

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: P939686

Luminaire Tested: **GALN-SB2B-927-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939686  
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-SB2B-927-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

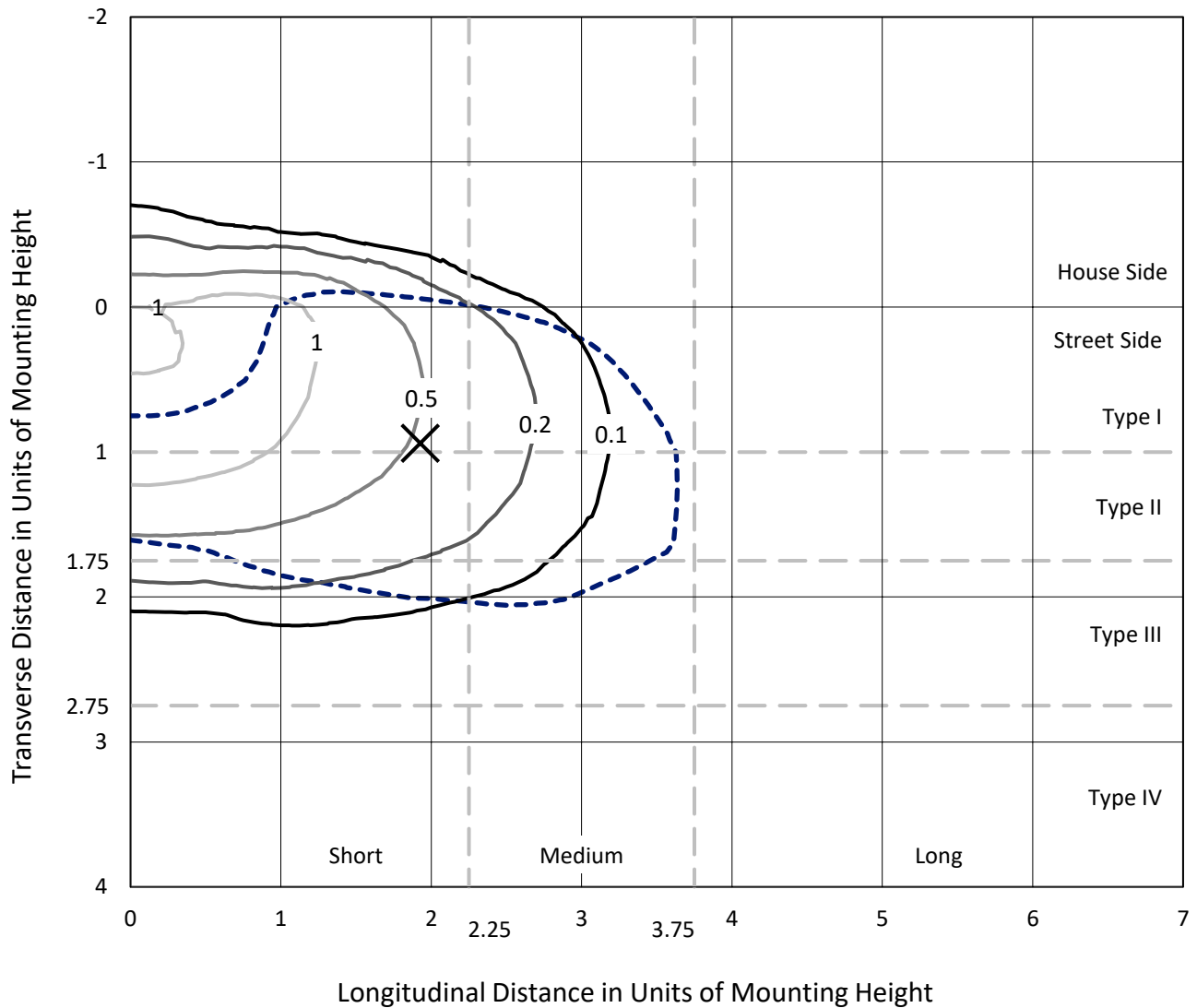
Lumens per Lamp: N/A  
Luminaire Lumens: 5376 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

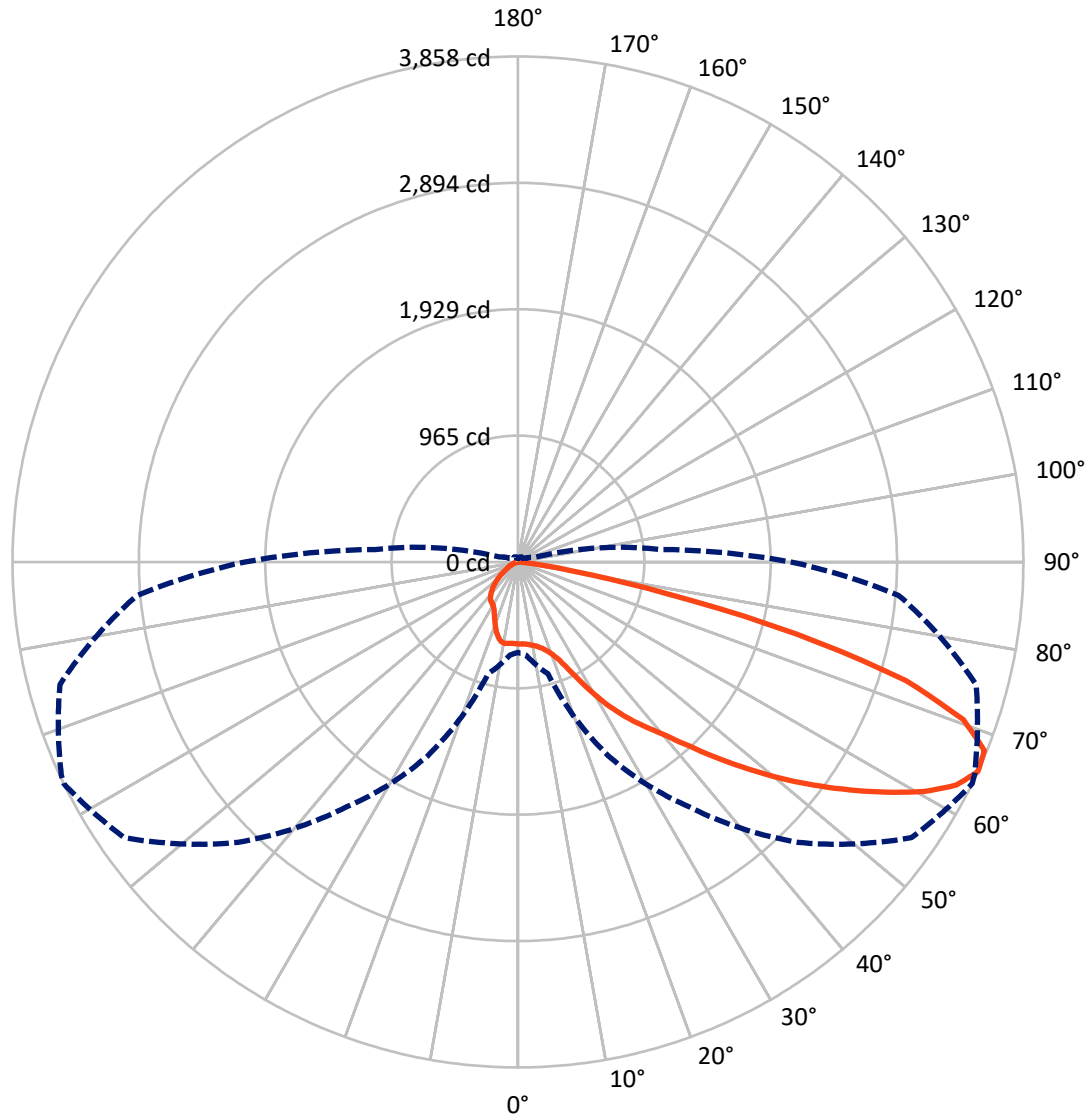
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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
<b>House Side</b>	Lumens	718.9	0.0	718.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	4657.1	0.0	4657.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5376.0	0.0	5376.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	1.1
10°-20°	156.5	2.9
20°-30°	296.5	5.5
30°-40°	600.0	11.2
40°-50°	1022.0	19.0
50°-60°	1389.9	25.9
60°-70°	1305.2	24.3
70°-80°	522.9	9.7
80°-90°	25.3	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°	5376.0	100.0
0°-180°	5376.0	100.0

**Coefficient of Utilization**



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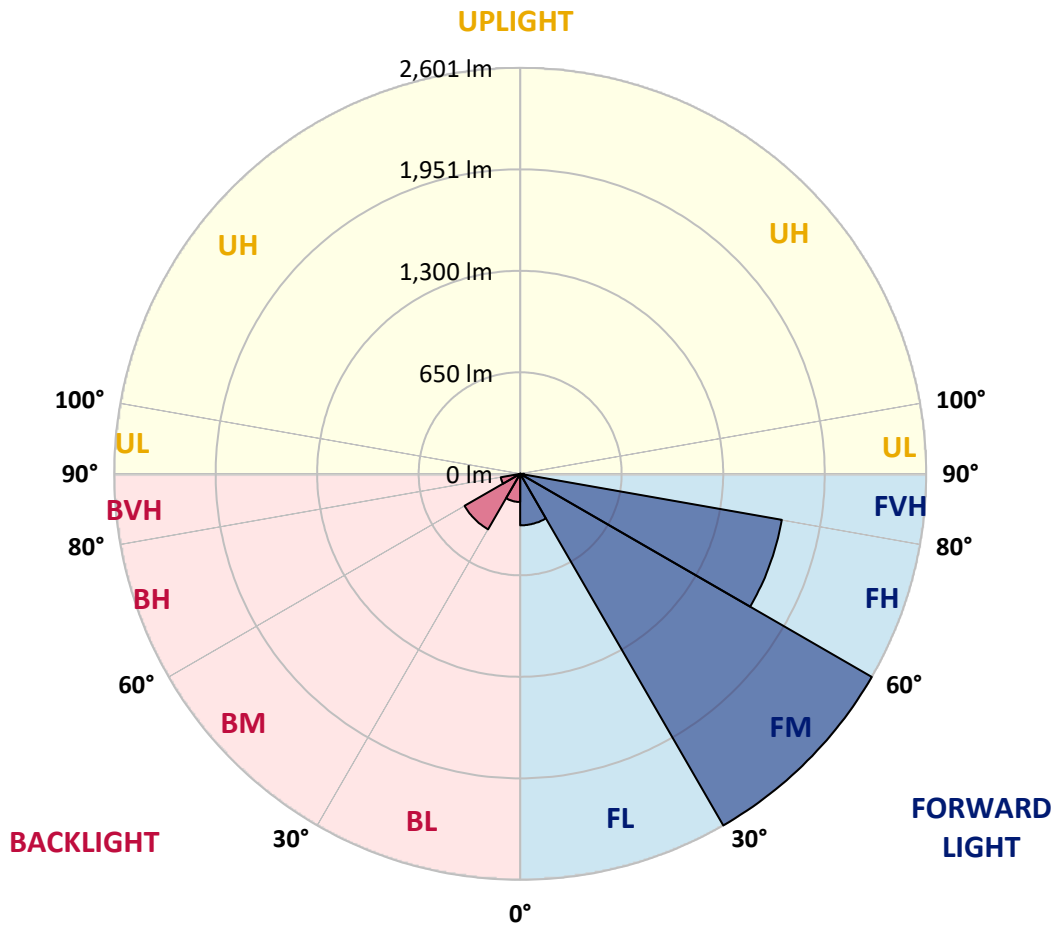
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.1	6.1			
FM (30°-60°)	2600.9	48.4			
FH (60°-80°)	1701.9	31.7			G1/1800
FVH (80°-90°)	24.1	0.4			G1/100
