3.1	2.3	6.2	9.6	15.4	22.0	12.9
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>
558.9
602.2
622.9
618.8
587.6
536.9
485.8
447.7
425.3
416.5
411.4
406.2
389.6
351.7
305.5
262.6
228.6
205.4
204.8
202.9
189.2
165.2
151.4
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140.9
130.7
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<i>106.9</i>
96.6
92.1
71.8
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