

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: P946086

Luminaire Tested: **GALN-SB1D-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946086  
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-SB1D-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

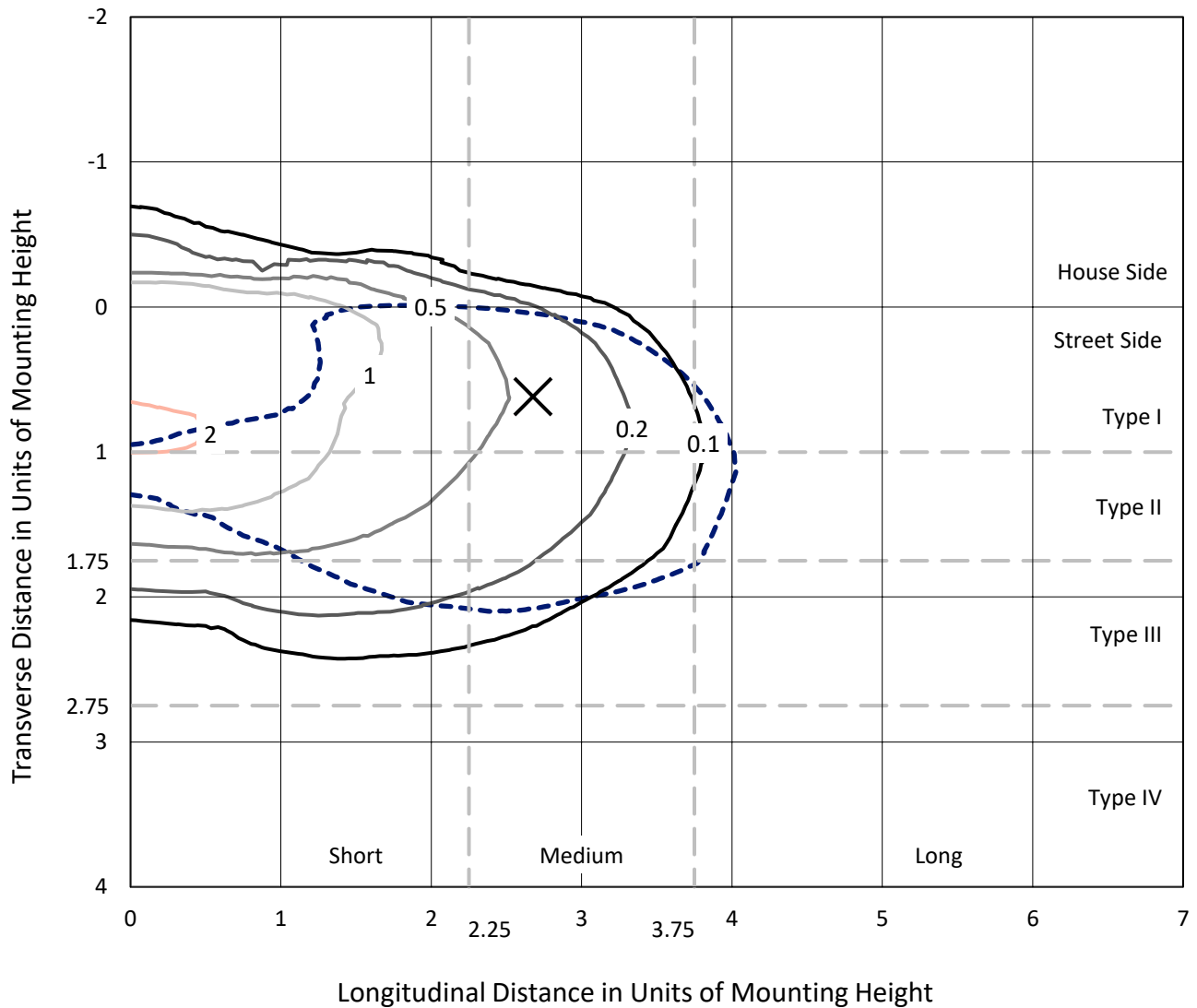
Lumens per Lamp: N/A  
Luminaire Lumens: 7615 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

