

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: P938797

Luminaire Tested: **GALN-SB1A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4035 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

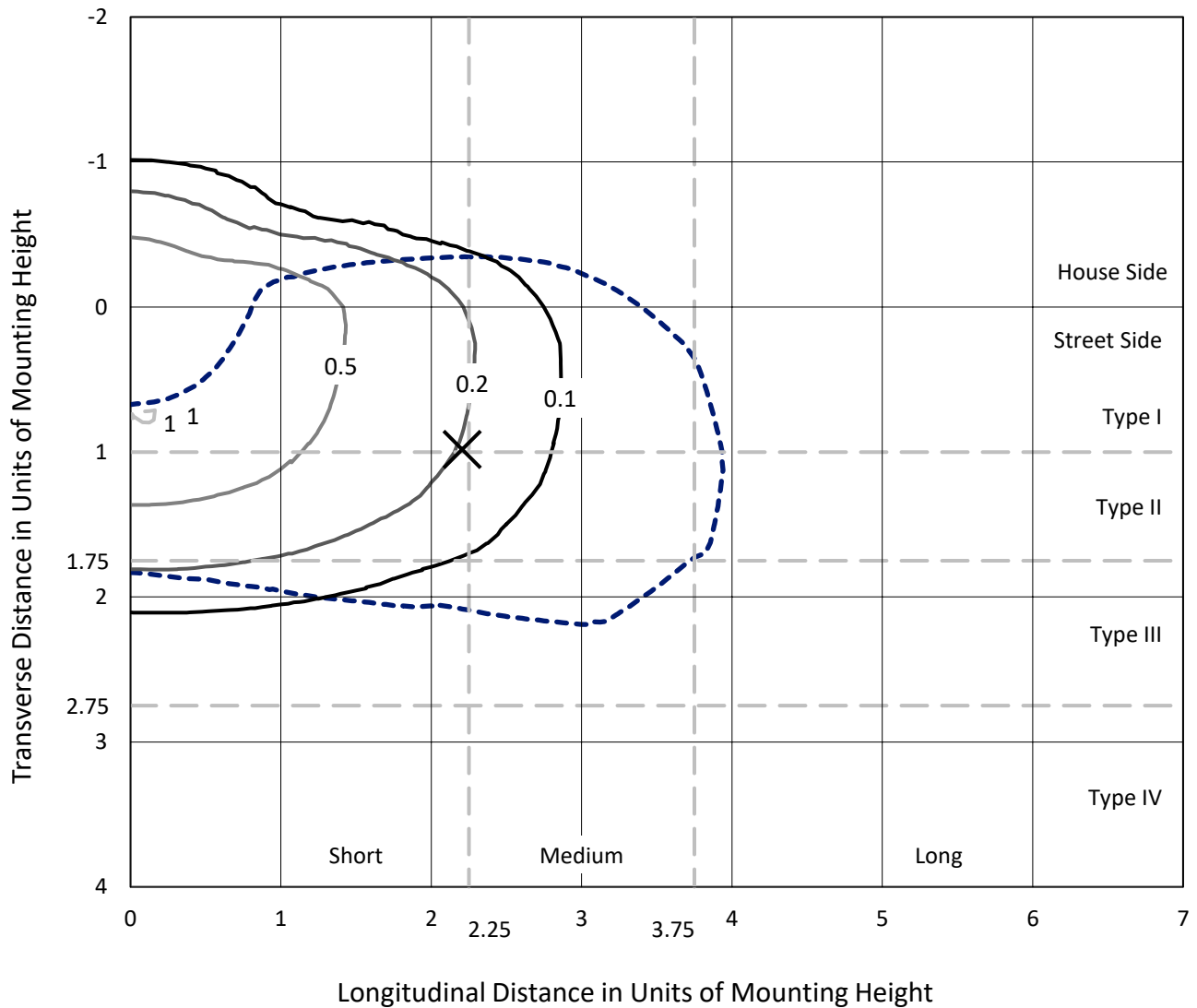
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

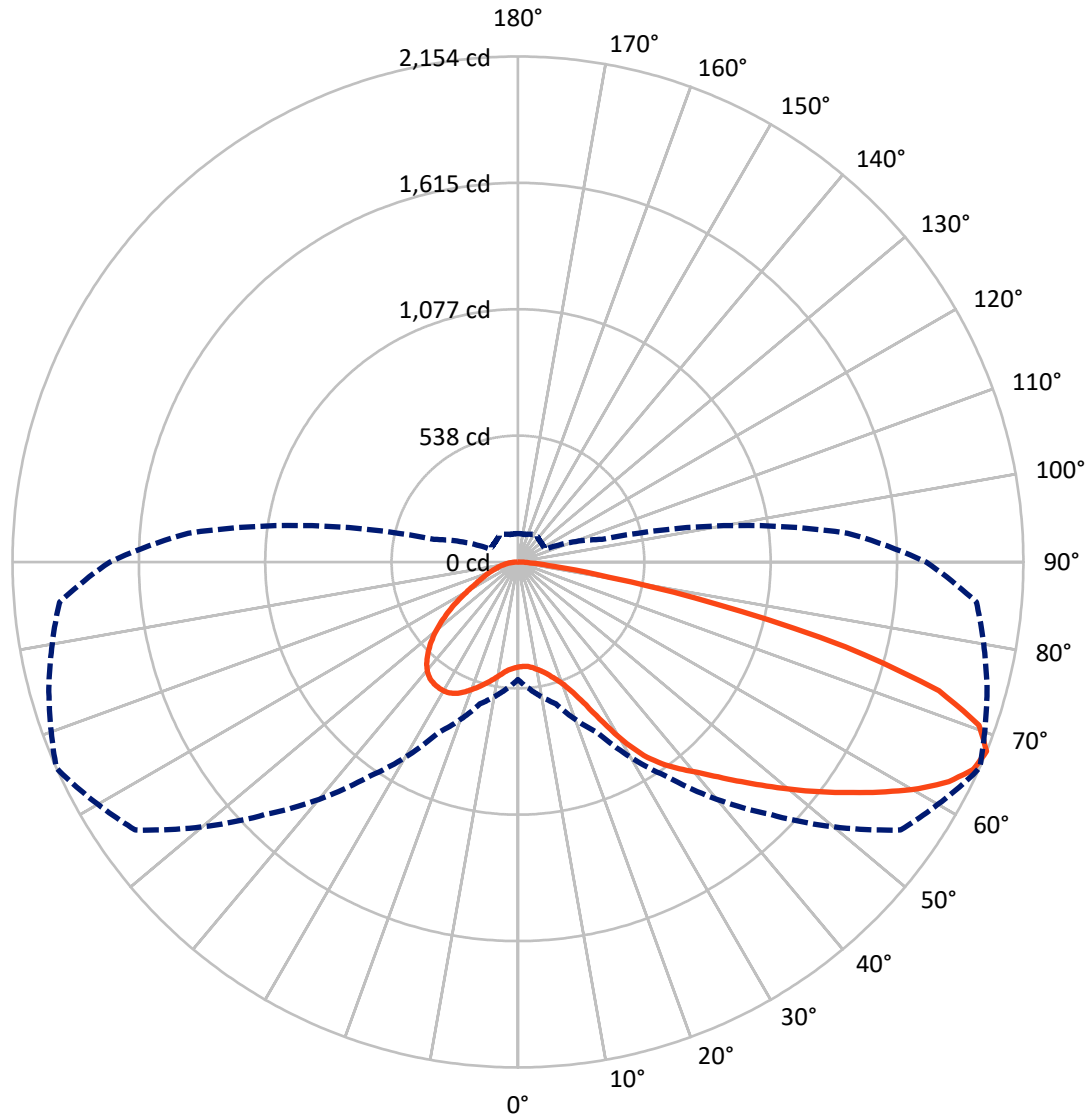
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1003.3	0.0	1003.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	3031.7	0.0	3031.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	4035.0	0.0	4035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	1.1
10°-20°	146.6	3.6
20°-30°	282.6	7.0
30°-40°	495.4	12.3
40°-50°	736.5	18.3
50°-60°	933.6	23.1
60°-70°	913.5	22.6
70°-80°	435.8	10.8
80°-90°	46.6	1.2
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°	4035.0	100.0
0°-180°	4035.0	100.0

Coefficient of Utilization



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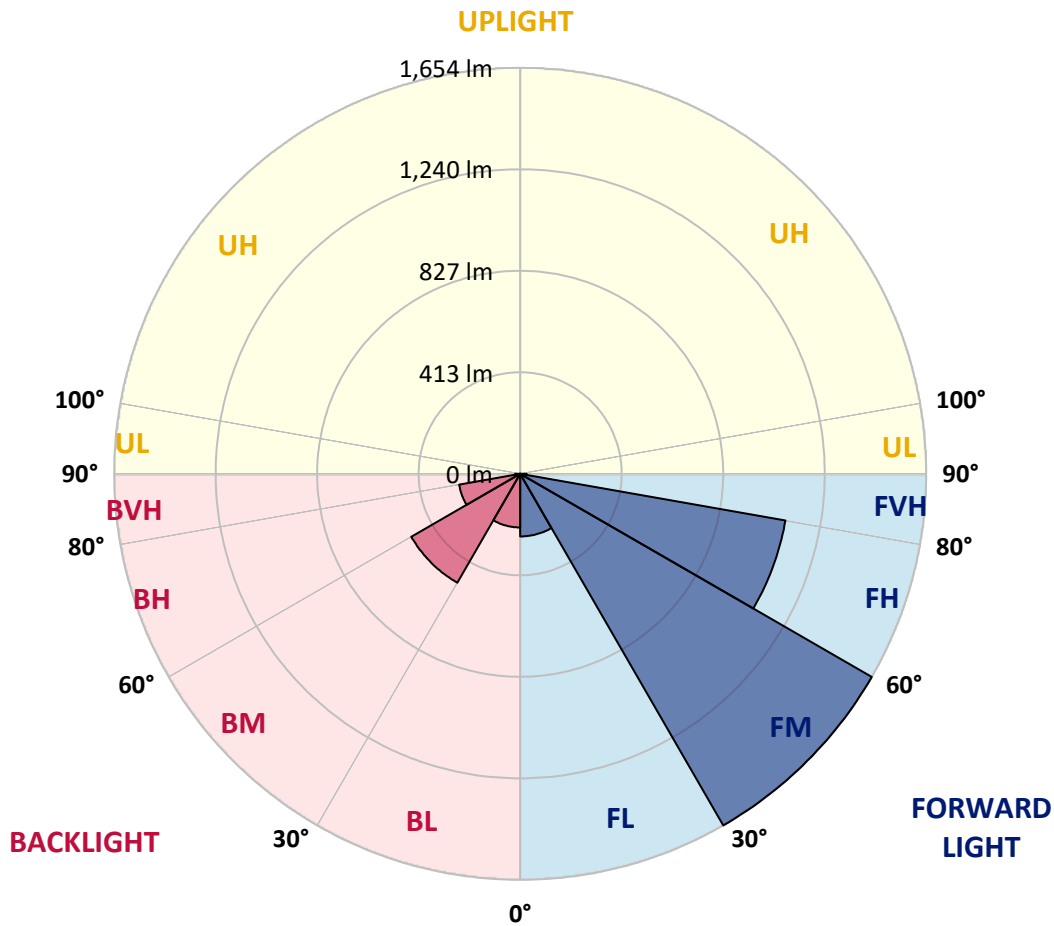
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	255.0	6.3			
FM (30°-60°)	1653.5	41.0			
FH (60°-80°)	1096.8	27.2			G1/1800
FVH (80°-90°)	26.4	0.7			G1/100
BL (0°-30°)	218.6	5.4	B1/500		
BM (30°-60°)	512.1	12.7	B1/1000		
BH (60°-80°)	252.5	6.3	B1/500		G1/500
BVH (80°-90°)	20.2	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5
