

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: P946338

Luminaire Tested: **GALN-SB2A-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

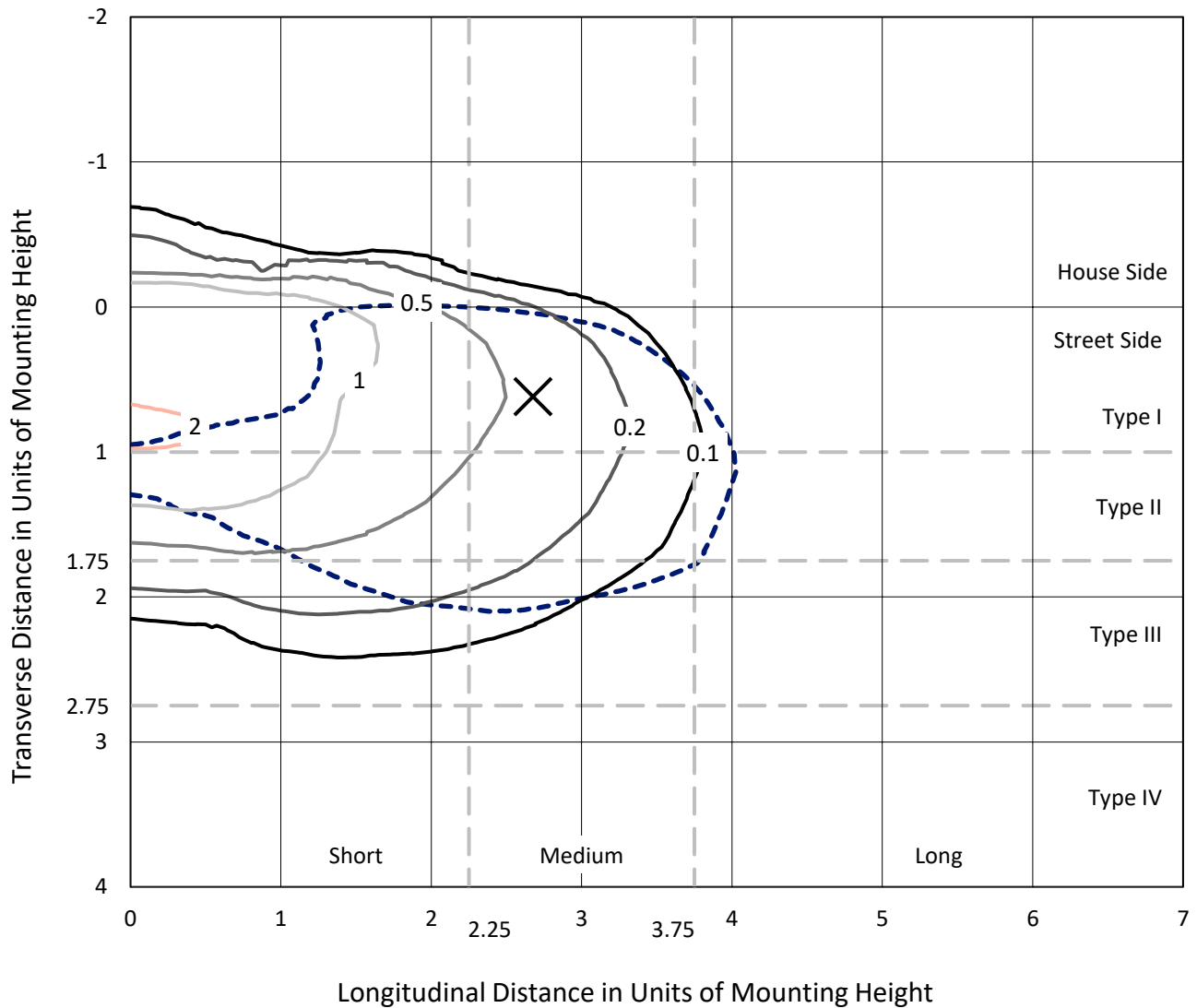
Lumens per Lamp: N/A  
Luminaire Lumens: 7468 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

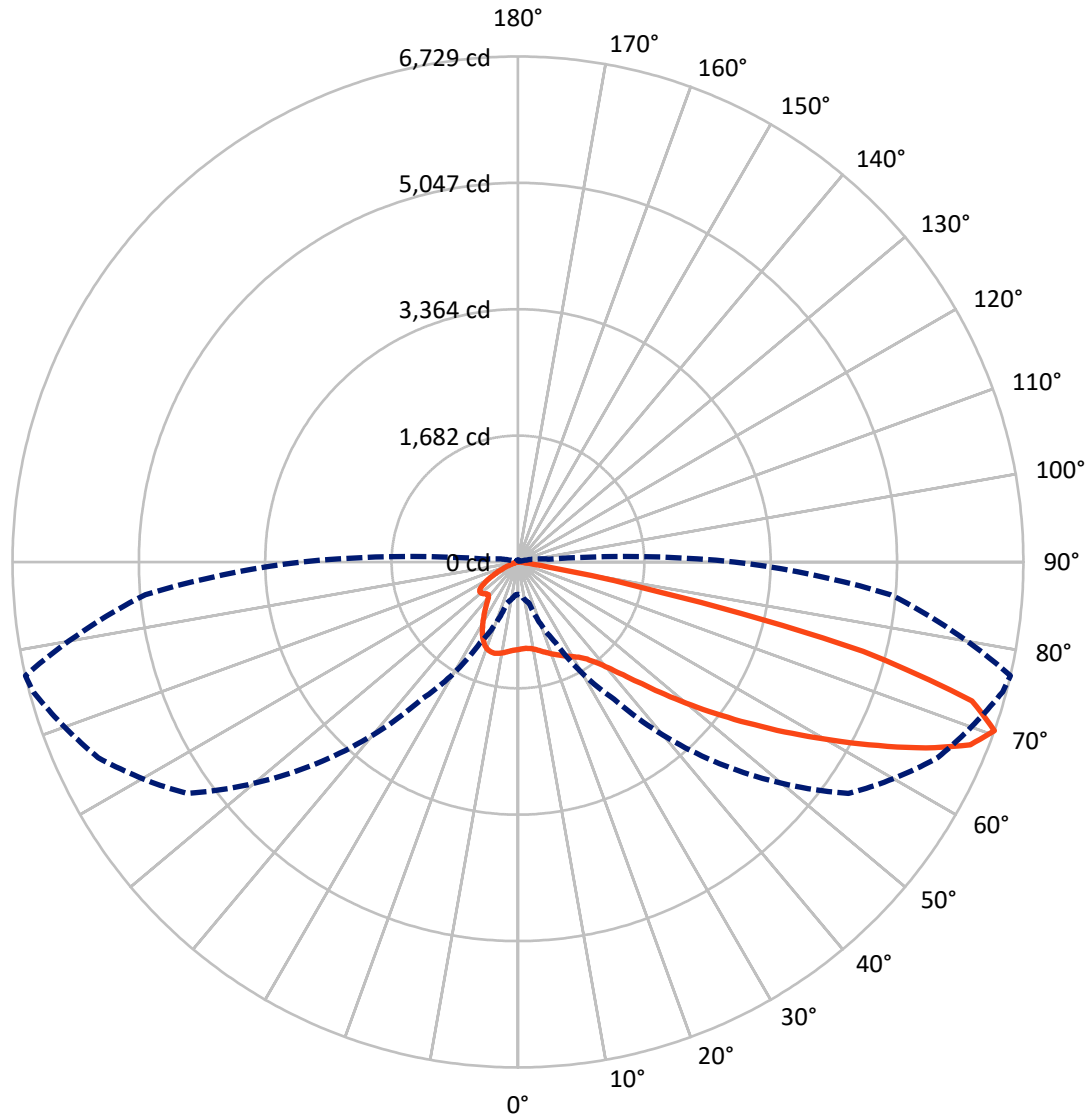
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	787.2	0.0	787.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6680.8	0.0	6680.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7468.0	0.0	7468.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	1.3
10°-20°	238.3	3.2
20°-30°	368.6	4.9
30°-40°	668.9	9.0
40°-50°	1262.6	16.9
50°-60°	1824.3	24.4
60°-70°	1942.0	26.0
70°-80°	1029.1	13.8
80°-90°	33.8	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°	7468.0	100.0
0°-180°	7468.0	100.0

**Coefficient of Utilization**



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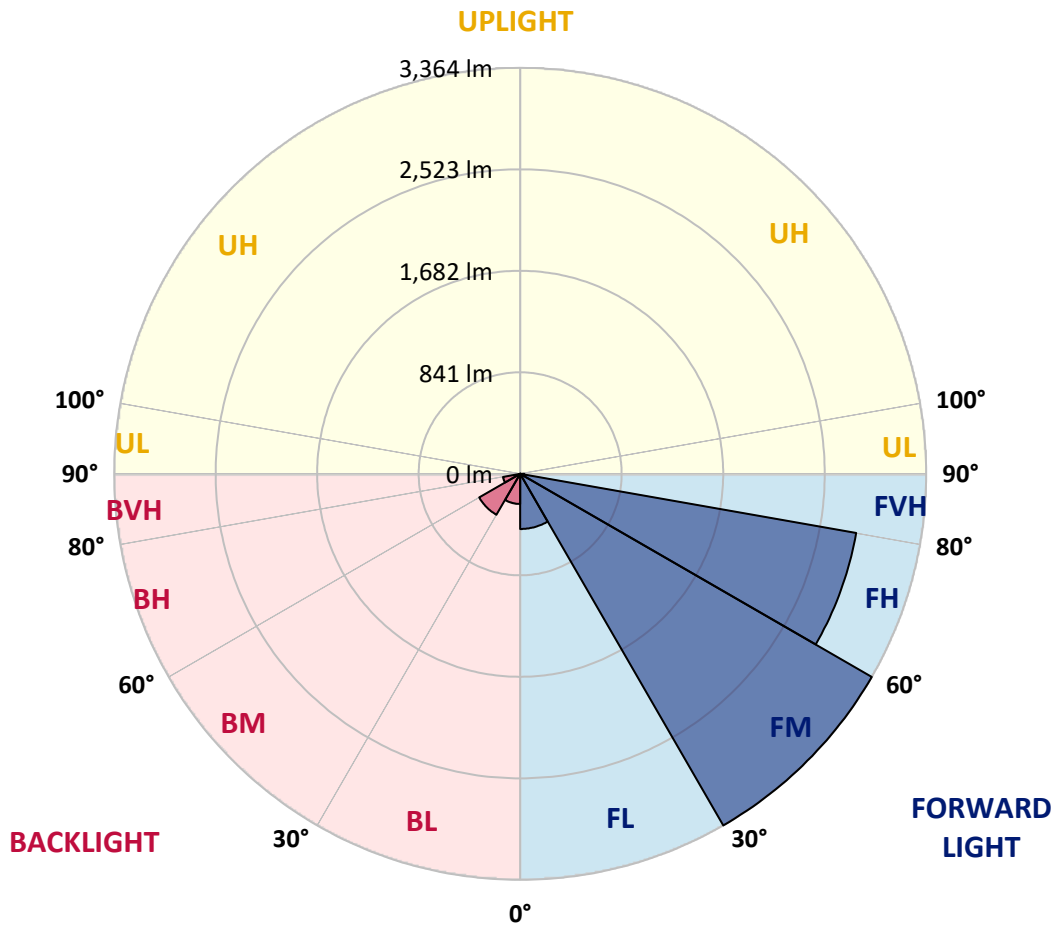
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.2	6.1			
FM (30°-60°)	3363.9	45.0			
FH (60°-80°)	2826.7	37.9			G2/5000
FVH (80°-90°)	32.9	0.4			G1/100
BL (0°-30°)	250.1	3.3	B1/500		
BM (30°-60°)	391.9	5.2	B1/1000		
BH (60°-80°)	144.3	1.9	B1/500		G1/500
BVH (80°-90°)	0.9	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9
