

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: P945286

Luminaire Tested: **GALN-SB1B-740-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-740-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

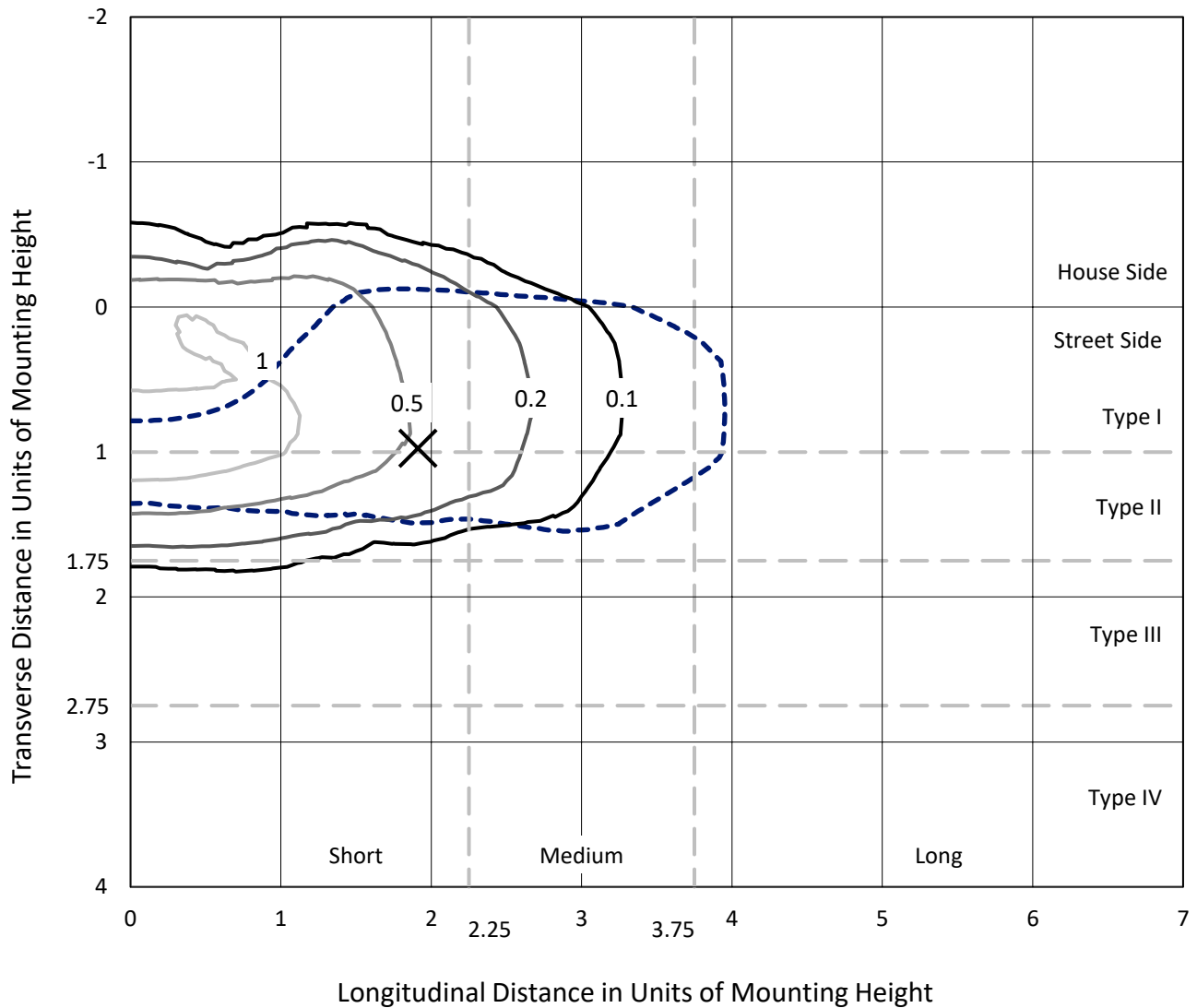
Lumens per Lamp: N/A  
Luminaire Lumens: 4554 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

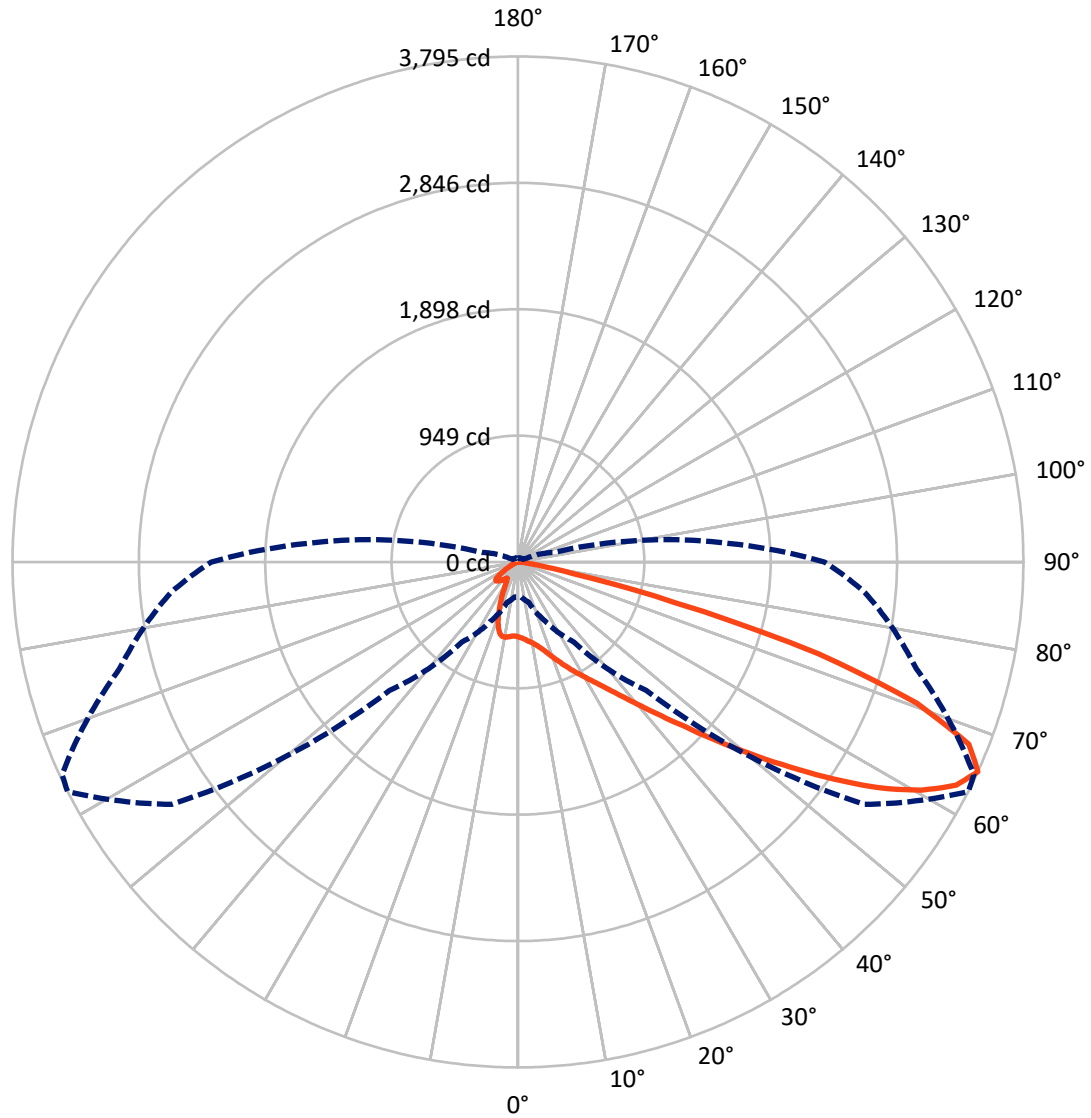
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	669.4	0.0	669.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	3884.6	0.0	3884.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	4554.0	0.0	4554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.0	1.2
10°-20°	146.9	3.2
20°-30°	255.8	5.6
30°-40°	461.1	10.1
40°-50°	914.6	20.1
50°-60°	1245.8	27.4
60°-70°	994.4	21.8
70°-80°	450.0	9.9
80°-90°	32.3	0.7
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°	4554.0	100.0
0°-180°	4554.0	100.0

**Coefficient of Utilization**



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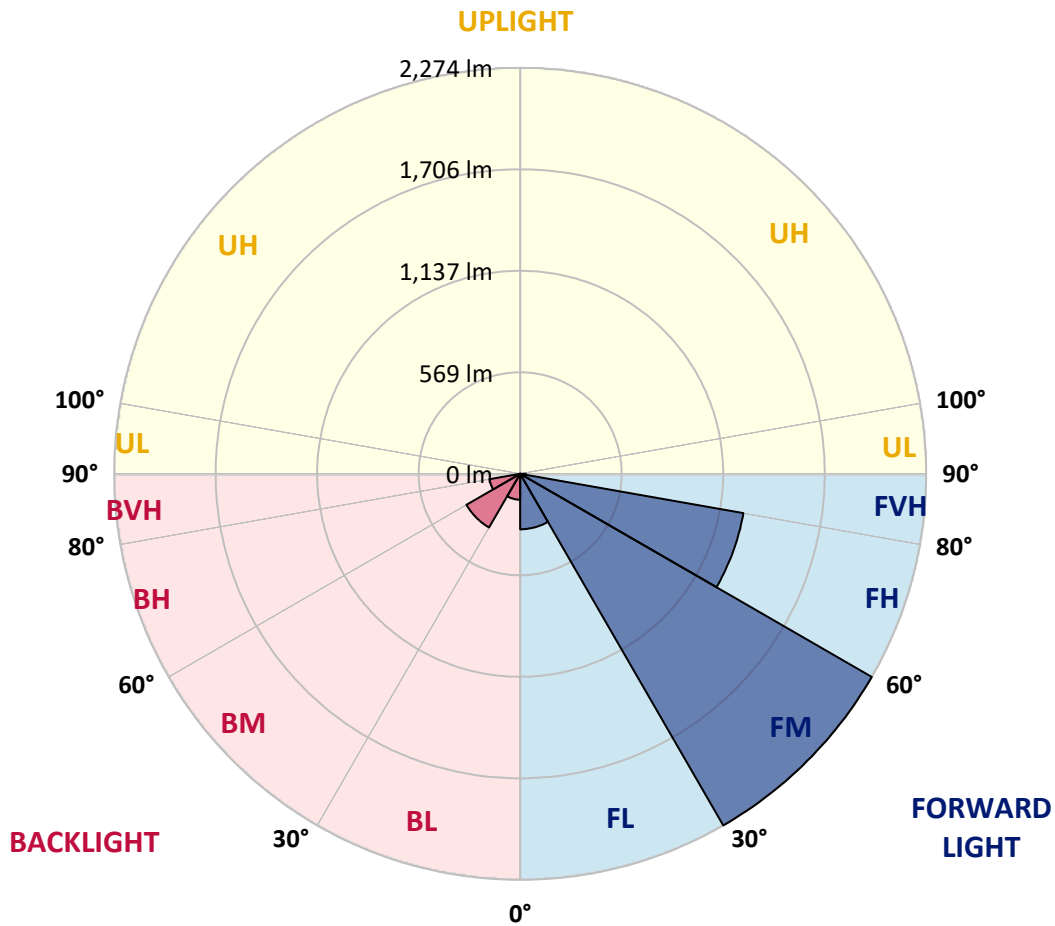
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.9	6.8			
FM (30°-60°)	2274.2	49.9			
FH (60°-80°)	1269.6	27.9			G1/1800
FVH (80°-90°)	29.9	0.7			G1/100
BL (0°-30°)	144.9	3.2	B1/500		
BM (30°-60°)	347.4	7.6	B1/1000		
BH (60°-80°)	174.8	3.8	B1/500		G1/500
