

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: P939346

Luminaire Tested: **GALN-SB1D-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939346
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-SB1D-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4859 lumens
Efficiency: N/A
Efficacy: 61.0 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

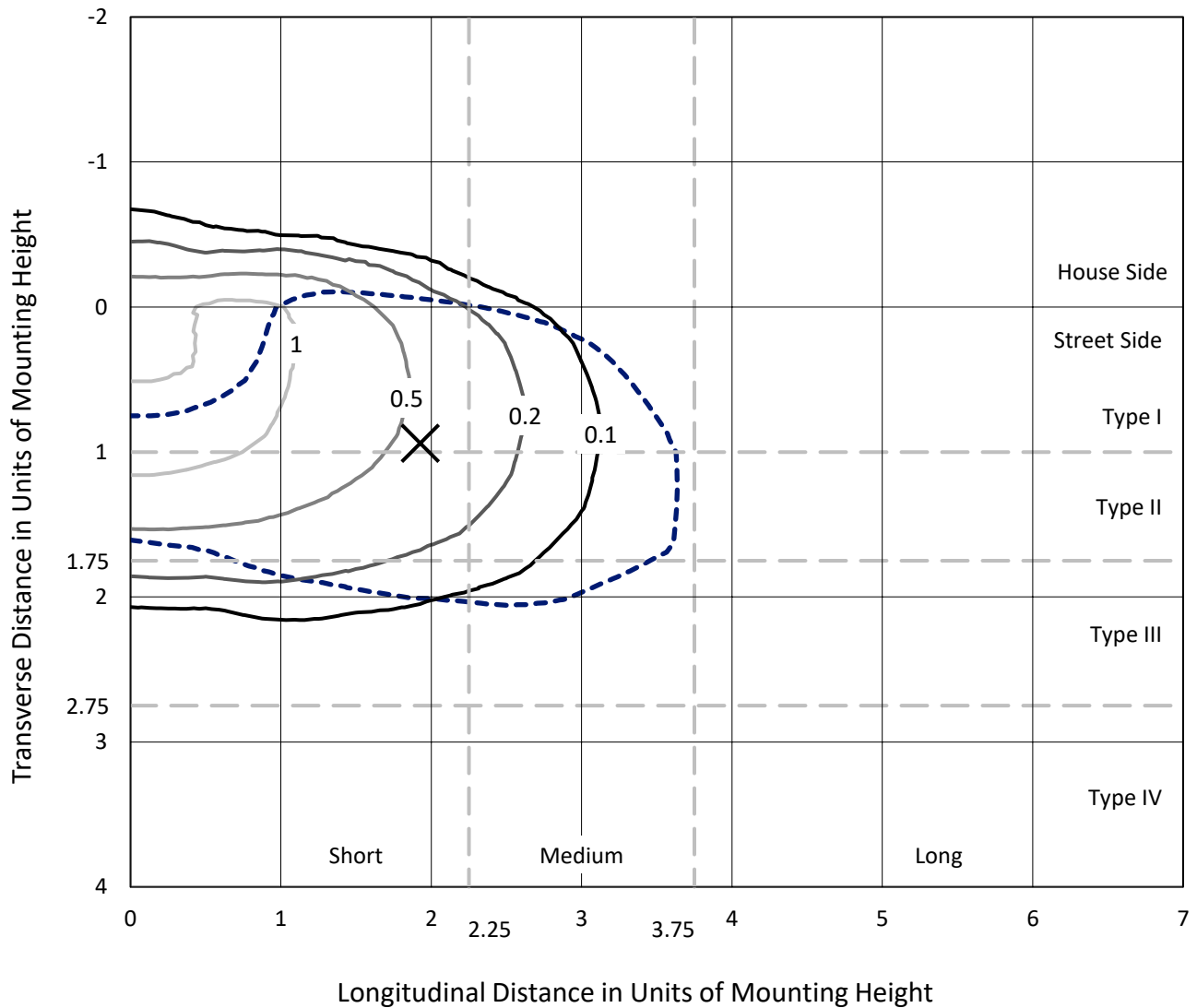
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB1D-927-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

