

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: P939136

Luminaire Tested: **GALN-SB1C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939136
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-SB1C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5279 lumens
Efficiency: N/A
Efficacy: 97.0 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

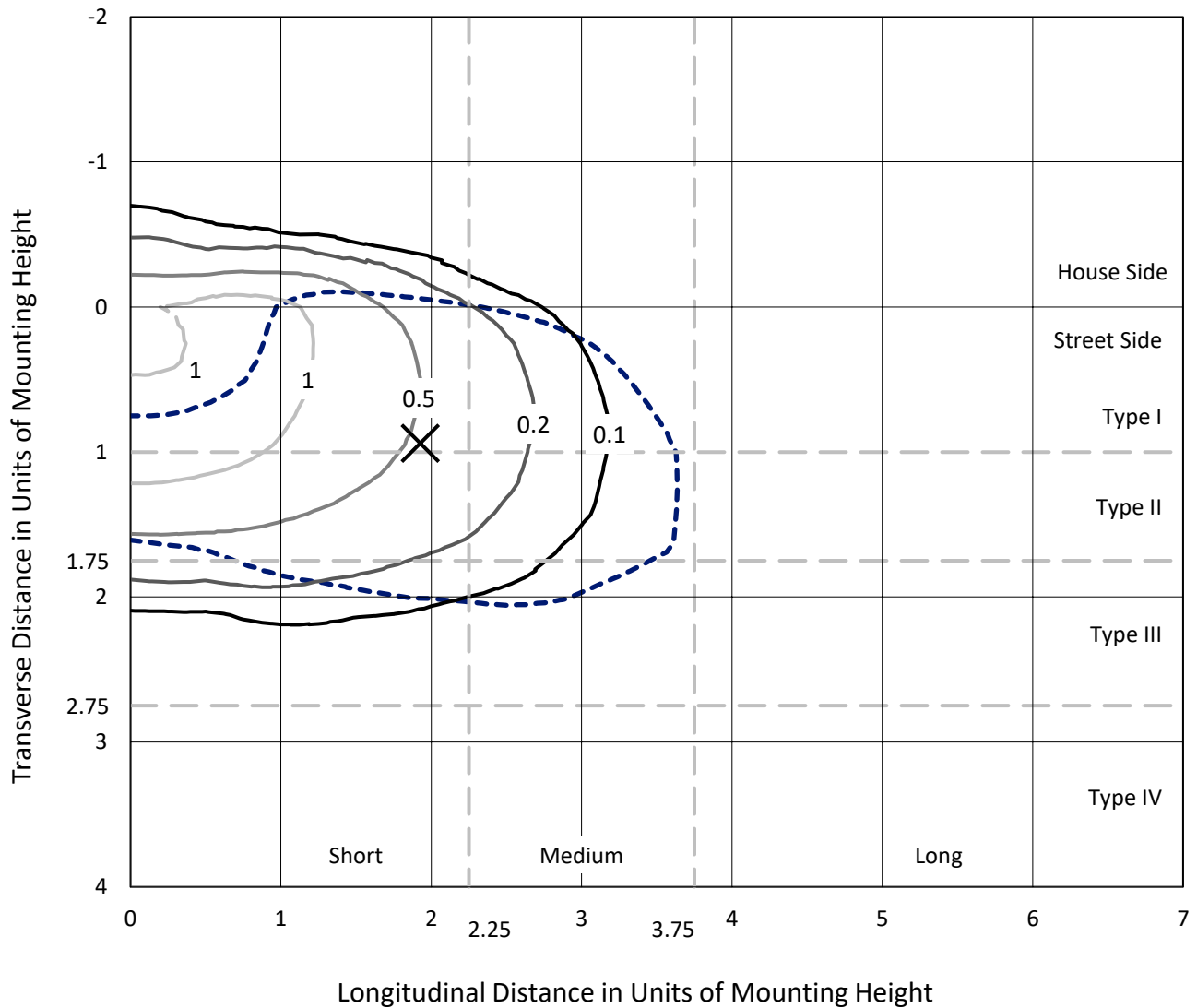
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

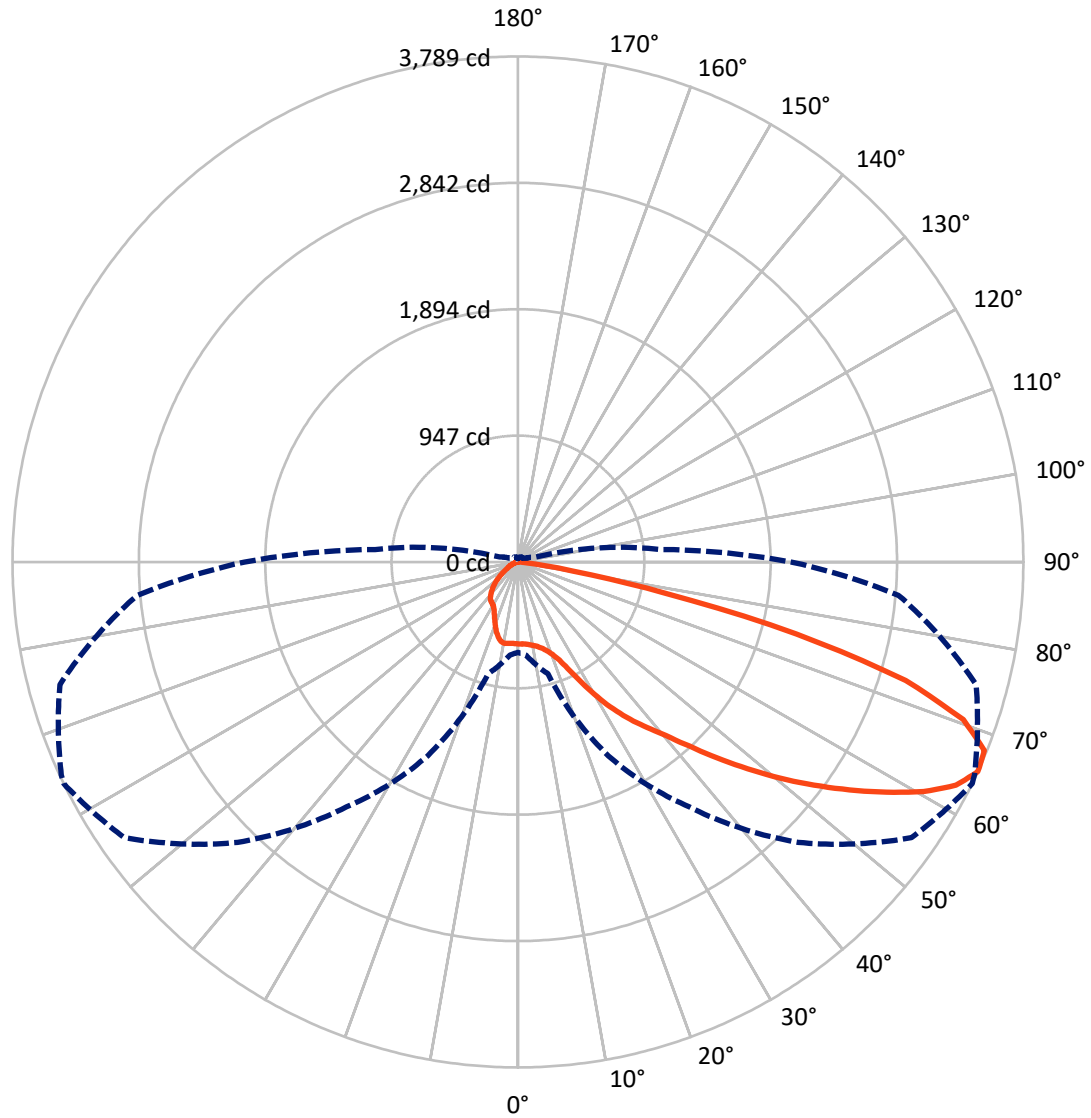
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	706.0	0.0	706.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4573.0	0.0	4573.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	5279.0	0.0	5279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.1
10°-20°	153.6	2.9
20°-30°	291.1	5.5
30°-40°	589.1	11.2
40°-50°	1003.6	19.0
50°-60°	1364.8	25.9
60°-70°	1281.6	24.3
70°-80°	513.5	9.7
80°-90°	24.9	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°	5279.0	100.0
0°-180°	5279.0	100.0

Coefficient of Utilization



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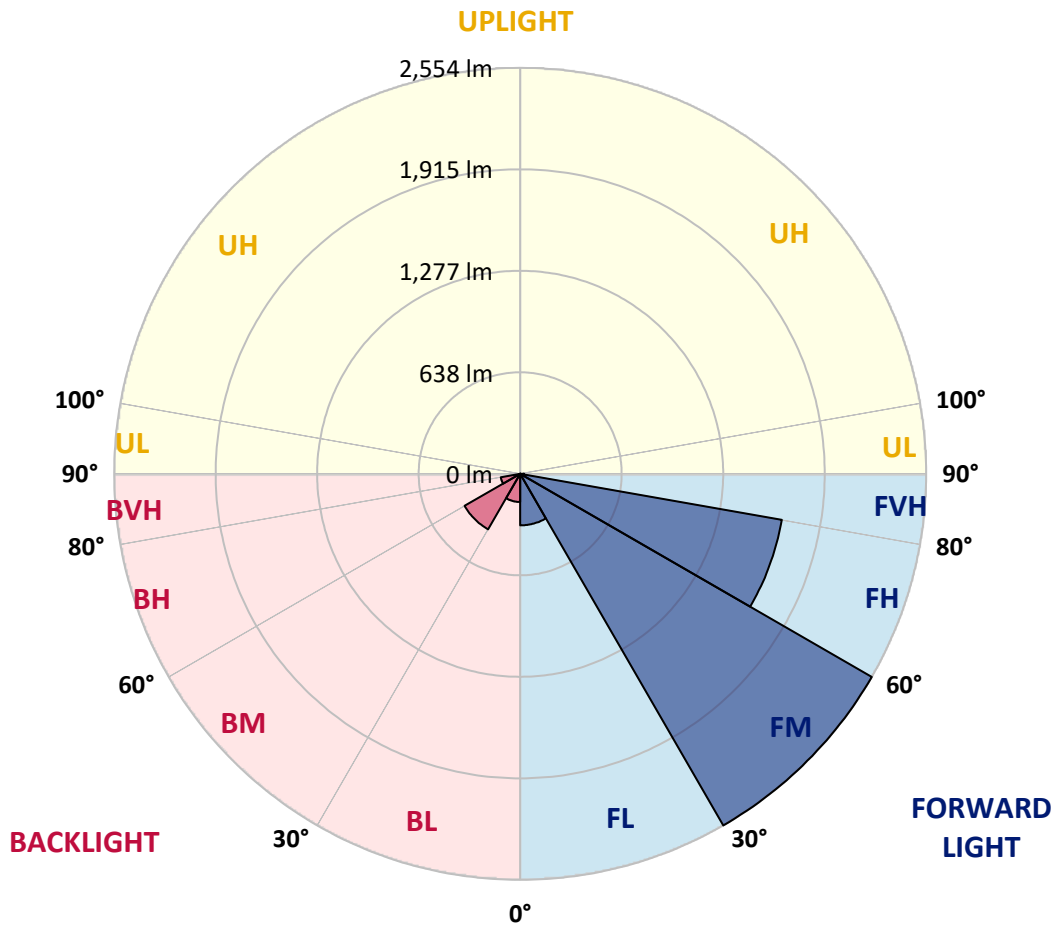
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.2	6.1			
FM (30°-60°)	2554.0	48.4			
FH (60°-80°)	1671.2	31.7			G1/1800
FVH (80°-90°)	23.7	0.4			G1/100
BL (0°-30°)	177.2	3.4	B1/500		
