

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: P939516

Luminaire Tested: **GALN-SB2A-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4282 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

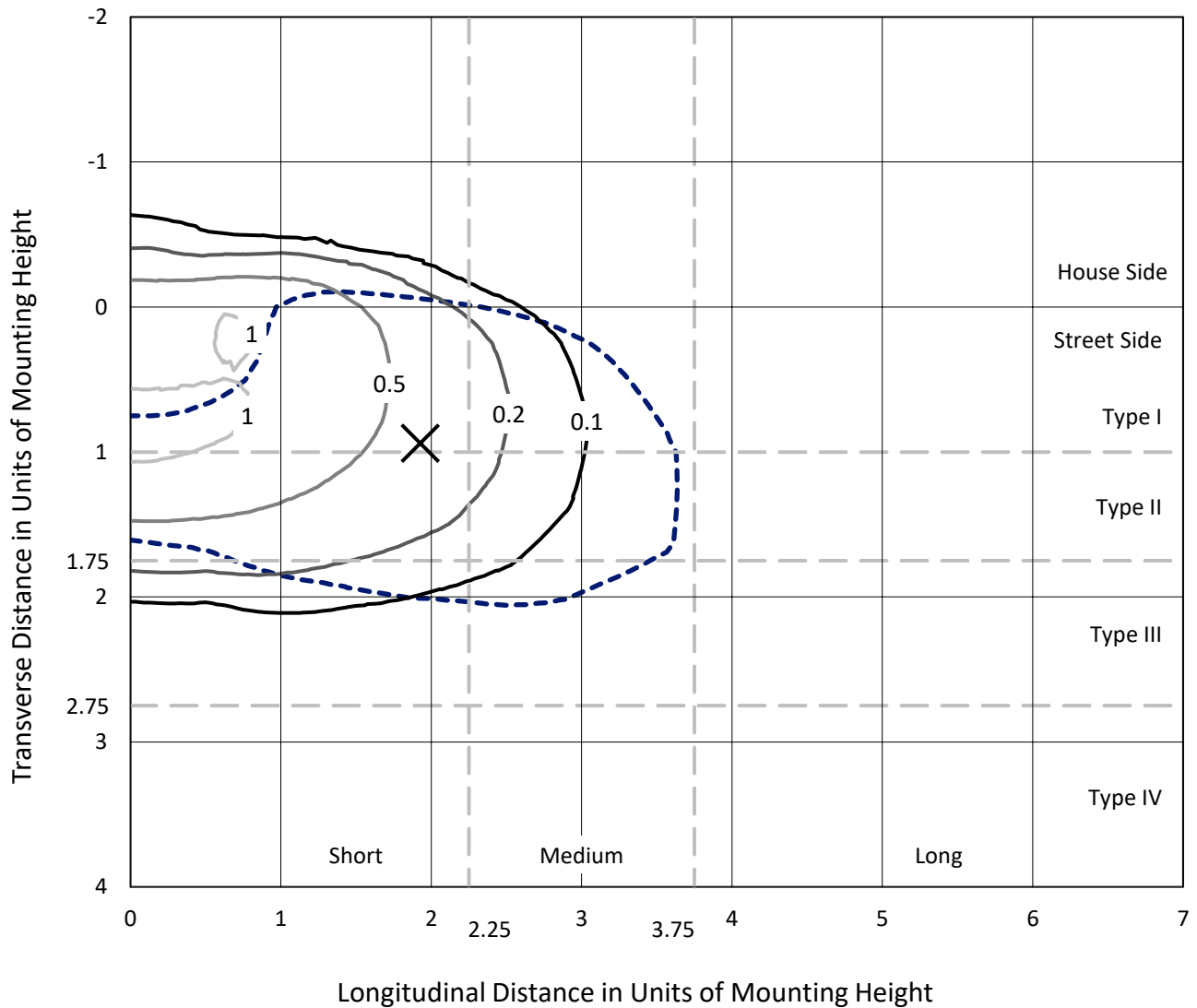
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

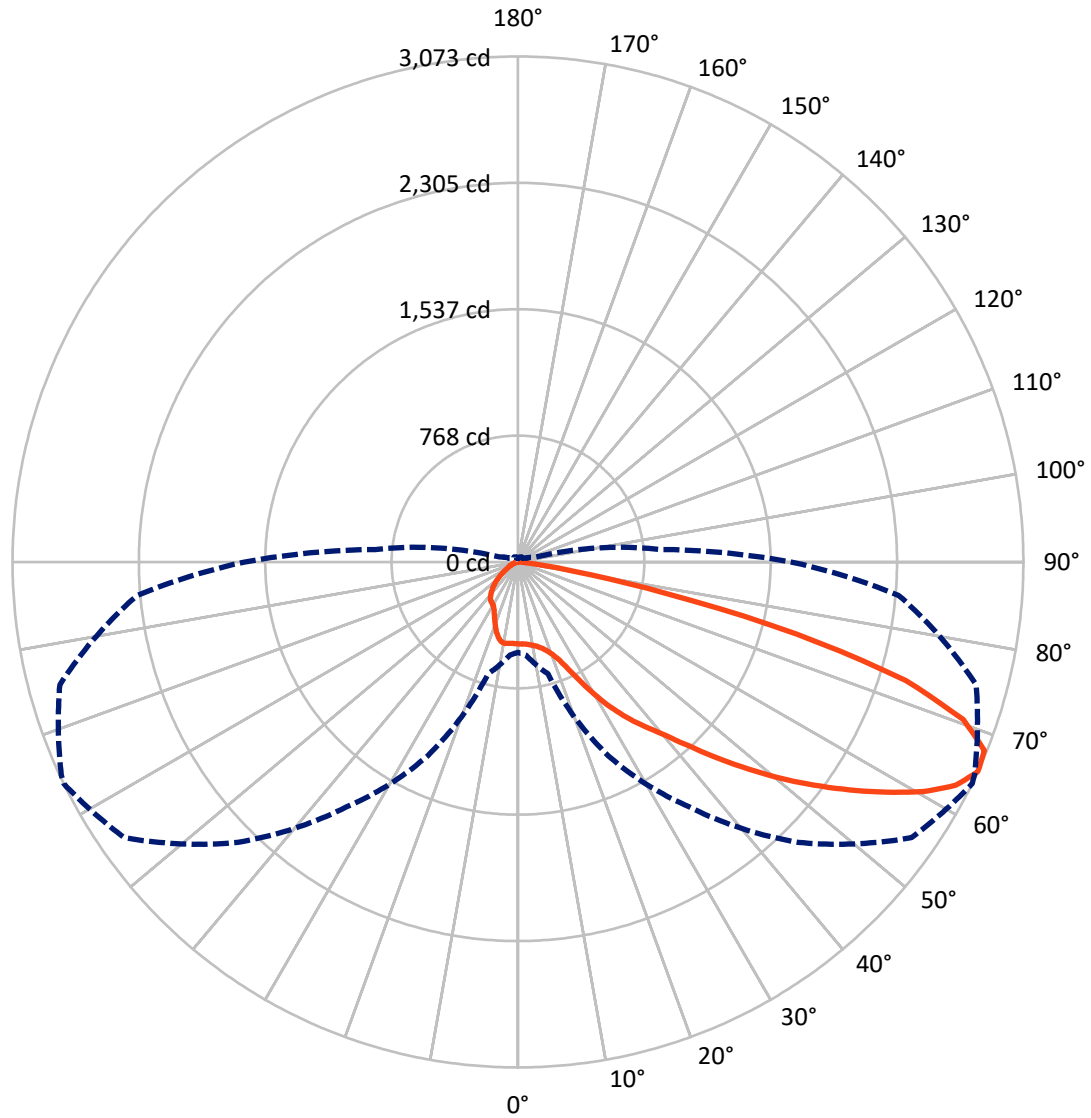
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	572.6	0.0	572.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3709.4	0.0	3709.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	4282.0	0.0	4282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.1
10°-20°	124.6	2.9
20°-30°	236.2	5.5
30°-40°	477.9	11.2
40°-50°	814.1	19.0
50°-60°	1107.1	25.9
60°-70°	1039.6	24.3
70°-80°	416.5	9.7
80°-90°	20.2	0.5
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°	4282.0	100.0
0°-180°	4282.0	100.0

Coefficient of Utilization



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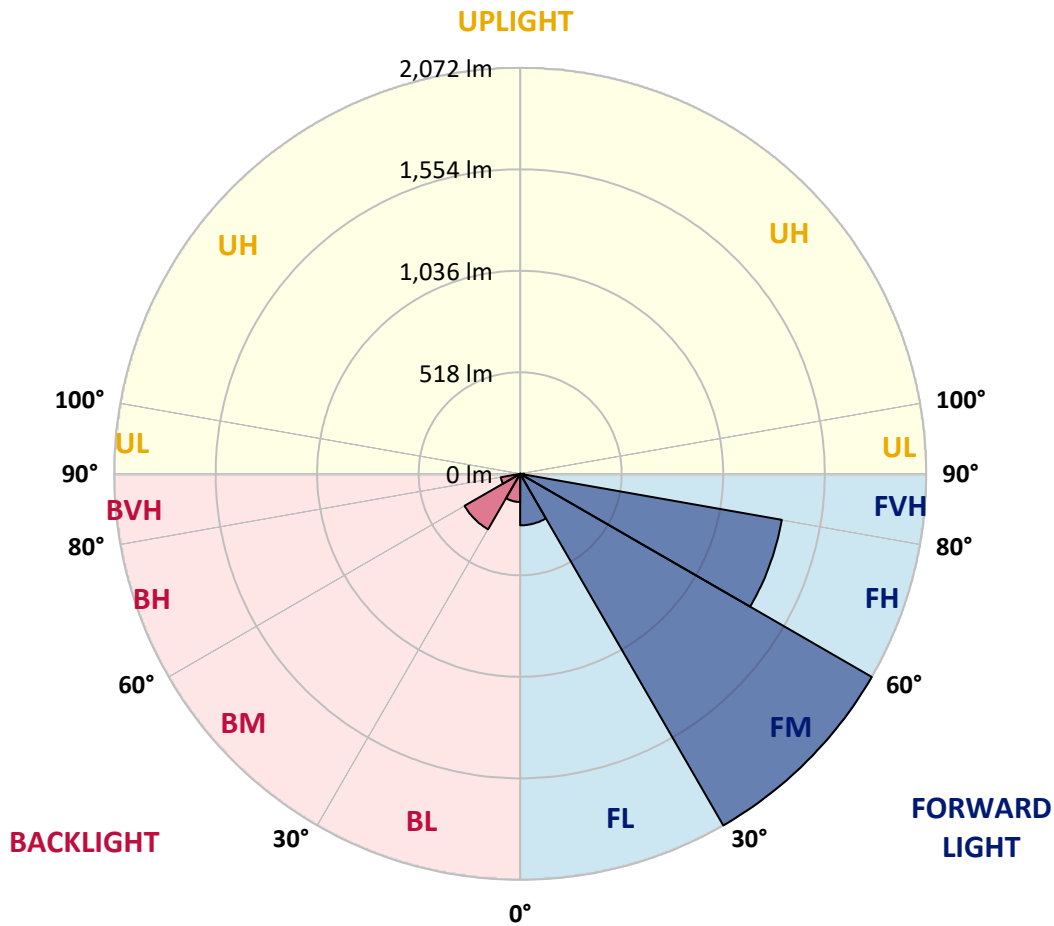
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.0	6.1			
FM (30°-60°)	2071.6	48.4			
FH (60°-80°)	1355.6	31.7			G1/1800
FVH (80°-90°)	19.2	0.4			G1/100
BL (0°-30°)	143.8	3.4	B1/500		
BM (30°-60°)	327.4	7.6	B1/1000		
BH (60°-80°)	100.5	2.3	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	496.3	499.8	498.9	498.0	497.8	498.3	498.6	498.3	498.3	498.3