2.5°	442.9	445.4	444.8	443.7	443.5	443.9	444.6	445.2	445.0	446.1
5°	441.6	444.1	443.9	443.9	444.8	446.5	447.5	448.6	447.5	448.8
7.5°	442.4	444.4	445.2	446.1	448.2	451.4	453.9	456.2	455.0	456.4
10°	453.3	454.7	455.6	455.6	457.1	460.7	463.2	467.5	466.4	468.7
12.5°	473.0	474.5	474.5	473.6	474.7	477.0	477.9	482.5	480.6	484.4
15°	497.1	500.1	497.8	496.3	496.7	499.1	498.8	502.4	500.5	503.7
17.5°	523.9	527.7	523.9	523.6	522.8	525.3	525.6	528.7	525.3	527.7
20°	555.4	560.7	557.6	558.6	556.7	557.8	558.8	563.5	558.2	559.9
22.5°	600.0	606.3	602.9	607.0	605.7	604.8	604.6	612.9	604.6	605.3
25°	664.8	672.5	666.5	672.0	672.0	674.8	678.0	688.6	674.8	670.8
27.5°	760.7	768.3	756.6	760.0	759.0	765.7	762.4	788.6	773.8	767.2
30°	876.0	889.6	867.5	866.7	865.6	876.4	881.3	898.7	883.6	877.0
32.5°	1000.6	1014.9	988.6	980.9	976.9	983.5	979.4	993.4	983.1	972.9
35°	1132.5	1146.5	1121.5	1106.6	1090.5	1076.8	1062.3	1065.9	1056.2	1040.7
37.5°	1257.2	1282.8	1256.3	1240.4	1210.7	1183.8	1143.5	1126.8	1117.7	1103.5
40°	1384.2	1398.8	1378.6	1365.1	1332.9	1290.7	1226.2	1190.8	1178.5	1164.7
42.5°	1477.6	1491.6	1480.8	1471.5	1446.3	1397.3	1314.0	1269.7	1251.9	1236.4
45°	1551.8	1562.2	1555.5	1558.8	1548.0	1500.5	1404.9	1354.3	1335.8	1317.0
47.5°	1581.7	1592.8	1603.6	1623.7	1642.2	1607.2	1502.7	1445.8	1426.3	1407.1
50°	1578.3	1589.6	1621.0	1663.8	1721.0	1709.4	1605.7	1543.4	1525.3	1503.3