BM (30°-60°)	403.6	7.6	B1/1000		
BH (60°-80°)	123.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
2.5°	611.9	616.1	615.1	614.0	613.6	614.4	614.7	614.4	614.4	614.4
5°	600.2	603.7	603.7	606.2	609.8	614.0	617.2	617.9	618.6	619.7
7.5°	577.9	580.7	582.9	591.0	599.8	611.2	620.7	625.7	626.4	630.3
10°	562.7	566.2	569.8	578.3	591.0	608.0	624.3	636.3	638.1	647.3
12.5°	562.0	565.5	570.1	579.3	594.2	612.2	632.1	649.4	652.6	666.0
15°	569.4	573.7	577.9	589.2	605.2	627.1	648.3	669.9	673.1	692.2
17.5°	584.6	590.3	593.5	604.8	621.8	646.2	674.2	698.9	701.8	724.1
20°	614.7	621.4	622.5	631.7	648.3	674.5	707.8	738.6	742.1	767.6
22.5°	677.0	686.6	678.1	682.7	697.5	723.7	759.8	798.7	803.7	832.7
25°	786.7	800.1	778.2	770.4	776.8	804.0	849.3	898.5	904.2	927.6
27.5°	1002.2	984.9	951.6	919.1	899.9	915.5	966.5	1027.3	1034.4	1057.1
30°	1239.0	1223.8	1178.8	1106.6	1061.3	1058.8	1105.9	1173.9	1182.0	1203.6
32.5°	1476.1	1461.6	1412.7	1323.9	1245.3	1206.4	1239.0	1314.4	1318.6	1332.4
35°	1709.3	1694.4	1645.6	1554.6	1458.0	1369.6	1363.2	1448.1	1449.5	1464.1
37.5°	1943.9	1931.5	1879.5	1790.3	1695.1	1573.0	1513.9	1574.8	1576.6	1590.7
40°	2111.3	2116.6	2080.9	2011.9	1930.1	1796.7	1683.1	1709.7	1699.0	1722.7
42.5°	2255.0	2265.6	2234.5	2199.8	2152.4	2034.9	1892.6	1888.0	1871.0	1883.8
45°	2379.2	2388.1	2360.1	2352.0	2350.9	2268.4	2121.6	2094.0	2070.3	2067.8
