

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: P939266

Luminaire Tested: **GALN-SB1D-740-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939266  
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-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

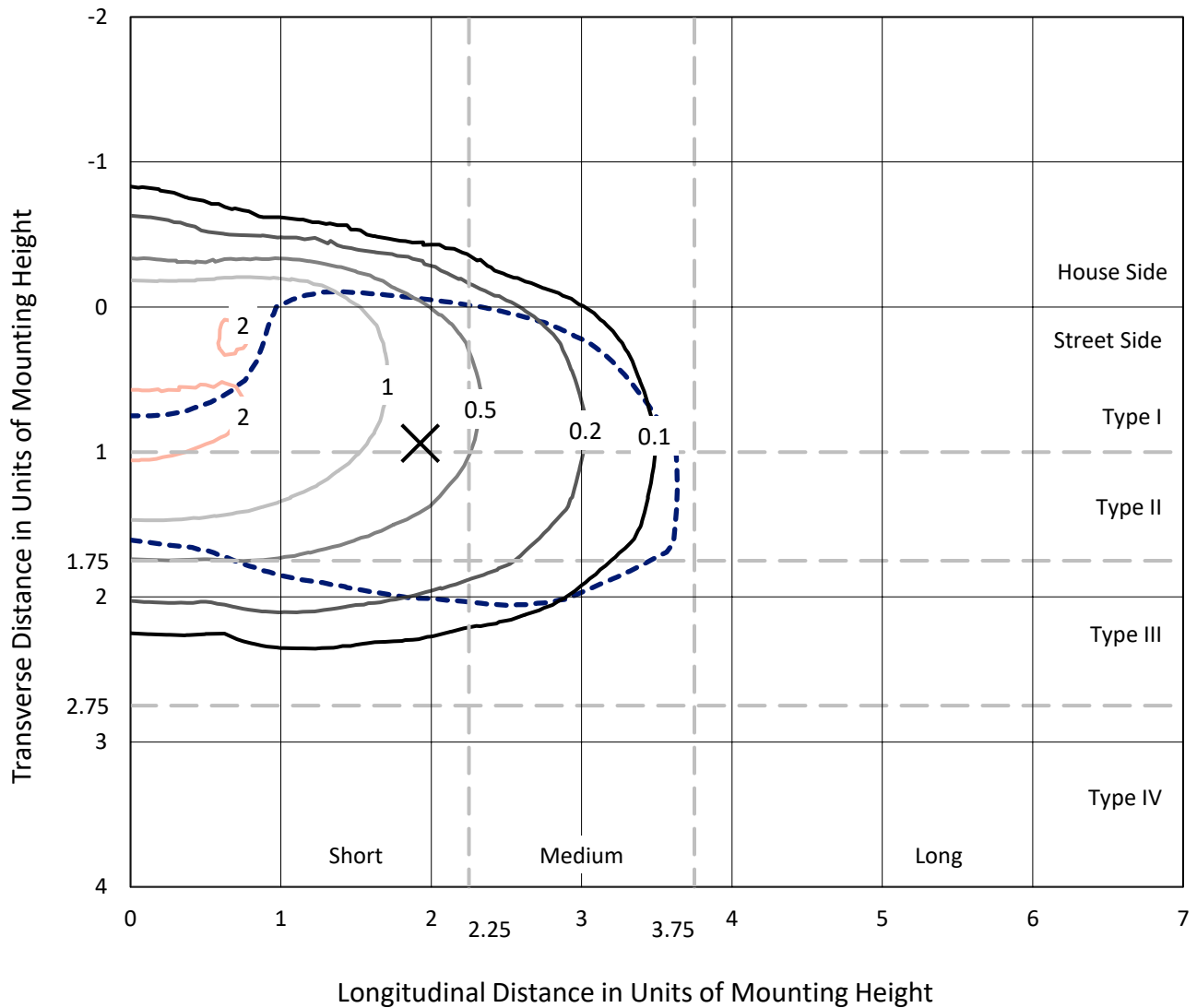
Lumens per Lamp: N/A  
Luminaire Lumens: 8446 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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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### Iso-Footcandle Lines of Horizontal Illumination

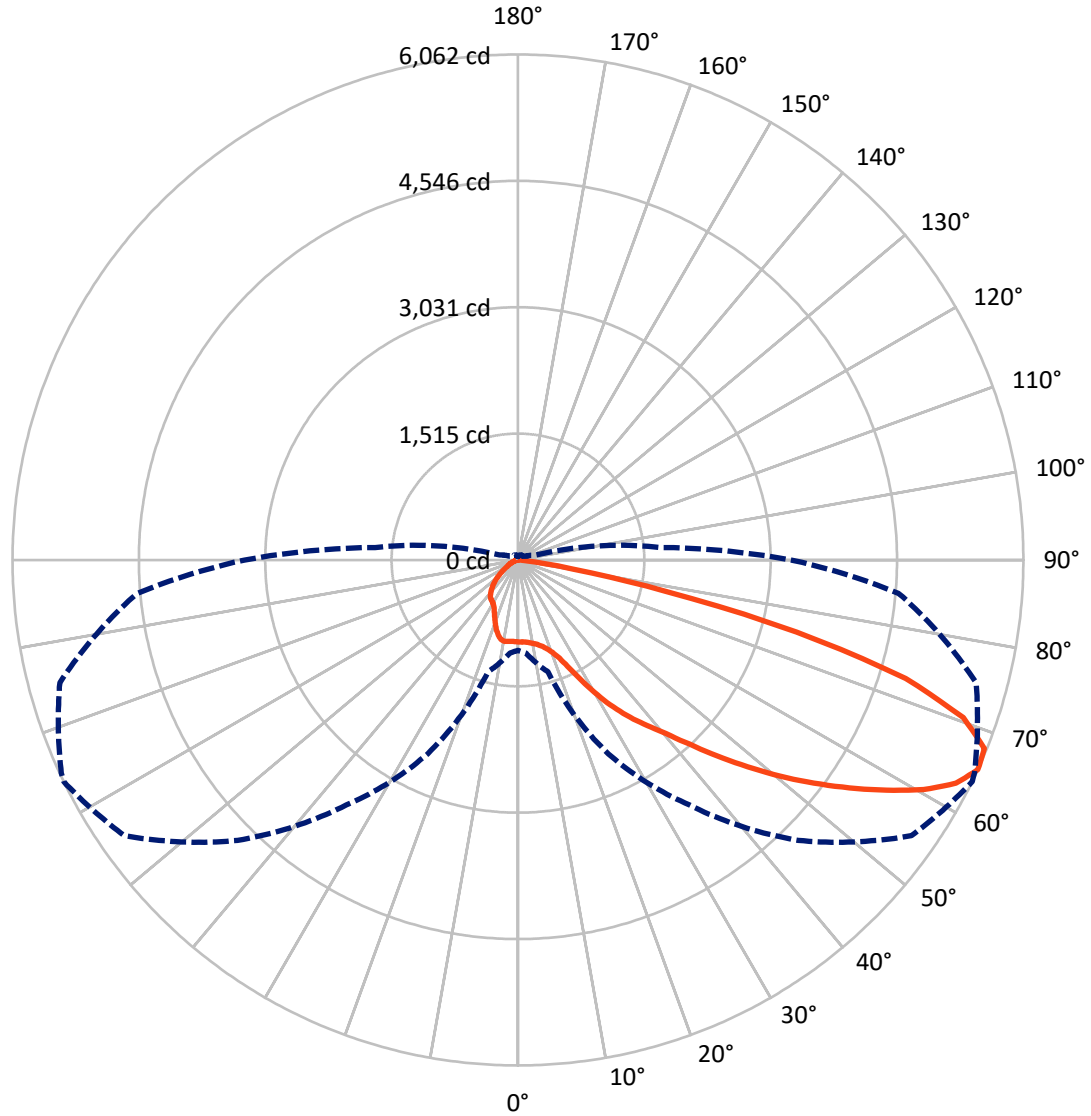
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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
<b>House Side</b>	Lumens	1129.5	0.0	1129.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	7316.5	0.0	7316.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	8446.0	0.0	8446.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	1.1
10°-20°	245.8	2.9
20°-30°	465.8	5.5
30°-40°	942.6	11.2
40°-50°	1605.7	19.0
50°-60°	2183.6	25.9
60°-70°	2050.5	24.3
70°-80°	821.5	9.7
80°-90°	39.8	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°	8446.0	100.0
0°-180°	8446.0	100.0

**Coefficient of Utilization**



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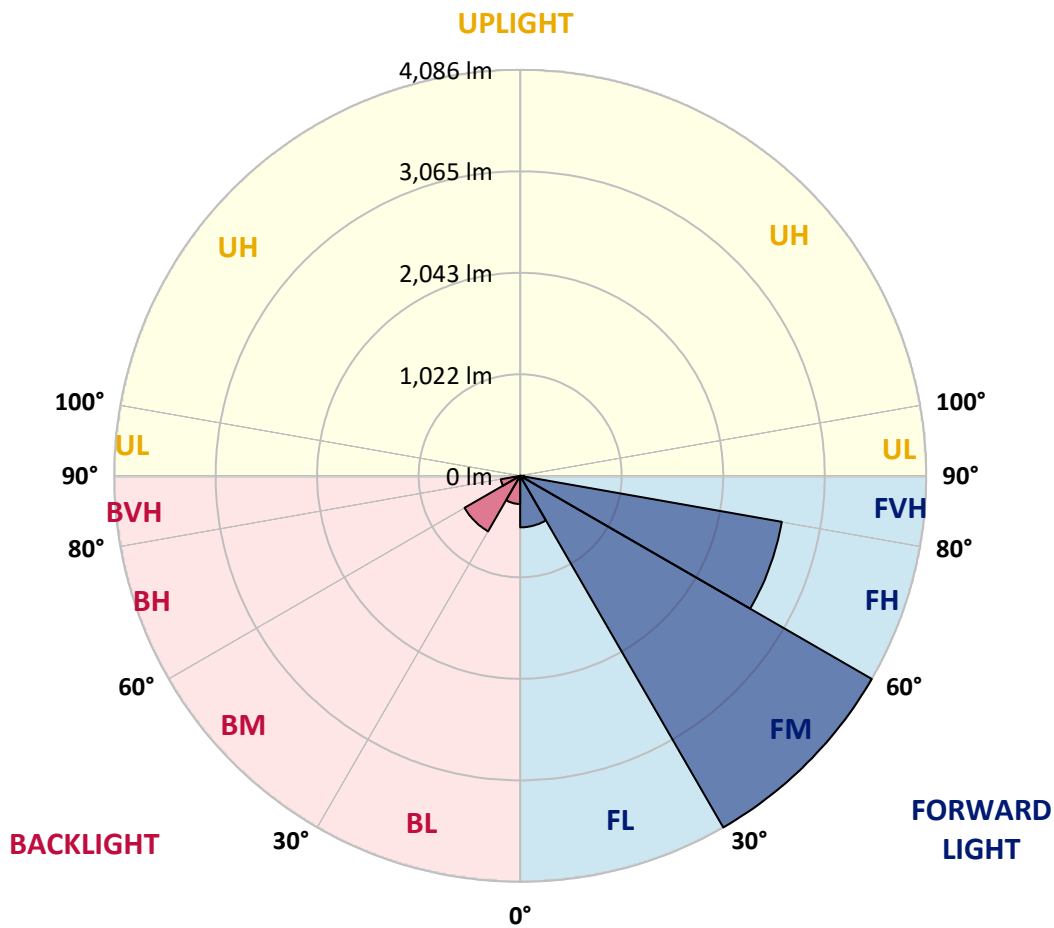
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.7	6.1			
FM (30°-60°)	4086.2	48.4			