5°	486.8	489.7	489.7	491.7	494.6	498.0	500.6	501.2	501.8	502.6
7.5°	468.8	471.1	472.8	479.4	486.6	495.7	503.5	507.5	508.1	511.2
10°	456.4	459.3	462.2	469.0	479.4	493.2	506.4	516.1	517.6	525.0
12.5°	455.8	458.7	462.4	469.9	482.0	496.6	512.7	526.7	529.3	540.2
15°	461.9	465.3	468.8	477.9	490.9	508.7	525.9	543.4	546.0	561.5
17.5°	474.2	478.8	481.4	490.6	504.4	524.2	546.8	566.9	569.2	587.3
20°	498.6	504.1	504.9	512.4	525.9	547.1	574.1	599.1	602.0	622.6
22.5°	549.1	556.9	550.0	553.7	565.8	587.0	616.3	647.9	651.9	675.4
25°	638.1	649.0	631.2	624.9	630.1	652.2	688.9	728.8	733.4	752.4
27.5°	812.9	798.9	771.9	745.5	730.0	742.6	783.9	833.3	839.1	857.4
30°	1005.0	992.6	956.2	897.6	860.9	858.9	897.0	952.2	958.8	976.3
32.5°	1197.3	1185.5	1145.9	1073.9	1010.1	978.6	1005.0	1066.1	1069.6	1080.8
35°	1386.5	1374.4	1334.8	1261.0	1182.7	1110.9	1105.7	1174.6	1175.8	1187.5
37.5°	1576.8	1566.7	1524.6	1452.2	1375.0	1276.0	1228.0	1277.4	1278.8	1290.3
40°	1712.6	1716.9	1687.9	1631.9	1565.6	1457.4	1365.2	1386.8	1378.2	1397.4
42.5°	1829.1	1837.7	1812.5	1784.3	1745.9	1650.6	1535.2	1531.4	1517.7	1528.0
45°	1929.9	1937.0	1914.4	1907.8	1906.9	1840.0	1720.9	1698.5	1679.3	1677.3
47.5°	1966.9	1980.7	1990.4	2012.5	2055.6	2027.5	1912.9	1878.2	1856.7	1840.9