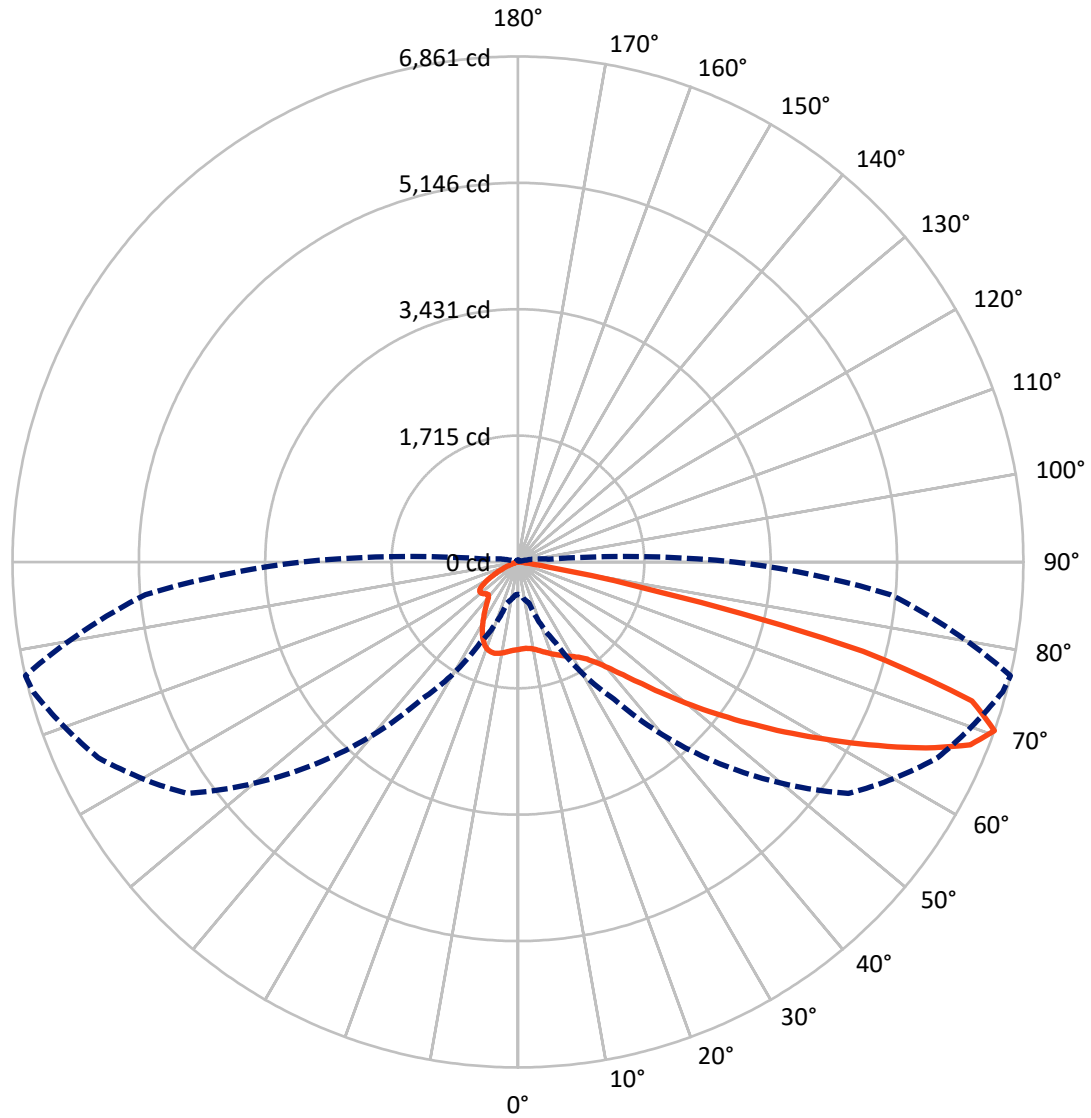
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P946086  
CATALOG NUMBER: GALN-SB1D-830-U-T3R-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SB1D-830-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	802.7	0.0	802.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6812.3	0.0	6812.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7615.0	0.0	7615.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	1.3
10°-20°	243.0	3.2
20°-30°	375.9	4.9
30°-40°	682.0	9.0
40°-50°	1287.4	16.9
50°-60°	1860.3	24.4
60°-70°	1980.2	26.0
70°-80°	1049.4	13.8
80°-90°	34.5	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°	7615.0	100.0
0°-180°	7615.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P946086

