

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: P938966

Luminaire Tested: **GALN-SB1B-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938966
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-SB1B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3970 lumens
Efficiency: N/A
Efficacy: 99.7 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

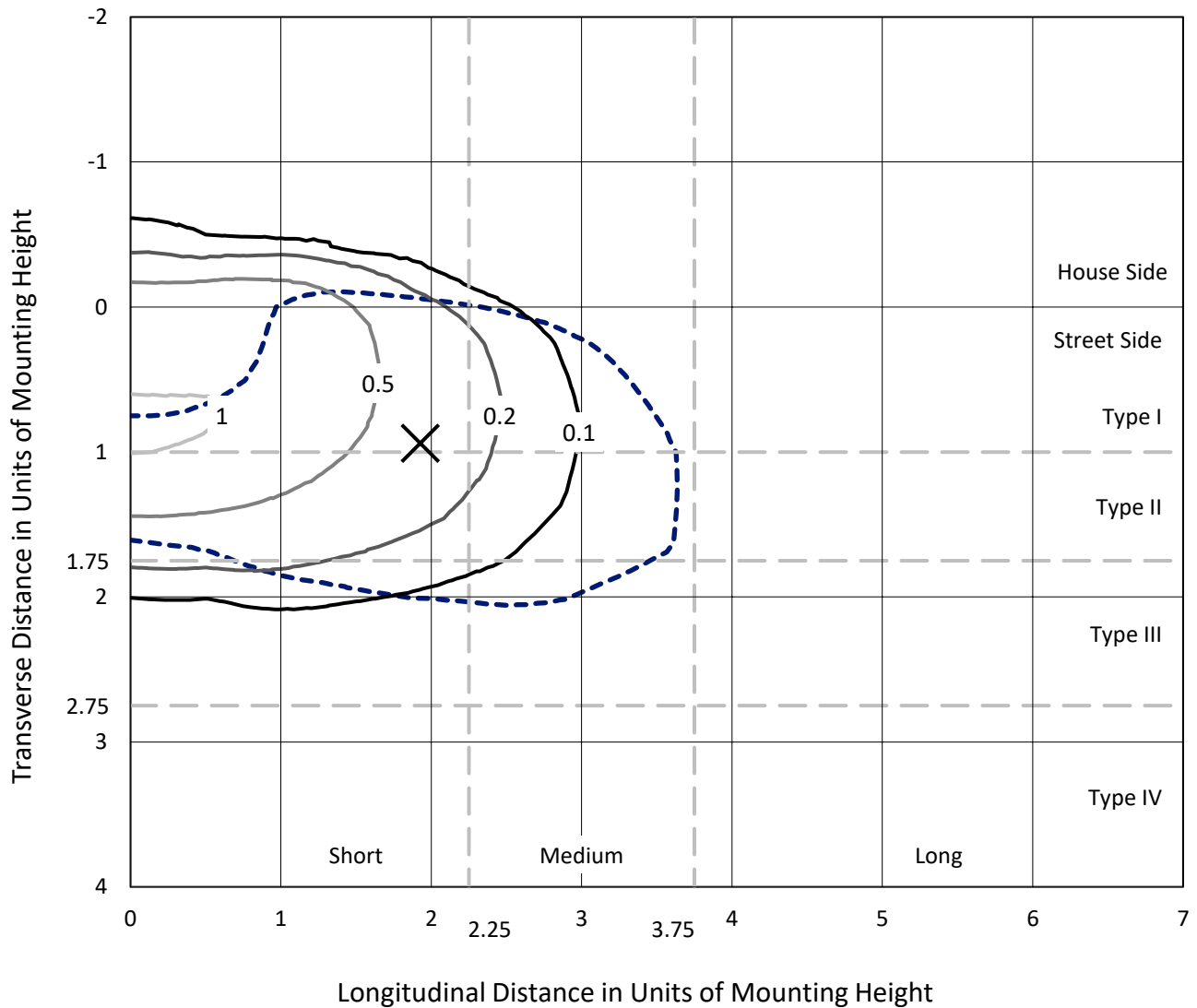
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

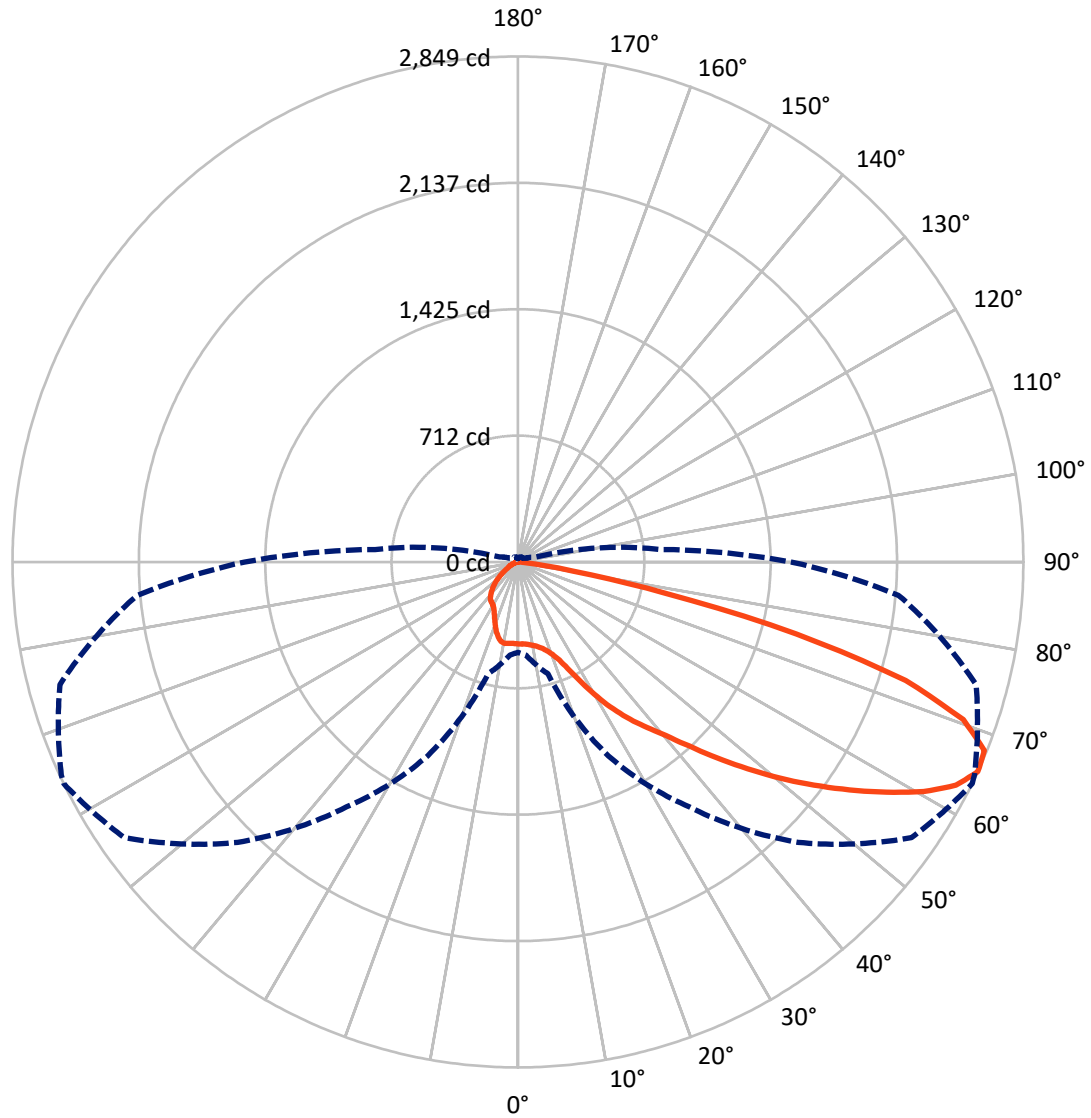
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	530.9	0.0	530.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3439.1	0.0	3439.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	3970.0	0.0	3970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.1
10°-20°	115.5	2.9
20°-30°	219.0	5.5
30°-40°	443.1	11.2
40°-50°	754.7	19.0
50°-60°	1026.4	25.9
60°-70°	963.8	24.3
70°-80°	386.2	9.7
80°-90°	18.7	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°	3970.0	100.0
0°-180°	3970.0	100.0

Coefficient of Utilization



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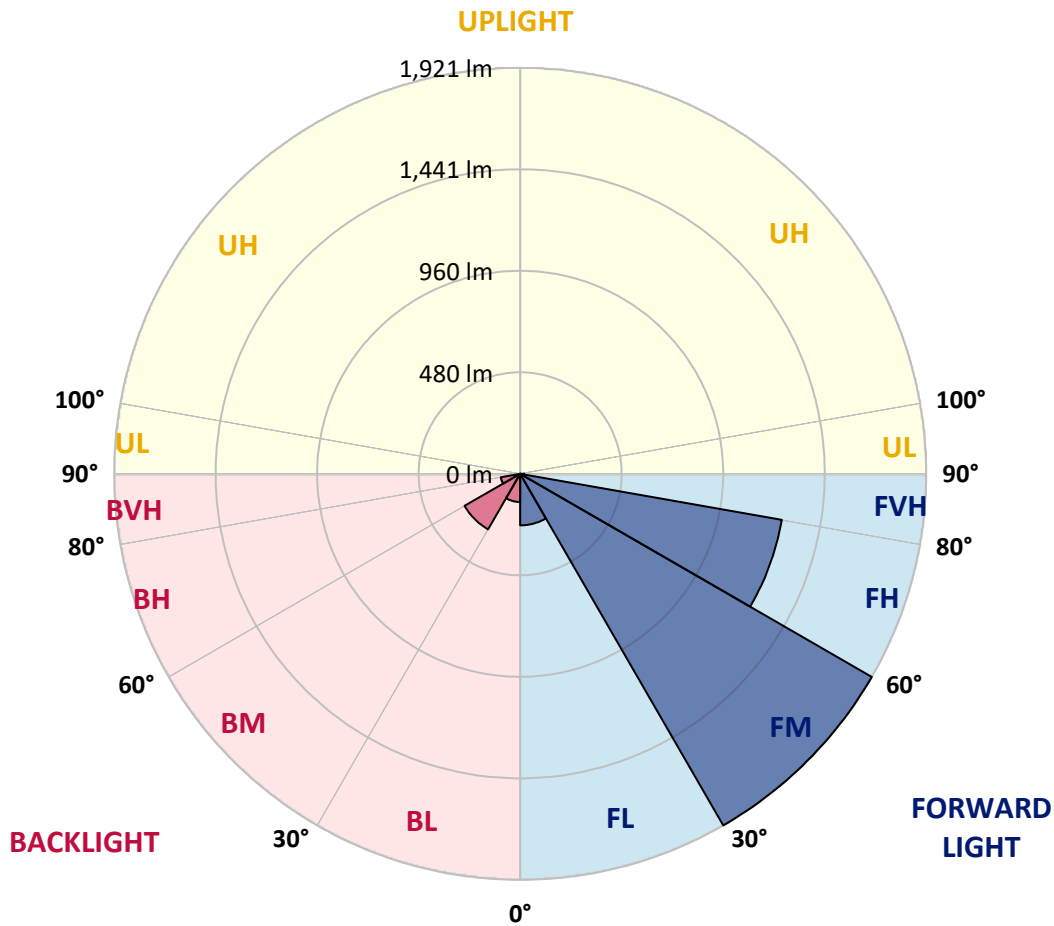
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.8	6.1			
FM (30°-60°)	1920.7	48.4			
FH (60°-80°)	1256.8	31.7			G1/1800
FVH (80°-90°)	17.8	0.4			G1/100
BL (0°-30°)	133.3	3.4	B1/500		