BVH (80°-90°)	2.4	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0
2.5°	575.2	573.6	575.8	574.9	574.3	573.0	572.4	571.8	570.5	569.6
5°	576.8	575.8	578.0	579.9	581.8	583.7	584.6	585.9	584.6	582.1
7.5°	563.6	563.0	567.7	573.3	581.8	589.0	596.8	601.2	601.5	600.6
10°	562.7	561.1	565.8	572.7	583.7	596.5	610.3	619.7	620.9	625.0
12.5°	577.4	575.8	582.4	589.9	601.2	614.7	631.6	644.8	646.6	652.3
15°	602.2	600.0	607.5	617.2	631.6	647.0	664.8	676.7	678.3	685.2
17.5°	631.0	628.8	637.6	647.9	663.6	684.5	705.2	718.4	720.3	724.6
20°	667.9	665.1	672.0	681.4	698.0	723.1	747.8	766.6	766.3	766.3
22.5°	710.9	706.5	712.4	719.9	735.6	766.0	798.9	821.1	821.1	812.4
25°	756.9	752.5	759.1	766.0	779.8	814.3	852.8	880.4	881.6	866.6
27.5°	814.6	808.9	813.9	822.1	830.2	865.3	911.1	943.0	943.6	920.5
30°	925.5	909.5	893.8	885.1	888.8	923.6	972.5	1007.9	1011.0	979.0
32.5°	1128.5	1125.4	1070.2	998.2	960.6	986.2	1041.1	1083.7	1085.6	1044.5
35°	1444.0	1440.2	1351.6	1214.3	1091.8	1070.2	1124.4	1174.9	1173.6	1127.2
37.5°	1820.6	1817.1	1700.2	1516.7	1318.3	1197.1	1231.9	1284.8	1292.7	1231.9
40°	2142.3	2129.5	2055.5	1878.5	1619.1	1407.6	1384.8	1419.8	1428.0	1355.9
42.5°	2386.0	2375.1	2337.5	2226.9	1983.2	1719.0	1564.9	1578.4	1587.5	1501.0
45°	2512.3	2509.8	2524.8	2514.5	2354.1	2101.3	1822.4	1766.4	1769.8	1661.7