50°	1981.0	1995.6	2028.9	2093.2	2195.1	2207.2	2104.1	2065.1	2038.7	2010.0
52.5°	1962.0	1988.1	2032.9	2141.1	2289.0	2351.3	2287.5	2253.4	2223.2	2176.5
55°	1850.4	1876.5	1968.1	2140.6	2335.8	2452.3	2460.9	2445.7	2411.8	2338.1
57.5°	1615.0	1653.7	1798.7	2067.7	2334.9	2539.3	2630.9	2641.8	2603.9	2498.2
60°	1288.9	1341.4	1518.2	1906.0	2262.9	2586.4	2779.8	2834.4	2794.2	2656.1
62.5°	899.3	960.2	1127.6	1652.9	2098.1	2552.5	2888.6	2989.4	2959.0	2797.4
65°	548.6	568.1	703.0	1300.6	1817.9	2410.7	2922.2	3073.2	3063.2	2883.8
67.5°	365.4	381.8	420.5	891.9	1411.2	2127.4	2841.8	3058.6	3061.4	2869.7
70°	220.2	234.2	259.5	518.7	914.6	1683.9	2593.0	2872.0	2888.6	2681.7
72.5°	90.7	100.2	123.1	235.1	473.6	1068.7	2064.8	2465.8	2504.6	2254.8
75°	51.4	56.3	72.3	118.0	205.5	498.0	1250.7	1750.5	1807.6	1554.1
77.5°	34.2	36.5	46.8	76.4	115.7	169.9	534.5	912.0	1021.1	848.8
80°	23.0	25.0	32.2	51.1	75.2	72.9	170.2	337.9	415.7	291.6
82.5°	15.5	15.8	23.0	33.6	47.7	35.3	50.2	105.1	132.0	84.4
85°	8.9	8.6	16.9	19.5	21.2	14.6	15.2	31.6	41.3	35.6
87.5°	1.1	1.7	6.6	5.2	2.9	3.2	3.2	5.5	8.0	8.6
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°
498.0	0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
498.6	2.5°	498.6	498.3	497.5	496.6	494.6	493.4	494.0	493.4	493.2	493.4