52.5°	1551.2	1563.9	1604.2	1675.4	1766.6	1785.9	1710.6	1644.1	1627.1	1600.8
55°	1480.0	1487.6	1548.0	1648.9	1777.4	1839.3	1813.5	1751.3	1734.4	1697.7
57.5°	1347.9	1358.9	1446.9	1577.5	1750.3	1875.6	1903.8	1864.1	1847.8	1795.0
60°	1175.5	1193.1	1293.8	1457.5	1681.2	1875.4	1985.8	1975.0	1961.4	1890.8
62.5°	980.5	1000.9	1097.7	1287.9	1560.3	1822.2	2037.1	2067.9	2060.9	1979.2
65°	753.0	767.0	863.5	1068.5	1372.3	1707.9	2043.1	2131.2	2132.5	2046.4
67.5°	501.4	541.7	625.4	801.8	1120.4	1521.1	1990.9	2141.6	2153.9	2069.6
70°	244.6	297.6	379.7	521.1	801.8	1234.7	1854.6	2056.4	2083.8	2002.1
72.5°	101.5	118.7	163.5	257.2	460.3	833.2	1580.7	1825.3	1876.0	1774.0
75°	68.5	74.2	93.5	131.9	209.7	410.9	1139.9	1361.0	1442.7	1339.8
77.5°	52.8	56.4	68.1	92.2	124.7	155.4	610.1	820.2	862.4	798.4
80°	41.6	44.3	50.9	67.2	88.4	83.1	208.0	371.6	396.0	332.2
82.5°	36.0	37.1	36.5	45.6	58.7	48.5	68.3	137.2	151.4	109.8
85°	26.1	29.0	30.3	28.2	31.2	24.6	28.0	48.5	53.4	47.7
87.5°	10.6	15.7	19.3	18.2	11.4	7.0	8.7	14.2	16.3	17.8
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°
447.5	0°	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5	447.5
447.7	2.5°	448.0	449.4	450.5	451.8	452.6	453.9	456.4	457.9	458.1	459.2
451.1	5°	452.0	454.1	456.4	459.8	463.6	466.8	471.7	475.1	476.4	477.4
459.4	7.5°	460.7	463.6	467.9	473.8	479.3	483.6	489.5	493.5	497.6	499.1