2.5°	1093.7	1103.6	1102.1	1108.8	1111.1	1120.5	1130.0	1142.7	1156.9	1156.4	
5°	1031.9	1041.8	1044.1	1053.1	1064.4	1079.0	1098.4	1123.8	1150.3	1154.5	
7.5°	958.8	969.2	975.3	993.2	1014.0	1044.1	1075.7	1113.0	1156.9	1163.0	
10°	885.7	895.1	903.1	928.6	961.6	1006.4	1057.8	1111.6	1170.5	1179.5	
12.5°	840.4	849.4	858.3	880.5	921.5	976.2	1046.0	1118.2	1193.2	1205.9	
15°	824.4	832.4	839.5	859.3	897.5	959.7	1043.7	1131.9	1221.9	1238.9	
17.5°	826.7	831.0	835.7	850.8	888.0	952.2	1047.9	1155.4	1255.9	1271.0	
20°	840.4	842.8	843.2	853.6	886.6	951.2	1056.4	1178.1	1288.0	1308.2	
22.5°	857.9	858.8	857.9	864.9	895.6	958.3	1067.7	1205.4	1323.8	1342.7	
25°	939.4	921.5	898.9	885.2	910.7	972.0	1084.7	1242.2	1362.9	1381.3	
27.5°	1192.7	1141.3	1060.2	969.2	941.8	991.8	1108.3	1279.5	1402.6	1419.1	
30°	1603.9	1536.5	1398.8	1193.6	1041.8	1033.3	1138.9	1316.7	1444.5	1462.5	
32.5°	2016.1	1999.6	1840.7	1556.8	1266.7	1125.7	1189.9	1367.2	1500.2	1514.3	
35°	2433.0	2399.5	2269.4	1988.8	1613.4	1313.9	1274.8	1433.2	1573.3	1589.3	
37.5°	2752.3	2732.0	2651.4	2420.3	2024.6	1604.4	1420.0	1535.6	1679.4	1697.3	
40°	3034.3	3024.9	2997.5	2845.2	2484.4	1984.5	1645.9	1694.0	1826.5	1847.8	
42.5°	3256.0	3278.2	3293.7	3251.3	2958.4	2418.4	1949.6	1916.6	2031.7	2053.4	
45°	3482.8	3490.4	3553.1	3614.4	3429.1	2872.1	2292.0	2177.4	2286.8	2313.7	