BL (0°-30°)	180.5	3.4	B1/500		
BM (30°-60°)	411.0	7.6	B1/1000		
BH (60°-80°)	126.2	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°	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3
2.5°	623.1	627.4	626.4	625.3	624.9	625.6	626.0	625.6	625.6	625.6
5°	611.2	614.8	614.8	617.4	621.0	625.3	628.5	629.2	630.0	631.1
7.5°	588.5	591.4	593.6	601.9	610.9	622.4	632.1	637.2	637.9	641.9
10°	573.0	576.6	580.2	588.9	601.9	619.2	635.7	648.0	649.8	659.2
12.5°	572.3	575.9	580.6	590.0	605.1	623.5	643.7	661.3	664.6	678.3
15°	579.9	584.2	588.5	600.1	616.3	638.6	660.2	682.2	685.5	704.9
17.5°	595.4	601.1	604.4	615.9	633.2	658.1	686.6	711.8	714.7	737.4
20°	626.0	632.9	633.9	643.3	660.2	686.9	720.8	752.1	755.7	781.7
22.5°	689.4	699.2	690.5	695.2	710.3	737.0	773.8	813.4	818.5	848.0
25°	801.2	814.9	792.5	784.6	791.1	818.8	864.9	915.0	920.8	944.6
27.5°	1020.6	1003.0	969.1	935.9	916.5	932.3	984.2	1046.2	1053.4	1076.5
30°	1261.7	1246.2	1200.5	1127.0	1080.8	1078.3	1126.2	1195.4	1203.7	1225.7
32.5°	1503.2	1488.4	1438.7	1348.2	1268.2	1228.6	1261.7	1338.5	1342.8	1356.9
35°	1740.7	1725.6	1675.8	1583.2	1484.8	1394.7	1388.2	1474.7	1476.2	1491.0
37.5°	1979.6	1967.0	1914.1	1823.2	1726.3	1602.0	1541.8	1603.8	1605.6	1620.0
40°	2150.1	2155.5	2119.1	2048.8	1965.6	1829.7	1714.0	1741.1	1730.3	1754.4
42.5°	2296.4	2307.2	2275.5	2240.2	2191.9	2072.3	1927.4	1922.7	1905.4	1918.4