472.6	10°	473.6	477.9	484.0	492.1	498.0	503.5	509.7	513.0	517.1	518.8
488.2	12.5°	489.7	494.2	502.2	513.5	519.0	522.8	524.9	524.1	524.9	526.4
507.1	15°	508.2	513.0	522.2	534.2	538.1	534.7	530.0	525.8	525.1	525.6
530.0	17.5°	530.0	533.6	544.2	554.4	551.6	537.6	527.5	520.7	517.3	516.2
559.3	20°	560.5	560.5	569.2	575.6	557.1	533.4	517.5	506.5	499.5	496.5
599.1	22.5°	597.6	594.2	599.8	595.3	556.1	521.5	499.5	480.4	469.8	465.6
654.9	25°	644.7	640.7	639.2	611.6	548.4	502.7	466.8	443.7	434.4	432.1
735.2	27.5°	715.7	705.5	686.2	620.5	534.5	473.0	428.7	407.3	402.0	402.2
838.5	30°	810.3	789.9	742.6	622.0	511.6	431.0	389.7	374.4	371.9	372.9
925.2	32.5°	897.8	878.5	800.3	615.2	476.4	389.9	354.7	344.5	340.7	342.0
991.3	35°	966.5	961.2	853.7	605.7	433.1	351.3	323.3	314.6	307.2	305.5
1053.6	37.5°	1031.4	1029.3	893.8	592.3	390.3	323.9	298.1	286.6	275.8	269.9
1122.5	40°	1102.6	1100.5	920.1	571.8	352.3	300.2	275.4	260.3	247.0	236.2
1200.6	42.5°	1182.8	1170.2	932.6	542.3	320.1	280.1	256.9	236.6	219.0	209.0
1288.8	45°	1270.3	1242.1	932.4	504.8	293.0	261.6	237.2	208.4	192.1	182.7
1379.3	47.5°	1363.2	1310.8	920.9	463.2	266.7	241.3	206.7	184.7	173.8	168.1
1477.6	50°	1459.0	1375.0	901.4	415.5	239.8	218.1	187.6	172.6	164.3	159.0
1575.2	52.5°	1549.1	1433.3	877.9	361.5	212.4	195.7	179.1	167.5	158.8	152.9