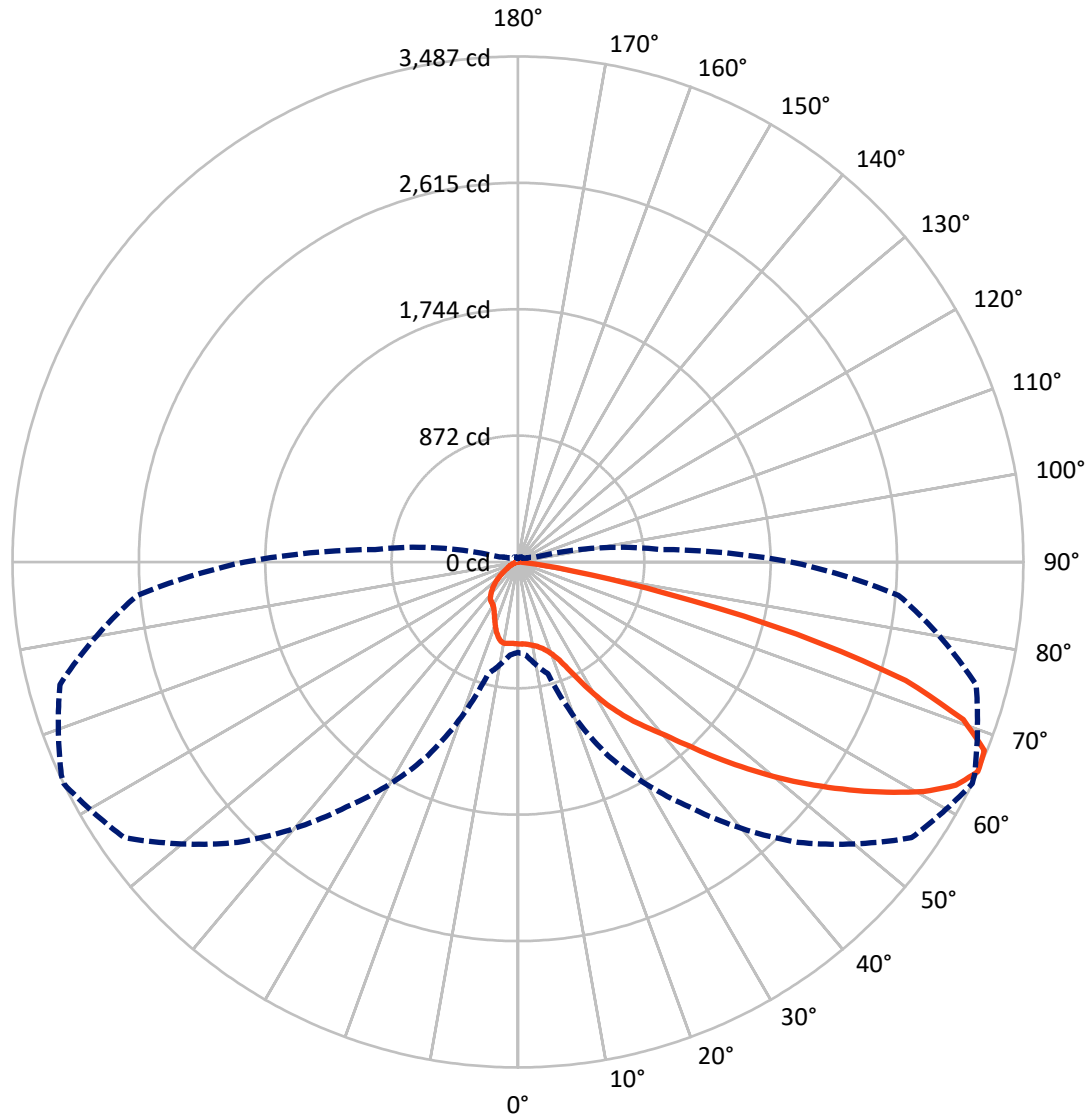
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

REPORT NUMBER: P939346
CATALOG NUMBER: GALN-SB1D-927-U-T3-HSS

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	649.8	0.0	649.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4209.2	0.0	4209.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	4859.0	0.0	4859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.1
10°-20°	141.4	2.9
20°-30°	268.0	5.5
30°-40°	542.3	11.2
40°-50°	923.8	19.0
50°-60°	1256.2	25.9
60°-70°	1179.7	24.3
70°-80°	472.6	9.7
80°-90°	22.9	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°	4859.0	100.0
0°-180°	4859.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939346