BM (30°-60°)	303.5	7.6	B1/1000		
BH (60°-80°)	93.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	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°	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8
2.5°	460.2	463.3	462.6	461.8	461.5	462.0	462.3	462.0	462.0	462.0
5°	451.4	454.0	454.0	455.9	458.6	461.8	464.1	464.7	465.2	466.0
7.5°	434.6	436.7	438.3	444.5	451.1	459.6	466.8	470.5	471.1	474.0
10°	423.2	425.8	428.5	434.9	444.5	457.2	469.5	478.5	479.8	486.8
12.5°	422.6	425.3	428.8	435.7	446.8	460.4	475.3	488.4	490.8	500.9
15°	428.2	431.4	434.6	443.1	455.1	471.6	487.6	503.8	506.2	520.6
17.5°	439.7	443.9	446.3	454.8	467.6	486.0	507.0	525.6	527.8	544.5
20°	462.3	467.3	468.1	475.1	487.6	507.3	532.3	555.4	558.1	577.3
22.5°	509.1	516.3	509.9	513.4	524.6	544.3	571.4	600.7	604.4	626.2
25°	591.6	601.7	585.2	579.4	584.2	604.7	638.7	675.7	680.0	697.6
27.5°	753.7	740.7	715.6	691.2	676.8	688.5	726.8	772.6	777.9	795.0
30°	931.8	920.3	886.5	832.2	798.2	796.3	831.7	882.8	888.9	905.1
32.5°	1110.1	1099.2	1062.4	995.6	936.5	907.3	931.8	988.4	991.6	1002.0
35°	1285.5	1274.3	1237.5	1169.2	1096.5	1030.0	1025.2	1089.0	1090.1	1101.0
37.5°	1461.9	1452.6	1413.5	1346.4	1274.8	1183.0	1138.5	1184.3	1185.7	1196.3
40°	1587.8	1591.8	1564.9	1513.0	1451.5	1351.2	1265.8	1285.7	1277.7	1295.6
42.5°	1695.8	1703.8	1680.4	1654.3	1618.7	1530.3	1423.3	1419.9	1407.1	1416.7