FH (60°-80°)	2673.8	31.7			G2/5000
FVH (80°-90°)	37.9	0.4			G1/100
BL (0°-30°)	283.6	3.4	B1/500		
BM (30°-60°)	645.7	7.6	B1/1000		
BH (60°-80°)	198.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	982.4	982.4	982.4	982.4	982.4	982.4	982.4	982.4	982.4	982.4
2.5°	979.0	985.8	984.1	982.4	981.8	982.9	983.5	982.9	982.9	982.9
5°	960.3	965.9	965.9	969.9	975.6	982.4	987.5	988.6	989.7	991.4
7.5°	924.6	929.1	932.5	945.6	959.7	977.8	993.1	1001.0	1002.2	1008.4
10°	900.3	905.9	911.6	925.2	945.6	972.7	998.8	1018.0	1020.9	1035.6
12.5°	899.1	904.8	912.1	926.9	950.7	979.5	1011.2	1039.0	1044.1	1065.6
15°	911.0	917.8	924.6	942.7	968.2	1003.3	1037.3	1071.8	1076.9	1107.5
17.5°	935.4	944.4	949.5	967.6	994.8	1033.9	1078.6	1118.2	1122.8	1158.4
20°	983.5	994.2	995.9	1010.7	1037.3	1079.2	1132.4	1181.7	1187.3	1228.1
22.5°	1083.1	1098.4	1084.8	1092.2	1116.0	1157.9	1215.6	1277.9	1285.8	1332.3
25°	1258.7	1280.2	1245.1	1232.6	1242.8	1286.4	1358.9	1437.6	1446.6	1484.0
27.5°	1603.5	1575.7	1522.5	1470.4	1439.8	1464.8	1546.3	1643.7	1655.0	1691.2
30°	1982.3	1957.9	1886.0	1770.5	1698.0	1694.1	1769.4	1878.1	1891.1	1925.6
32.5°	2361.6	2338.4	2260.3	2118.2	1992.5	1930.2	1982.3	2102.9	2109.7	2131.7
35°	2734.7	2711.0	2632.8	2487.3	2332.7	2191.2	2181.0	2316.9	2319.2	2342.4
37.5°	3110.1	3090.3	3007.1	2864.4	2712.1	2516.8	2422.2	2519.6	2522.4	2545.1
40°	3378.0	3386.4	3329.3	3218.8	3088.1	2874.6	2692.8	2735.3	2718.3	2756.3