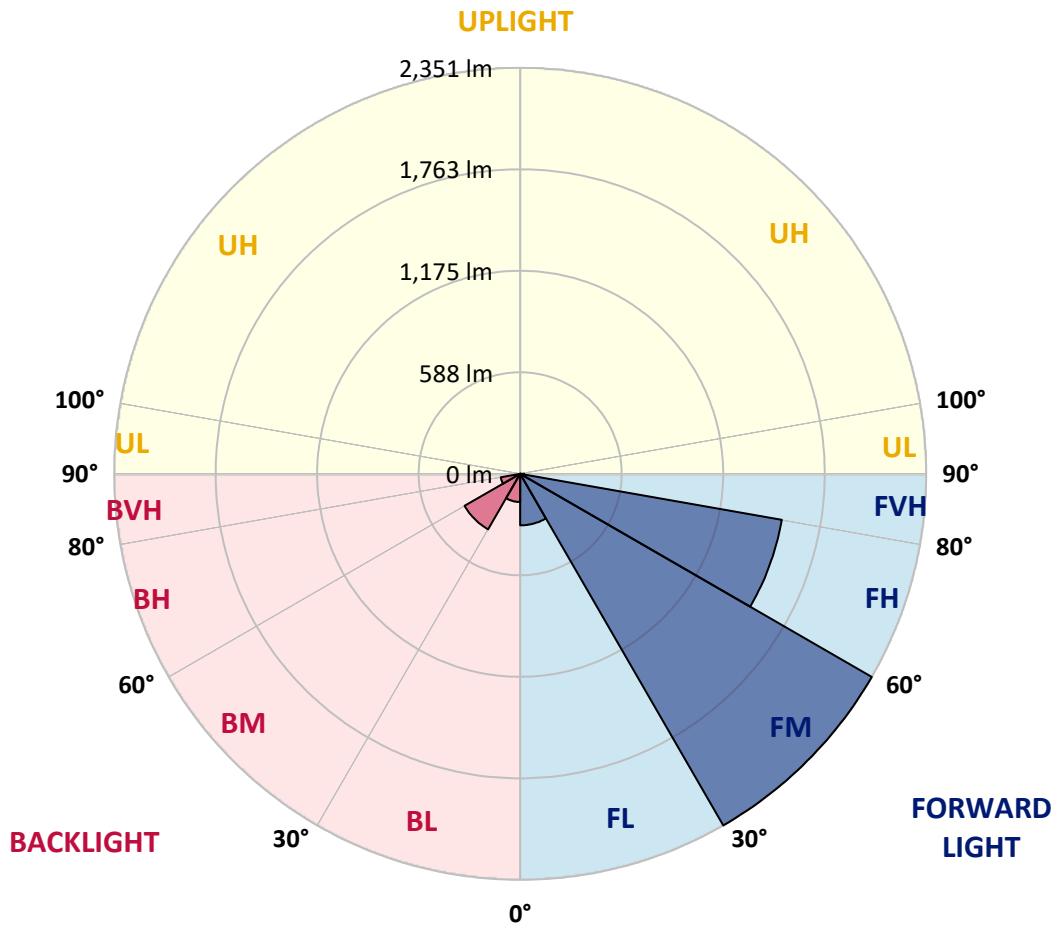
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.4	6.1			
FM (30°-60°)	2350.8	48.4			
FH (60°-80°)	1538.2	31.7			G1/1800
FVH (80°-90°)	21.8	0.4			G1/100
BL (0°-30°)	163.1	3.4	B1/500		
BM (30°-60°)	371.5	7.6	B1/1000		
BH (60°-80°)	114.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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