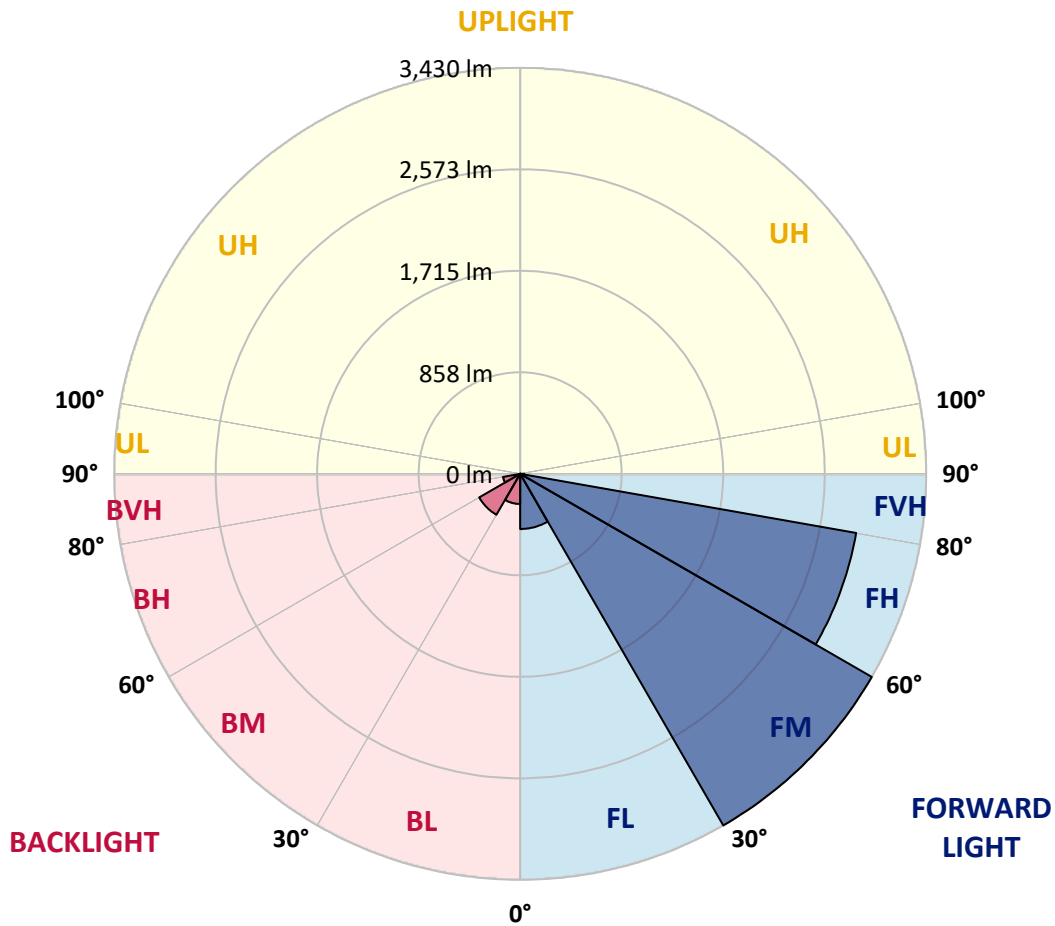
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.2	6.1			
FM (30°-60°)	3430.1	45.0			
FH (60°-80°)	2882.4	37.9			G2/5000
FVH (80°-90°)	33.5	0.4			G1/100
BL (0°-30°)	255.0	3.3	B1/500		
BM (30°-60°)	399.6	5.2	B1/1000		
BH (60°-80°)	147.2	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