47.5°	2424.9	2441.9	2453.9	2481.1	2534.2	2499.5	2358.3	2315.5	2289.0	2269.5
50°	2442.2	2460.3	2501.3	2580.6	2706.2	2721.1	2594.0	2545.9	2513.3	2478.0
52.5°	2418.9	2451.1	2506.3	2639.7	2821.9	2898.7	2820.2	2778.1	2740.9	2683.2
55°	2281.2	2313.4	2426.3	2639.0	2879.6	3023.3	3033.9	3015.2	2973.4	2882.4
57.5°	1991.0	2038.8	2217.5	2549.1	2878.6	3130.5	3243.4	3256.9	3210.2	3079.9
60°	1589.0	1653.7	1871.7	2349.8	2789.7	3188.6	3427.1	3494.3	3444.8	3274.6
62.5°	1108.7	1183.8	1390.1	2037.7	2586.6	3146.8	3561.2	3685.4	3647.9	3448.7
65°	676.3	700.4	866.7	1603.5	2241.2	2972.0	3602.6	3788.8	3776.4	3555.2
67.5°	450.5	470.7	518.5	1099.5	1739.7	2622.7	3503.5	3770.7	3774.3	3537.9
70°	271.4	288.8	319.9	639.5	1127.5	2075.9	3196.7	3540.7	3561.2	3306.1
72.5°	111.8	123.5	151.8	289.8	583.9	1317.5	2545.5	3039.9	3087.7	2779.8
75°	63.3	69.4	89.2	145.4	253.4	614.0	1541.9	2158.0	2228.5	1916.0
77.5°	42.1	44.9	57.7	94.1	142.6	209.5	658.9	1124.3	1258.8	1046.5
80°	28.3	30.8	39.6	63.0	92.7	89.9	209.9	416.5	512.4	359.6
82.5°	19.1	19.5	28.3	41.4	58.7	43.5	61.9	129.5	162.8	104.0
85°	11.0	10.6	20.9	24.1	26.2	18.0	18.8	38.9	51.0	43.9
87.5°	1.4	2.1	8.1	6.4	3.5	3.9	3.9	6.7	9.9	10.6
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°
614.0	0°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