45°	2422.9	2431.9	2403.5	2395.2	2394.1	2310.1	2160.6	2132.5	2108.3	2105.8
47.5°	2469.4	2486.7	2499.0	2526.7	2580.8	2545.5	2401.7	2358.1	2331.0	2311.2
50°	2487.1	2505.5	2547.3	2628.0	2755.9	2771.1	2641.7	2592.7	2559.5	2523.5
52.5°	2463.3	2496.1	2552.3	2688.2	2873.8	2952.0	2872.0	2829.1	2791.3	2732.5
55°	2323.1	2355.9	2470.9	2687.5	2932.5	3078.9	3089.7	3070.6	3028.0	2935.4
57.5°	2027.6	2076.2	2258.2	2595.9	2931.4	3188.1	3303.0	3316.7	3269.1	3136.5
60°	1618.2	1684.1	1906.1	2393.0	2841.0	3247.2	3490.1	3558.5	3508.1	3334.7
62.5°	1129.1	1205.5	1415.6	2075.2	2634.1	3204.6	3626.7	3753.1	3714.9	3512.0
65°	688.7	713.2	882.6	1632.9	2282.4	3026.6	3668.8	3858.4	3845.8	3620.5
67.5°	458.8	479.3	528.0	1119.7	1771.7	2670.9	3567.9	3840.0	3843.6	3602.9
70°	276.4	294.1	325.8	651.2	1148.2	2114.1	3255.4	3605.7	3626.7	3366.8
72.5°	113.9	125.8	154.6	295.2	594.7	1341.7	2592.3	3095.8	3144.4	2830.9
75°	64.5	70.6	90.8	148.1	258.0	625.3	1570.2	2197.7	2269.4	1951.2
77.5°	42.9	45.8	58.7	95.9	145.2	213.4	671.1	1145.0	1281.9	1065.7
80°	28.8	31.4	40.4	64.2	94.4	91.5	213.7	424.2	521.9	366.2
82.5°	19.5	19.8	28.8	42.2	59.8	44.3	63.1	131.9	165.8	106.0
85°	11.2	10.8	21.3	24.5	26.7	18.4	19.1	39.6	51.9	44.7
87.5°	1.4	2.2	8.3	6.5	3.6	4.0	4.0	6.8	10.1	10.8
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°
625.3	0°	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3	625.3