45°	1789.3	1795.9	1774.9	1768.8	1768.0	1706.0	1595.5	1574.7	1556.9	1555.1
47.5°	1823.6	1836.4	1845.4	1865.9	1905.8	1879.7	1773.6	1741.4	1721.4	1706.8
50°	1836.6	1850.2	1881.1	1940.7	2035.2	2046.3	1950.8	1914.6	1890.1	1863.5
52.5°	1819.1	1843.3	1884.8	1985.1	2122.2	2179.9	2120.9	2089.2	2061.3	2017.9
55°	1715.5	1739.8	1824.7	1984.6	2165.6	2273.6	2281.6	2267.5	2236.1	2167.7
57.5°	1497.3	1533.2	1667.6	1917.0	2164.8	2354.3	2439.2	2449.3	2414.2	2316.2
60°	1195.0	1243.7	1407.6	1767.2	2098.0	2397.9	2577.3	2627.9	2590.6	2462.6
62.5°	833.8	890.2	1045.4	1532.4	1945.2	2366.5	2678.2	2771.6	2743.4	2593.5
65°	508.6	526.7	651.8	1205.9	1685.5	2235.0	2709.3	2849.3	2840.0	2673.6
67.5°	338.8	354.0	389.9	826.9	1308.3	1972.4	2634.8	2835.7	2838.4	2660.6
70°	204.1	217.2	240.6	480.9	847.9	1561.2	2404.0	2662.7	2678.2	2486.3
72.5°	84.1	92.9	114.2	218.0	439.1	990.8	1914.3	2286.1	2322.1	2090.5
75°	47.6	52.2	67.1	109.4	190.6	461.8	1159.6	1622.9	1675.9	1440.9
77.5°	31.7	33.8	43.4	70.8	107.3	157.6	495.6	845.5	946.7	787.0
80°	21.3	23.2	29.8	47.4	69.7	67.6	157.8	313.2	385.4	270.4
82.5°	14.4	14.6	21.3	31.1	44.2	32.7	46.6	97.4	122.4	78.2
85°	8.3	8.0	15.7	18.1	19.7	13.6	14.1	29.3	38.3	33.0
87.5°	1.1	1.6	6.1	4.8	2.7	2.9	2.9	5.1	7.5	8.0
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°