614.7	2.5°	614.7	614.4	613.3	612.2	609.8	608.3	609.0	608.3	608.0	608.3
619.3	5°	619.3	618.2	615.4	611.9	606.9	600.9	597.0	591.4	586.0	582.9
631.7	7.5°	631.7	630.6	626.7	616.8	600.9	575.8	552.8	532.6	517.4	508.5
651.5	10°	651.5	649.7	643.7	621.8	580.0	525.2	479.5	441.7	416.9	405.2
674.9	12.5°	674.9	672.7	662.1	617.2	540.4	454.8	391.8	349.6	326.6	316.4
701.8	15°	702.5	699.6	678.8	595.2	482.7	376.9	319.2	287.7	272.9	263.6
736.1	17.5°	736.8	731.8	691.2	562.3	420.1	317.4	274.6	250.9	237.8	229.0
781.0	20°	781.4	773.3	701.1	523.1	362.4	279.9	244.5	224.7	214.8	207.0
844.7	22.5°	843.7	832.0	713.1	480.6	321.7	254.1	222.2	207.7	199.6	190.7
933.6	25°	920.8	907.0	728.0	441.3	293.7	231.8	206.0	193.9	184.4	174.1
1050.0	27.5°	1028.8	1004.0	745.7	409.1	269.7	212.7	191.1	177.7	166.7	158.2
1182.0	30°	1149.1	1108.4	761.2	389.6	247.7	195.0	171.6	158.2	147.9	141.9
1300.6	32.5°	1263.0	1207.8	771.5	381.1	227.9	174.8	150.4	135.9	128.1	126.3
1416.6	35°	1370.6	1297.7	770.4	373.0	210.2	154.7	129.5	114.7	108.6	109.7
1541.6	37.5°	1494.5	1393.6	763.0	360.3	195.7	136.2	111.5	98.4	93.1	93.4
1693.4	40°	1638.5	1504.4	758.4	336.2	179.8	119.3	96.6	86.0	82.1	80.7
1853.3	42.5°	1792.1	1611.6	759.1	308.9	160.0	104.0	86.3	77.5	74.0	72.9
2031.3	45°	1946.4	1713.9	760.2	280.6	139.1	92.4	78.9	71.5	69.4	67.9
2211.8	47.5°	2091.5	1801.0	740.3	250.2	118.6	83.5	72.9	67.9	66.2	64.4