626.0	2.5°	626.0	625.6	624.6	623.5	621.0	619.5	620.2	619.5	619.2	619.5
630.7	5°	630.7	629.6	626.7	623.1	618.1	612.0	608.0	602.2	596.8	593.6
643.3	7.5°	643.3	642.2	638.3	628.2	612.0	586.4	562.9	542.4	526.9	517.9
663.5	10°	663.5	661.7	655.6	633.2	590.7	534.8	488.3	449.8	424.5	412.7
687.3	12.5°	687.3	685.1	674.3	628.5	550.3	463.1	399.0	356.1	332.6	322.2
714.7	15°	715.4	712.5	691.2	606.2	491.6	383.8	325.1	293.0	277.9	268.5
749.6	17.5°	750.3	745.3	703.9	572.7	427.8	323.3	279.7	255.5	242.2	233.2
795.4	20°	795.8	787.5	713.9	532.7	369.0	285.1	249.0	228.9	218.8	210.8
860.3	22.5°	859.2	847.3	726.2	489.4	327.6	258.8	226.3	211.6	203.3	194.3
950.7	25°	937.7	923.7	741.3	449.4	299.1	236.1	209.7	197.5	187.8	177.3
1069.3	27.5°	1047.7	1022.4	759.4	416.6	274.6	216.6	194.6	180.9	169.7	161.1
1203.7	30°	1170.2	1128.8	775.2	396.8	252.3	198.6	174.8	161.1	150.6	144.5
1324.5	32.5°	1286.2	1230.0	785.7	388.1	232.1	178.0	153.2	138.4	130.5	128.7
1442.7	35°	1395.8	1321.6	784.6	379.9	214.1	157.5	131.9	116.8	110.6	111.7
1569.9	37.5°	1521.9	1419.2	777.0	366.9	199.3	138.8	113.5	100.2	94.8	95.1
1724.5	40°	1668.6	1532.0	772.3	342.4	183.1	121.5	98.4	87.6	83.6	82.2
1887.4	42.5°	1825.0	1641.2	773.0	314.6	162.9	106.0	87.9	78.9	75.3	74.2
2068.7	45°	1982.2	1745.4	774.1	285.8	141.6	94.1	80.4	72.8	70.6	69.2