47.5°	3628.6	3658.7	3769.1	3877.1	3824.7	3322.0	2659.9	2485.4	2582.5	2633.0	
50°	3639.4	3696.5	3848.3	4036.5	4112.9	3750.2	3059.8	2836.3	2939.5	2995.2	
52.5°	3458.8	3547.4	3782.8	4058.2	4268.5	4112.9	3473.4	3187.1	3319.7	3392.3	
55°	2651.9	2767.9	3536.1	3940.3	4274.7	4387.8	3876.2	3552.6	3743.2	3825.2	
57.5°	2310.4	2368.9	2780.1	3735.6	4161.0	4498.7	4240.2	3900.7	4203.9	4305.8	
60°	1922.3	1999.1	2331.6	3400.8	4006.8	4509.5	4561.9	4349.6	4703.4	4818.0	
62.5°	1306.4	1389.8	1720.4	2825.4	3796.0	4504.3	4825.5	4811.8	5258.4	5381.5	
65°	809.3	861.6	1079.5	2307.1	3501.2	4510.0	5101.4	5373.0	5844.2	5969.1	
67.5°	639.5	663.6	777.2	1771.4	2993.3	4382.7	5376.8	5900.8	6395.5	6494.5	
70°	429.6	444.3	565.5	1187.5	2226.9	3795.0	5371.6	6165.8	6679.4	6728.9	
72.5°	226.4	237.7	330.6	549.9	1345.0	2697.6	4527.9	5848.9	6396.9	6322.4	
75°	113.2	132.1	222.6	279.2	574.4	1504.4	2811.7	4611.4	5034.9	4746.3	
77.5°	85.8	103.8	183.9	183.9	200.0	506.5	1190.8	2515.1	2319.8	1931.7	
80°	54.7	70.7	160.8	139.1	83.5	128.7	310.3	704.6	492.8	374.9	
82.5°	32.1	46.2	133.9	92.0	46.7	47.6	87.7	150.0	127.8	99.5	
85°	12.7	30.2	92.0	36.3	18.4	11.8	26.4	32.1	26.4	19.8	
87.5°	0.0	7.1	16.0	0.0	1.4	0.9	1.9	2.4	2.4	1.9	
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°
1164.9	0°	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9
1165.8	2.5°	1170.1	1171.0	1173.8	1174.3	1167.7	1159.2	1155.9	1154.5	1148.8	1148.4