2393.0	50°	2226.7	1859.0	692.6	214.8	102.3	76.4	68.3	64.8	63.0	61.2
2557.2	52.5°	2331.8	1868.2	613.6	178.4	91.0	71.1	65.5	62.3	60.2	58.4
2689.9	55°	2378.5	1810.5	501.5	144.4	82.1	66.5	62.6	59.5	57.0	55.2
2794.3	57.5°	2366.5	1689.1	391.1	116.1	73.6	61.9	59.1	57.0	54.1	51.3
2878.9	60°	2307.4	1526.7	294.8	96.6	65.8	57.0	55.2	53.4	49.5	45.3
2911.5	62.5°	2205.1	1322.5	210.2	80.0	57.3	51.3	50.6	49.2	43.5	35.7
2863.3	65°	2048.7	1074.4	141.6	66.5	49.2	44.9	45.3	42.8	35.4	26.5
2687.1	67.5°	1820.1	785.6	90.6	54.5	41.1	37.5	37.9	36.5	30.1	22.6
2353.0	70°	1528.8	520.2	59.1	41.4	32.9	29.0	31.1	31.5	25.5	18.4
1805.9	72.5°	1120.8	307.2	41.4	30.8	24.1	20.2	25.5	26.2	20.5	13.8
1086.4	75°	638.8	145.8	31.1	22.3	14.9	14.2	19.8	19.8	14.2	9.2
470.3	77.5°	268.3	60.9	21.9	14.5	8.5	8.1	13.4	12.4	7.1	4.2
114.7	80°	77.5	27.2	11.7	7.1	3.5	3.2	5.3	3.9	1.8	0.7
43.5	82.5°	30.4	12.0	4.6	2.8	1.4	1.4	0.7	0.0	0.0	0.0
24.8	85°	18.0	5.0	2.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0
5.3	87.5°	4.6	1.1	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

<u>180°</u>
614.0
609.8
583.6
508.9
404.1
315.3
264.0
228.3
205.6
189.3
173.1
156.4
140.8
127.4
109.7
94.8
80.3
72.5
67.9
64.4
61.2
58.0
54.9
51.0
44.6
35.0
25.8
21.6
17.7
13.1
8.5
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