2252.5	47.5°	2129.9	1834.0	753.9	254.8	120.7	85.1	74.2	69.2	67.4	65.6
2437.0	50°	2267.6	1893.2	705.3	218.8	104.2	77.8	69.6	66.0	64.2	62.3
2604.2	52.5°	2374.6	1902.5	624.9	181.6	92.6	72.4	66.7	63.4	61.3	59.5
2739.4	55°	2422.2	1843.8	510.7	147.0	83.6	67.8	63.8	60.5	58.0	56.2
2845.7	57.5°	2410.0	1720.2	398.2	118.2	75.0	63.1	60.2	58.0	55.1	52.3
2931.8	60°	2349.8	1554.7	300.2	98.4	67.0	58.0	56.2	54.4	50.5	46.1
2965.0	62.5°	2245.6	1346.8	214.1	81.4	58.4	52.3	51.5	50.1	44.3	36.4
2916.0	65°	2086.3	1094.2	144.2	67.8	50.1	45.8	46.1	43.6	36.0	27.0
2736.5	67.5°	1853.5	800.1	92.3	55.5	41.8	38.2	38.6	37.1	30.6	23.1
2396.3	70°	1556.9	529.8	60.2	42.2	33.5	29.6	31.7	32.1	25.9	18.7
1839.1	72.5°	1141.4	312.8	42.2	31.4	24.5	20.5	25.9	26.7	20.9	14.1
1106.4	75°	650.5	148.5	31.7	22.7	15.1	14.4	20.2	20.2	14.4	9.4
479.0	77.5°	273.2	62.0	22.3	14.8	8.6	8.3	13.7	12.6	7.2	4.3
116.8	80°	78.9	27.8	11.9	7.2	3.6	3.2	5.4	4.0	1.8	0.7
44.3	82.5°	31.0	12.3	4.7	2.9	1.4	1.4	0.7	0.0	0.0	0.0
25.2	85°	18.4	5.0	2.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0
5.4	87.5°	4.7	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>
625.3
621.0
594.3
518.2
411.6
321.1
268.9
232.5
209.4
192.8
176.2
159.3
143.4
129.7
111.7
96.6
81.8
73.9
69.2
65.6
62.3
59.1
55.9
51.9
45.4
35.7
26.3
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18.0
13.3
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