1173.4	5°	1184.2	1188.5	1184.2	1171.9	1142.7	1101.7	1070.6	1045.1	1022.0	1014.9
1199.3	7.5°	1212.5	1216.8	1204.0	1155.9	1082.3	1000.8	927.2	875.3	828.6	811.2
1230.9	10°	1253.1	1258.7	1218.6	1121.5	991.3	860.2	735.7	648.0	579.6	551.8
1273.8	12.5°	1304.0	1306.4	1226.7	1069.1	872.9	685.7	509.3	415.5	354.6	332.0
1325.7	15°	1360.1	1356.8	1227.6	997.9	711.7	484.8	332.5	273.1	248.5	241.0
1377.6	17.5°	1419.1	1405.4	1208.7	895.1	534.8	331.5	246.7	232.5	228.3	226.4
1429.0	20°	1477.1	1446.4	1174.3	760.7	383.9	247.6	224.0	219.8	217.4	216.5
1480.9	22.5°	1529.9	1477.5	1115.4	604.6	278.7	218.8	211.8	208.0	203.7	201.8
1531.3	25°	1581.3	1495.5	1032.4	458.9	223.1	204.7	199.0	191.9	186.3	183.9
1585.5	27.5°	1631.3	1506.8	928.6	339.6	199.0	191.5	181.1	171.2	166.9	166.0
1643.6	30°	1684.6	1510.6	810.7	253.3	184.4	175.0	159.9	148.6	146.2	146.7
1721.8	32.5°	1749.7	1516.2	691.8	207.5	172.1	155.2	137.2	125.4	123.6	125.4
1836.0	35°	1827.5	1527.5	577.2	191.0	161.3	134.9	115.5	105.6	103.8	105.2
1982.2	37.5°	1933.1	1545.9	470.2	187.7	152.3	117.9	97.2	89.1	89.1	89.6
2161.4	40°	2073.7	1595.0	374.5	185.3	147.6	105.2	82.1	78.8	80.2	81.1
2389.6	42.5°	2244.9	1699.2	309.8	182.5	142.4	99.5	74.5	73.1	75.5	76.4
2663.2	45°	2436.8	1831.3	287.2	177.8	137.7	103.3	71.2	69.3	72.2	72.6