1669.7	55°	1632.8	1483.6	844.6	306.1	190.2	180.6	175.1	165.4	155.4	148.4
1765.8	57.5°	1707.2	1516.2	787.2	254.2	174.3	170.2	170.9	161.8	150.3	144.4
1860.3	60°	1769.2	1540.2	702.1	206.1	161.3	160.1	164.3	155.0	141.6	134.8
1940.2	62.5°	1806.3	1539.8	597.8	168.8	150.3	150.7	155.6	146.5	132.9	126.6
1982.0	65°	1803.1	1502.0	483.4	144.4	139.7	140.1	146.5	137.2	125.7	121.9
1961.0	67.5°	1739.3	1410.0	370.8	128.5	128.0	130.0	137.4	130.8	121.3	120.8
1835.9	70°	1566.5	1219.0	267.1	115.8	116.0	118.7	128.5	126.8	118.9	119.8
1543.6	72.5°	1256.1	929.4	179.4	102.4	102.6	107.1	120.0	123.6	116.6	127.8
1095.2	75°	836.6	579.6	115.3	88.2	88.4	94.1	112.6	117.4	110.2	127.4
569.9	77.5°	402.0	260.5	83.5	74.2	74.2	79.5	97.3	105.2	93.9	99.0
183.2	80°	138.9	97.9	65.7	59.8	58.5	62.1	82.0	91.2	81.0	74.6
59.8	82.5°	54.7	50.9	52.8	46.4	42.2	44.5	63.8	75.3	59.6	53.8
33.7	85°	31.4	33.1	37.3	30.7	24.4	27.3	46.9	54.1	44.9	39.6
11.0	87.5°	8.5	11.7	17.2	15.9	11.0	11.7	22.3	29.9	25.9	19.9
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>
447.5
459.0
477.2
499.3
519.6
526.8
527.0
517.7
495.9
464.9
432.5
402.8
376.5
343.7
306.8
270.1
237.2
209.7
182.3
166.8
157.1
150.3
145.6
140.6
131.9
124.7
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119.6
129.5
128.5
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53.6
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