42.5°	3607.8	3624.8	3575.0	3519.5	3443.6	3255.7	3028.0	3020.7	2993.5	3013.9
45°	3806.6	3820.7	3776.0	3763.0	3761.3	3629.3	3394.4	3350.2	3312.3	3308.3
47.5°	3879.6	3906.8	3926.0	3969.6	4054.6	3999.1	3773.2	3704.6	3662.2	3631.0
50°	3907.3	3936.2	4001.9	4128.7	4329.7	4353.5	4150.2	4073.2	4021.2	3964.5
52.5°	3870.0	3921.5	4009.8	4223.3	4514.9	4637.7	4512.1	4444.7	4385.2	4292.9
55°	3649.7	3701.3	3881.9	4222.2	4607.2	4837.0	4854.0	4824.0	4757.2	4611.7
57.5°	3185.4	3261.9	3547.8	4078.3	4605.5	5008.6	5189.2	5210.7	5136.0	4927.6
60°	2542.2	2645.9	2994.6	3759.6	4463.4	5101.5	5483.1	5590.7	5511.4	5239.1
62.5°	1773.9	1893.9	2224.0	3260.2	4138.4	5034.7	5697.7	5896.4	5836.4	5517.6
65°	1082.0	1120.5	1386.6	2565.5	3585.7	4755.0	5763.9	6061.7	6041.9	5688.0
67.5°	720.8	753.0	829.5	1759.2	2783.4	4196.1	5605.4	6032.9	6038.5	5660.3
70°	434.3	462.0	511.8	1023.1	1803.9	3321.3	5114.5	5664.8	5697.7	5289.4
72.5°	178.9	197.6	242.9	463.7	934.2	2108.0	4072.7	4863.7	4940.1	4447.5
75°	101.3	111.0	142.7	232.7	405.4	982.4	2466.9	3452.7	3565.4	3065.4
77.5°	67.4	71.9	92.3	150.6	228.2	335.2	1054.3	1798.8	2014.0	1674.3
80°	45.3	49.3	63.4	100.8	148.3	143.8	335.8	666.4	819.9	575.3
82.5°	30.6	31.1	45.3	66.2	94.0	69.6	99.1	207.2	260.5	166.5
85°	17.6	17.0	33.4	38.5	41.9	28.9	30.0	62.3	81.5	70.2
87.5°	2.3	3.4	13.0	10.2	5.7	6.2	6.2	10.8	15.9	17.0
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°