47.5°	2530.2	2528.9	2597.5	2694.6	2673.0	2532.4	2153.0	2000.7	1988.5	1843.1
50°	2424.9	2422.4	2554.0	2736.0	2886.1	2894.5	2528.3	2264.8	2237.9	2030.8
52.5°	2088.7	2088.1	2304.3	2607.2	2960.9	3211.6	2899.2	2554.9	2509.8	2229.4
55°	1607.2	1618.8	1866.6	2224.7	2824.3	3364.2	3232.3	2877.0	2807.7	2429.3
57.5°	1138.5	1155.4	1400.4	1719.4	2400.8	3273.9	3457.5	3199.7	3125.1	2628.5
60°	611.6	626.6	871.9	1252.5	1786.1	2937.4	3576.3	3479.8	3409.3	2817.8
62.5°	364.4	369.4	470.9	808.6	1208.1	2244.1	3525.8	3693.1	3635.2	2976.6
65°	261.6	262.5	313.6	493.8	733.4	1363.5	3172.1	3795.2	3777.4	3096.3
67.5°	220.2	219.6	240.9	328.0	499.7	683.0	2431.2	3650.8	3726.6	3172.1
70°	188.9	189.9	214.9	240.3	375.6	386.6	1208.7	3178.7	3340.3	3192.2
72.5°	140.7	143.8	167.0	219.0	283.5	266.0	417.3	2356.9	2649.2	3007.6
75°	99.3	100.9	117.5	184.2	211.5	193.6	213.0	1218.4	1593.1	2305.8
77.5°	76.4	79.3	89.0	128.8	208.3	136.0	130.3	421.7	647.9	1392.9
80°	41.4	46.4	64.2	93.0	146.3	96.2	64.5	167.9	219.6	651.3
82.5°	21.3	23.8	44.8	67.0	83.3	84.0	32.0	69.9	90.5	201.1
85°	8.5	10.3	30.1	37.0	42.9	41.4	14.4	28.2	32.6	55.8
87.5°	1.9	3.1	11.0	8.5	8.1	8.8	3.4	6.6	6.3	6.6
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°
562.0	0°	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0	562.0
565.8	2.5°	565.5	564.2	560.8	557.0	552.7	550.1	548.6	548.3	546.1	544.5