502.3	5°	502.3	501.5	499.2	496.3	492.3	487.4	484.3	479.7	475.4	472.8
512.4	7.5°	512.4	511.5	508.4	500.3	487.4	467.0	448.4	432.0	419.7	412.5
528.5	10°	528.5	527.0	522.2	504.4	470.5	426.0	389.0	358.2	338.2	328.7
547.4	12.5°	547.4	545.7	537.1	500.6	438.3	368.9	317.8	283.6	265.0	256.6
569.2	15°	569.8	567.5	550.6	482.8	391.5	305.7	258.9	233.4	221.3	213.9
597.1	17.5°	597.6	593.6	560.6	456.1	340.7	257.5	222.8	203.5	192.9	185.7
633.5	20°	633.8	627.2	568.7	424.3	293.9	227.1	198.4	182.3	174.2	167.9
685.2	22.5°	684.3	674.9	578.4	389.8	260.9	206.1	180.3	168.5	161.9	154.7
757.3	25°	746.9	735.7	590.5	358.0	238.3	188.0	167.1	157.3	149.6	141.2
851.7	27.5°	834.5	814.4	604.8	331.8	218.7	172.5	155.0	144.1	135.2	128.3
958.8	30°	932.1	899.1	617.5	316.0	200.9	158.2	139.2	128.3	120.0	115.1
1054.9	32.5°	1024.5	979.7	625.8	309.2	184.9	141.8	122.0	110.2	103.9	102.5
1149.1	35°	1111.8	1052.6	624.9	302.6	170.5	125.4	105.1	93.0	88.1	89.0
1250.4	37.5°	1212.2	1130.4	618.9	292.2	158.7	110.5	90.4	79.8	75.5	75.8
1373.6	40°	1329.1	1220.3	615.2	272.7	145.8	96.7	78.4	69.8	66.6	65.4
1503.3	42.5°	1453.6	1307.3	615.7	250.6	129.7	84.4	70.0	62.9	60.0	59.1
1647.7	45°	1578.8	1390.2	616.6	227.6	112.8	74.9	64.0	58.0	56.3	55.1
1794.1	47.5°	1696.5	1460.8	600.5	202.9	96.2	67.7	59.1	55.1	53.7	52.2