982.4	0°	982.4	982.4	982.4	982.4	982.4	982.4	982.4	982.4	982.4	982.4
983.5	2.5°	983.5	982.9	981.2	979.5	975.6	973.3	974.4	973.3	972.7	973.3
990.9	5°	990.9	989.2	984.6	979.0	971.0	961.4	955.2	946.1	937.6	932.5
1010.7	7.5°	1010.7	1009.0	1002.7	986.9	961.4	921.2	884.4	852.1	827.8	813.6
1042.4	10°	1042.4	1039.5	1029.9	994.8	928.0	840.2	767.2	706.6	667.0	648.3
1079.7	12.5°	1079.7	1076.3	1059.4	987.5	864.6	727.6	626.8	559.4	522.6	506.2
1122.8	15°	1123.9	1119.4	1086.0	952.3	772.3	603.0	510.7	460.3	436.5	421.8
1177.7	17.5°	1178.8	1170.9	1105.8	899.7	672.1	507.9	439.4	401.4	380.5	366.3
1249.6	20°	1250.2	1237.1	1121.6	836.8	579.8	447.9	391.2	359.5	343.7	331.2
1351.5	22.5°	1349.8	1331.1	1140.9	768.9	514.7	406.5	355.6	332.4	319.3	305.2
1493.6	25°	1473.3	1451.2	1164.7	706.1	469.9	370.9	329.5	310.3	295.0	278.6
1679.9	27.5°	1645.9	1606.3	1193.0	654.5	431.4	340.3	305.7	284.2	266.7	253.1
1891.1	30°	1838.5	1773.3	1217.9	623.4	396.3	312.0	274.6	253.1	236.7	227.0
2080.8	32.5°	2020.8	1932.4	1234.3	609.8	364.6	279.7	240.6	217.4	205.0	202.1
2266.5	35°	2192.9	2076.3	1232.6	596.8	336.3	247.4	207.2	183.4	173.8	175.5
2466.4	37.5°	2391.1	2229.7	1220.7	576.4	313.1	218.0	178.4	157.4	148.9	149.5
2709.3	40°	2621.5	2406.9	1213.4	537.9	287.6	190.8	154.6	137.6	131.4	129.1
2965.2	42.5°	2867.2	2578.5	1214.5	494.3	255.9	166.5	138.2	124.0	118.3	116.6
3250.0	45°	3114.1	2742.1	1216.2	449.0	222.5	147.8	126.3	114.4	111.0	108.7