578.3	5°	574.9	573.6	567.1	559.2	550.8	544.2	537.9	532.3	524.1	522.6
596.5	7.5°	593.7	590.2	579.6	568.9	553.0	533.9	510.7	484.0	460.2	453.0
620.6	10°	616.9	612.2	598.7	579.9	544.5	492.5	436.4	384.4	343.1	331.5
649.1	12.5°	643.2	639.1	621.3	586.5	509.1	414.8	329.0	264.4	224.3	214.3
679.5	15°	674.5	668.6	643.8	576.5	445.8	315.2	225.9	187.7	173.3	171.4
714.3	17.5°	707.7	698.0	663.9	540.4	360.6	224.0	174.5	163.5	157.3	155.4
749.4	20°	738.1	725.6	675.8	485.9	269.4	174.5	156.3	149.1	143.5	141.3
784.5	22.5°	768.5	750.7	675.8	411.7	202.1	154.8	143.5	136.9	130.3	127.5
822.1	25°	800.2	776.3	663.9	329.0	162.6	141.9	131.3	124.1	118.4	115.0
857.8	27.5°	830.9	798.0	636.6	250.6	144.7	130.6	120.0	113.1	107.8	105.3
896.6	30°	860.0	819.3	598.4	190.2	133.1	119.7	109.7	103.7	98.4	95.9
947.1	32.5°	899.5	846.2	557.7	156.0	123.1	109.3	100.3	94.6	89.9	88.0
1012.6	35°	954.3	886.0	522.6	153.2	114.7	100.9	91.8	86.5	81.8	80.2
1097.2	37.5°	1032.0	950.2	504.1	172.0	107.8	93.4	84.9	79.3	74.9	73.6
1204.6	40°	1127.9	1037.3	514.1	190.8	103.1	86.8	78.6	73.0	69.2	67.7
1328.1	42.5°	1241.6	1144.8	569.6	205.2	99.9	81.1	72.7	66.4	63.9	63.3
1468.1	45°	1372.2	1262.9	654.5	220.6	94.9	75.8	66.7	62.0	60.2	59.8
1620.4	47.5°	1520.7	1392.6	752.8	239.7	89.9	70.8	62.0	58.9	57.3	56.7