1941.1	50°	1806.2	1507.9	561.8	174.2	83.0	62.0	55.4	52.5	51.1	49.7
2074.3	52.5°	1891.4	1515.4	497.8	144.7	73.8	57.7	53.1	50.5	48.8	47.4
2181.9	55°	1929.3	1468.6	406.8	117.1	66.6	54.0	50.8	48.2	46.2	44.8
2266.6	57.5°	1919.5	1370.1	317.2	94.2	59.7	50.2	47.9	46.2	43.9	41.6
2335.2	60°	1871.6	1238.4	239.1	78.4	53.4	46.2	44.8	43.3	40.2	36.7
2361.6	62.5°	1788.6	1072.7	170.5	64.9	46.5	41.6	41.0	39.9	35.3	29.0
2322.6	65°	1661.8	871.5	114.8	54.0	39.9	36.5	36.7	34.7	28.7	21.5
2179.6	67.5°	1476.3	637.3	73.5	44.2	33.3	30.4	30.7	29.6	24.4	18.4
1908.6	70°	1240.1	422.0	47.9	33.6	26.7	23.5	25.3	25.5	20.7	14.9
1464.8	72.5°	909.1	249.2	33.6	25.0	19.5	16.4	20.7	21.2	16.6	11.2
881.3	75°	518.1	118.3	25.3	18.1	12.1	11.5	16.1	16.1	11.5	7.5
381.5	77.5°	217.6	49.4	17.8	11.8	6.9	6.6	10.9	10.0	5.7	3.4
93.0	80°	62.9	22.1	9.5	5.7	2.9	2.6	4.3	3.2	1.4	0.6
35.3	82.5°	24.7	9.8	3.7	2.3	1.1	1.1	0.6	0.0	0.0	0.0
20.1	85°	14.6	4.0	1.7	0.9	0.3	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	3.7	0.9	0.6	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

180°
498.0
494.6
473.4
412.8
327.8
255.8
214.1
185.2
166.8
153.6
140.4
126.9
114.2
103.3
89.0
76.9
65.2
58.8
55.1
52.2
49.7
47.1
44.5
41.3
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28.4
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