REPORT NUMBER: P939346

CATALOG NUMBER: GALN-SB1D-927-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2
2.5°	563.2	567.1	566.1	565.2	564.8	565.5	565.8	565.5	565.5	565.5
5°	552.4	555.7	555.7	558.0	561.2	565.2	568.1	568.7	569.4	570.4
7.5°	531.9	534.5	536.5	544.0	552.1	562.5	571.3	575.9	576.6	580.1
10°	517.9	521.2	524.4	532.3	544.0	559.6	574.6	585.7	587.3	595.8
12.5°	517.3	520.5	524.8	533.2	546.9	563.5	581.8	597.7	600.7	613.0
15°	524.1	528.0	531.9	542.4	557.0	577.2	596.7	616.6	619.6	637.1
17.5°	538.1	543.3	546.3	556.7	572.3	594.8	620.5	643.3	645.9	666.5
20°	565.8	572.0	573.0	581.4	596.7	620.9	651.5	679.8	683.1	706.5
22.5°	623.1	631.9	624.1	628.3	642.0	666.1	699.4	735.2	739.7	766.5
25°	724.1	736.5	716.3	709.1	715.0	740.1	781.8	827.0	832.3	853.8
27.5°	922.5	906.5	875.9	845.9	828.3	842.7	889.6	945.6	952.1	973.0
30°	1140.4	1126.4	1085.0	1018.6	976.9	974.6	1017.9	1080.5	1088.0	1107.8
32.5°	1358.6	1345.3	1300.3	1218.6	1146.3	1110.4	1140.4	1209.8	1213.7	1226.4
35°	1573.3	1559.6	1514.7	1431.0	1342.0	1260.6	1254.7	1332.9	1334.2	1347.6
37.5°	1789.3	1777.9	1730.0	1647.9	1560.3	1447.9	1393.5	1449.5	1451.2	1464.2
40°	1943.3	1948.2	1915.3	1851.8	1776.6	1653.8	1549.2	1573.6	1563.9	1585.7
42.5°	2075.6	2085.4	2056.7	2024.8	1981.1	1873.0	1742.0	1737.8	1722.2	1733.9
45°	2189.9	2198.1	2172.3	2164.8	2163.9	2088.0	1952.8	1927.4	1905.6	1903.3
47.5°	2231.9	2247.6	2258.7	2283.7	2332.6	2300.7	2170.7	2131.3	2106.9	2088.9
50°	2247.9	2264.5	2302.3	2375.3	2490.9	2504.6	2387.6	2343.3	2313.4	2280.8
52.5°	2226.4	2256.0	2306.9	2429.7	2597.4	2668.1	2595.8	2557.0	2522.8	2469.7
55°	2099.7	2129.3	2233.2	2429.0	2650.5	2782.8	2792.5	2775.3	2736.8	2653.1
57.5°	1832.6	1876.6	2041.1	2346.3	2649.5	2881.5	2985.4	2997.7	2954.8	2834.9
60°	1462.6	1522.2	1722.8	2162.9	2567.8	2934.9	3154.4	3216.3	3170.7	3014.0
62.5°	1020.5	1089.6	1279.5	1875.6	2380.8	2896.4	3277.9	3392.2	3357.7	3174.3
65°	622.5	644.6	797.7	1475.9	2062.9	2735.5	3316.0	3487.3	3475.9	3272.3
67.5°	414.7	433.2	477.2	1012.1	1601.3	2414.0	3224.8	3470.7	3474.0	3256.4
70°	249.8	265.8	294.5	588.6	1037.8	1910.8	2942.4	3259.0	3277.9	3043.0
72.5°	102.9	113.7	139.7	266.8	537.5	1212.7	2343.0	2798.1	2842.0	2558.7
75°	58.3	63.8	82.1	133.9	233.2	565.2	1419.2	1986.3	2051.2	1763.5
77.5°	38.8	41.4	53.1	86.6	131.3	192.8	606.5	1034.9	1158.6	963.2
80°	26.1	28.3	36.5	58.0	85.3	82.7	193.2	383.4	471.7	330.9
82.5°	17.6	17.9	26.1	38.1	54.1	40.1	57.0	119.2	149.8	95.8
85°	10.1	9.8	19.2	22.2	24.1	16.6	17.3	35.8	46.9	40.4
87.5°	1.3	2.0	7.5	5.9	3.3	3.6	3.6	6.2	9.1	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939346
 CATALOG NUMBER: GALN-SB1D-927-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