461.8	0°	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8	461.8
462.3	2.5°	462.3	462.0	461.2	460.4	458.6	457.5	458.0	457.5	457.2	457.5
465.7	5°	465.7	464.9	462.8	460.2	456.4	451.9	449.0	444.7	440.7	438.3
475.1	7.5°	475.1	474.3	471.3	463.9	451.9	433.0	415.7	400.5	389.1	382.4
490.0	10°	490.0	488.6	484.1	467.6	436.2	395.0	360.6	332.1	313.5	304.7
507.5	12.5°	507.5	505.9	497.9	464.1	406.4	342.0	294.6	262.9	245.6	237.9
527.8	15°	528.3	526.2	510.5	447.6	363.0	283.4	240.1	216.4	205.2	198.3
553.6	17.5°	554.1	550.4	519.8	422.9	315.9	238.7	206.5	188.7	178.8	172.2
587.4	20°	587.6	581.5	527.2	393.4	272.5	210.5	183.9	169.0	161.5	155.7
635.3	22.5°	634.5	625.7	536.3	361.4	241.9	191.1	167.1	156.2	150.1	143.4
702.1	25°	692.5	682.1	547.4	331.9	220.9	174.3	154.9	145.8	138.7	130.9
789.6	27.5°	773.7	755.0	560.8	307.7	202.8	159.9	143.7	133.6	125.4	119.0
888.9	30°	864.2	833.5	572.5	293.0	186.3	146.6	129.1	119.0	111.2	106.7
978.1	32.5°	949.9	908.3	580.2	286.6	171.4	131.5	113.1	102.2	96.3	95.0
1065.4	35°	1030.8	975.9	579.4	280.5	158.1	116.3	97.4	86.2	81.7	82.5
1159.3	37.5°	1123.9	1048.1	573.8	270.9	147.2	102.5	83.8	74.0	70.0	70.3
1273.5	40°	1232.2	1131.4	570.3	252.8	135.2	89.7	72.7	64.7	61.7	60.7
1393.8	42.5°	1347.7	1212.0	570.9	232.3	120.3	78.2	64.9	58.3	55.6	54.8
1527.6	45°	1463.8	1288.9	571.7	211.0	104.6	69.5	59.3	53.8	52.2	51.1