2969.7	47.5°	2635.3	1960.5	284.4	172.6	133.0	108.9	70.3	66.0	69.3	69.8
3297.0	50°	2836.3	2044.9	287.2	164.6	125.4	108.9	70.7	62.7	65.6	67.0
3636.6	52.5°	3038.6	2083.6	285.3	147.1	112.2	102.3	70.7	59.9	62.7	63.7
4003.5	55°	3234.8	2076.0	256.6	121.2	95.3	90.5	68.9	57.5	59.4	59.9
4350.1	57.5°	3389.9	1970.9	203.3	94.3	77.3	75.5	62.7	54.7	56.1	55.6
4668.0	60°	3471.0	1739.8	145.3	72.6	60.8	59.4	55.2	50.9	51.9	49.5
4937.3	62.5°	3472.0	1434.2	97.2	57.5	48.6	47.2	47.2	45.7	44.8	40.1
5145.7	65°	3397.9	1095.1	64.6	45.7	39.1	36.8	39.6	39.1	35.8	29.2
5209.4	67.5°	3230.0	717.8	49.0	35.8	30.2	28.8	31.6	33.0	30.7	24.5
4977.4	70°	2884.8	417.8	40.6	27.8	22.6	21.2	25.5	28.3	25.5	19.8
4254.4	72.5°	2396.2	225.4	33.0	20.8	15.6	14.1	20.3	23.1	20.3	14.6
2729.7	75°	1554.9	120.7	25.5	13.7	8.0	9.0	15.1	17.0	14.1	9.4
801.3	77.5°	522.1	53.3	16.0	6.6	3.8	3.8	9.0	10.4	6.6	3.3
145.7	80°	116.5	22.2	6.6	2.8	1.4	1.4	1.9	1.9	0.9	0.0
44.8	82.5°	38.2	9.0	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
11.3	85°	14.6	3.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	87.5°	5.7	0.5	0.0	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>
1164.9
1149.3
1010.7
804.1
540.0
324.9
241.0
225.9
215.5
201.4
183.0
165.1
146.7
125.0
104.7
89.1
81.1
76.4
73.1
70.3
67.4
63.7
59.9
55.6
49.0
38.7
28.3
24.1
18.9
14.1
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