3538.8	47.5°	3346.2	2881.4	1184.5	400.3	189.7	133.6	116.6	108.7	105.9	103.0
3828.6	50°	3562.5	2974.3	1108.1	343.7	163.6	122.3	109.3	103.6	100.8	98.0
4091.4	52.5°	3730.7	2989.0	981.8	285.4	145.5	113.8	104.7	99.7	96.3	93.4
4303.7	55°	3805.4	2896.7	802.3	231.0	131.4	106.4	100.2	95.1	91.2	88.3
4470.7	57.5°	3786.2	2702.5	625.7	185.7	117.8	99.1	94.6	91.2	86.6	82.1
4606.0	60°	3691.6	2442.6	471.6	154.6	105.3	91.2	88.3	85.5	79.3	72.5
4658.1	62.5°	3528.0	2115.9	336.3	128.0	91.7	82.1	81.0	78.7	69.6	57.2
4581.1	65°	3277.7	1719.0	226.5	106.4	78.7	71.9	72.5	68.5	56.6	42.5
4299.2	67.5°	2912.0	1257.0	144.9	87.2	65.7	60.0	60.6	58.3	48.1	36.2
3764.7	70°	2446.0	832.3	94.6	66.2	52.7	46.4	49.8	50.4	40.8	29.4
2889.3	72.5°	1793.2	491.5	66.2	49.3	38.5	32.3	40.8	41.9	32.8	22.1
1738.2	75°	1022.0	233.3	49.8	35.7	23.8	22.6	31.7	31.7	22.6	14.7
752.5	77.5°	429.2	97.4	35.1	23.2	13.6	13.0	21.5	19.8	11.3	6.8
183.4	80°	124.0	43.6	18.7	11.3	5.7	5.1	8.5	6.2	2.8	1.1
69.6	82.5°	48.7	19.3	7.4	4.5	2.3	2.3	1.1	0.0	0.0	0.0
39.6	85°	28.9	7.9	3.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	7.4	1.7	1.1	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>
982.4
975.6
933.7
814.2
646.6
504.5
422.4
365.2
329.0
302.9
276.9
250.3
225.3
203.8
175.5
151.7
128.5
116.1
108.7
103.0
98.0
92.9
87.8
81.5
71.3
56.1
41.3
34.5
28.3
20.9
13.6
6.8
1.1
0.0
0.0
0.0
0.0

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