1779.2	50°	1668.0	1523.2	854.0	250.3	85.8	66.1	58.3	55.8	54.5	54.2
1947.1	52.5°	1822.1	1657.6	935.8	240.3	82.4	62.3	55.1	53.3	52.0	51.7
2101.9	55°	1969.1	1766.4	949.9	204.0	75.5	58.6	51.7	50.8	49.2	49.2
2258.9	57.5°	2095.6	1820.9	850.3	149.8	68.6	52.9	48.2	47.3	46.1	45.7
2400.5	60°	2211.9	1805.2	656.4	100.9	61.1	47.3	43.9	43.2	42.0	40.4
2523.6	62.5°	2277.3	1736.3	449.0	65.8	53.6	41.4	38.8	38.5	35.7	32.6
2614.8	65°	2302.1	1594.7	280.1	47.9	44.8	35.4	33.5	32.9	28.8	25.4
2666.4	67.5°	2280.5	1361.6	141.3	37.9	35.4	29.4	27.6	27.6	24.8	21.6
2663.3	70°	2194.0	1020.7	59.5	30.4	27.3	22.6	22.6	23.8	21.0	17.5
2525.2	72.5°	2006.3	686.7	31.6	23.2	20.4	16.0	18.5	19.4	16.6	13.2
2066.8	75°	1595.0	418.9	21.9	17.2	12.8	11.3	14.1	14.7	11.3	8.8
1417.0	77.5°	1090.9	240.6	14.7	11.0	8.1	6.6	9.7	9.1	6.0	4.1
546.4	80°	479.0	100.3	8.5	5.0	3.1	2.5	3.4	2.5	1.9	1.3
74.9	82.5°	56.1	23.5	3.1	1.9	1.3	0.6	0.3	0.0	0.0	0.0
22.9	85°	11.6	2.8	1.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	2.2	0.6	0.3	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°
562.0
546.1
521.9
449.6
327.1
211.5
169.5
154.5
140.0
125.9
113.7
105.3
96.2
88.0
80.2
73.3
67.4
63.3
59.5
56.7
54.2
51.7
48.9
45.4
40.1
32.0
25.1
21.3
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13.2
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