1663.4	47.5°	1572.9	1354.4	556.8	188.2	89.2	62.8	54.8	51.1	49.8	48.4
1799.6	50°	1674.6	1398.0	520.8	161.5	76.9	57.5	51.4	48.7	47.4	46.0
1923.1	52.5°	1753.6	1405.0	461.5	134.1	68.4	53.5	49.2	46.8	45.2	43.9
2022.9	55°	1788.7	1361.6	377.1	108.6	61.7	50.0	47.1	44.7	42.8	41.5
2101.4	57.5°	1779.7	1270.3	294.1	87.3	55.4	46.6	44.4	42.8	40.7	38.6
2165.0	60°	1735.2	1148.1	221.7	72.7	49.5	42.8	41.5	40.2	37.3	34.1
2189.5	62.5°	1658.3	994.6	158.1	60.1	43.1	38.6	38.1	37.0	32.7	26.9
2153.3	65°	1540.7	808.0	106.5	50.0	37.0	33.8	34.1	32.2	26.6	20.0
2020.8	67.5°	1368.8	590.8	68.1	41.0	30.9	28.2	28.5	27.4	22.6	17.0
1769.6	70°	1149.7	391.2	44.4	31.1	24.8	21.8	23.4	23.7	19.2	13.8
1358.1	72.5°	842.9	231.0	31.1	23.2	18.1	15.2	19.2	19.7	15.4	10.4
817.0	75°	480.4	109.6	23.4	16.8	11.2	10.6	14.9	14.9	10.6	6.9
353.7	77.5°	201.7	45.8	16.5	10.9	6.4	6.1	10.1	9.3	5.3	3.2
86.2	80°	58.3	20.5	8.8	5.3	2.7	2.4	4.0	2.9	1.3	0.5
32.7	82.5°	22.9	9.0	3.5	2.1	1.1	1.1	0.5	0.0	0.0	0.0
18.6	85°	13.6	3.7	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0
4.0	87.5°	3.5	0.8	0.5	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>
461.8
458.6
438.9
382.7
303.9
237.1
198.5
171.7
154.6
142.4
130.1
117.6
105.9
95.8
82.5
71.3
60.4
54.6
51.1
48.4
46.0
43.6
41.3
38.3
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26.3
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