565.2	0°	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2	565.2
565.8	2.5°	565.8	565.5	564.5	563.5	561.2	559.9	560.6	559.9	559.6	559.9
570.0	5°	570.0	569.1	566.5	563.2	558.6	553.1	549.5	544.3	539.4	536.5
581.4	7.5°	581.4	580.5	576.9	567.8	553.1	530.0	508.8	490.2	476.2	468.1
599.7	10°	599.7	598.1	592.5	572.3	533.9	483.4	441.4	406.5	383.7	373.0
621.2	12.5°	621.2	619.2	609.5	568.1	497.4	418.6	360.6	321.8	300.7	291.2
645.9	15°	646.6	644.0	624.8	547.9	444.3	346.9	293.8	264.8	251.1	242.7
677.5	17.5°	678.2	673.6	636.2	517.6	386.6	292.2	252.8	230.9	218.9	210.8
718.9	20°	719.2	711.7	645.3	481.4	333.6	257.7	225.1	206.8	197.7	190.6
777.5	22.5°	776.6	765.8	656.4	442.3	296.1	233.9	204.6	191.2	183.7	175.6
859.3	25°	847.6	834.9	670.0	406.2	270.4	213.4	189.6	178.5	169.7	160.3
966.5	27.5°	946.9	924.1	686.3	376.6	248.2	195.8	175.9	163.5	153.4	145.6
1088.0	30°	1057.7	1020.2	700.7	358.6	228.0	179.5	158.0	145.6	136.2	130.6
1197.1	32.5°	1162.6	1111.7	710.1	350.8	209.8	160.9	138.4	125.1	117.9	116.3
1303.9	35°	1261.6	1194.5	709.1	343.3	193.5	142.3	119.2	105.5	100.0	101.0
1418.9	37.5°	1375.6	1282.7	702.3	331.6	180.1	125.4	102.6	90.6	85.7	86.0
1558.6	40°	1508.2	1384.7	698.1	309.4	165.5	109.8	88.9	79.2	75.6	74.3
1705.9	42.5°	1649.5	1483.4	698.7	284.4	147.2	95.8	79.5	71.3	68.1	67.1
1869.7	45°	1791.5	1577.5	699.7	258.3	128.0	85.0	72.6	65.8	63.8	62.5
2035.9	47.5°	1925.1	1657.7	681.4	230.3	109.1	76.9	67.1	62.5	60.9	59.3
2202.6	50°	2049.5	1711.1	637.5	197.7	94.1	70.4	62.9	59.6	58.0	56.4
2353.8	52.5°	2146.3	1719.6	564.8	164.2	83.7	65.5	60.3	57.3	55.4	53.7
2475.9	55°	2189.3	1666.5	461.6	132.9	75.6	61.2	57.7	54.7	52.4	50.8
2572.0	57.5°	2178.2	1554.7	359.9	106.8	67.8	57.0	54.4	52.4	49.8	47.2
2649.9	60°	2123.8	1405.2	271.3	88.9	60.6	52.4	50.8	49.2	45.6	41.7
2679.8	62.5°	2029.7	1217.3	193.5	73.6	52.8	47.2	46.6	45.3	40.1	32.9
2635.5	65°	1885.7	988.9	130.3	61.2	45.3	41.4	41.7	39.4	32.6	24.4
2473.3	67.5°	1675.3	723.1	83.4	50.2	37.8	34.5	34.9	33.6	27.7	20.8
2165.8	70°	1407.2	478.8	54.4	38.1	30.3	26.7	28.7	29.0	23.5	16.9
1662.2	72.5°	1031.6	282.7	38.1	28.3	22.2	18.6	23.5	24.1	18.9	12.7
1000.0	75°	588.0	134.2	28.7	20.5	13.7	13.0	18.2	18.2	13.0	8.5
432.9	77.5°	246.9	56.0	20.2	13.4	7.8	7.5	12.4	11.4	6.5	3.9
105.5	80°	71.3	25.1	10.7	6.5	3.3	2.9	4.9	3.6	1.6	0.7
40.1	82.5°	28.0	11.1	4.2	2.6	1.3	1.3	0.7	0.0	0.0	0.0
22.8	85°	16.6	4.6	2.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
4.9	87.5°	4.2	1.0	0.7	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°
565.2
561.2
537.1
468.4
372.0
290.2
243.0
210.1
189.3
174.3
159.3
144.0
129.6
117.3
101.0
87.3
73.9
66.8
62.5
59.3
56.4
53.4
50.5
46.9
41.0
32.2
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