REPORT NUMBER: P946086  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1115.2	1125.3	1123.8	1130.6	1133.0	1142.6	1152.2	1165.2	1179.6	1179.1
5°	1052.2	1062.3	1064.7	1073.8	1085.4	1100.3	1120.0	1146.0	1172.9	1177.2
7.5°	977.7	988.2	994.5	1012.8	1033.9	1064.7	1096.9	1134.9	1179.6	1185.9
10°	903.1	912.7	920.9	946.9	980.5	1026.2	1078.6	1133.5	1193.6	1202.7
12.5°	856.9	866.1	875.2	897.8	939.7	995.4	1066.6	1140.2	1216.7	1229.6
15°	840.6	848.8	856.0	876.2	915.1	978.6	1064.2	1154.1	1246.0	1263.3
17.5°	843.0	847.3	852.1	867.5	905.5	970.9	1068.5	1178.2	1280.6	1296.0
20°	856.9	859.4	859.8	870.4	904.1	970.0	1077.2	1201.3	1313.3	1334.0
22.5°	874.7	875.7	874.7	882.0	913.2	977.2	1088.7	1229.2	1349.9	1369.1
25°	957.9	939.7	916.6	902.6	928.6	991.1	1106.1	1266.7	1389.8	1408.5
27.5°	1216.2	1163.8	1081.0	988.2	960.3	1011.3	1130.1	1304.7	1430.2	1447.0
30°	1635.5	1566.7	1426.3	1217.1	1062.3	1053.6	1161.4	1342.6	1473.0	1491.2
32.5°	2055.8	2039.0	1876.9	1587.4	1291.7	1147.9	1213.3	1394.1	1529.7	1544.1
35°	2480.9	2446.8	2314.1	2027.9	1645.1	1339.8	1299.9	1461.4	1604.3	1620.6
37.5°	2806.5	2785.8	2703.6	2467.9	2064.5	1636.0	1448.0	1565.8	1712.5	1730.7
40°	3094.1	3084.4	3056.5	2901.2	2533.3	2023.6	1678.3	1727.4	1862.5	1884.1
42.5°	3320.1	3342.7	3358.5	3315.3	3016.6	2466.0	1988.0	1954.3	2071.7	2093.8
45°	3551.4	3559.1	3623.0	3685.6	3496.6	2928.6	2337.1	2220.3	2331.8	2359.3
47.5°	3700.0	3730.8	3843.3	3953.4	3900.0	3387.4	2712.2	2534.3	2633.4	2684.8
50°	3711.0	3769.2	3924.1	4116.0	4193.9	3824.1	3120.0	2892.1	2997.4	3054.1
52.5°	3526.9	3617.3	3857.2	4138.1	4352.6	4193.9	3541.8	3249.9	3385.0	3459.1
55°	2704.1	2822.4	3605.7	4017.9	4358.8	4474.2	3952.4	3622.6	3816.8	3900.5
57.5°	2355.9	2415.5	2834.9	3809.1	4242.9	4587.2	4323.7	3977.5	4286.7	4390.5
60°	1960.1	2038.5	2377.5	3467.7	4085.7	4598.3	4651.7	4435.3	4795.9	4912.8
62.5°	1332.1	1417.2	1754.3	2881.0	3870.7	4593.0	4920.5	4906.5	5361.9	5487.5
65°	825.2	878.6	1100.8	2352.5	3570.1	4598.8	5201.8	5478.8	5959.2	6086.6
67.5°	652.1	676.6	792.5	1806.2	3052.2	4468.9	5482.6	6016.9	6521.4	6622.4
70°	438.1	453.0	576.6	1210.9	2270.8	3869.7	5477.4	6287.2	6810.9	6861.4
72.5°	230.8	242.4	337.1	560.7	1371.5	2750.7	4617.0	5964.0	6522.8	6446.8
75°	115.4	134.6	227.0	284.7	585.7	1534.0	2867.1	4702.2	5134.0	4839.7
77.5°	87.5	105.8	187.5	187.5	203.9	516.5	1214.3	2564.6	2365.5	1969.7
80°	55.8	72.1	164.0	141.9	85.1	131.3	316.4	718.5	502.5	382.3
82.5°	32.7	47.1	136.6	93.8	47.6	48.6	89.4	152.9	130.3	101.5
85°	13.0	30.8	93.8	37.0	18.8	12.0	26.9	32.7	26.9	20.2
87.5°	0.0	7.2	16.4	0.0	1.4	1.0	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

REPORT NUMBER: P946086  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1187.8	0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
1188.8	2.5°	1193.1	1194.1	1196.9	1197.4	1190.7	1182.0	1178.7	1177.2	1171.5	1171.0
1196.5	5°	1207.5	1211.8	1207.5	1195.0	1165.2	1123.4	1091.6	1065.7	1042.1	1034.9
1222.9	7.5°	1236.4	1240.7	1227.7	1178.7	1103.6	1020.5	945.4	892.5	844.9	827.1
1255.1	10°	1277.7	1283.5	1242.6	1143.6	1010.8	877.1	750.2	660.7	591.0	562.6
1298.9	12.5°	1329.7	1332.1	1250.8	1090.2	890.1	699.2	519.4	423.7	361.6	338.5
1351.8	15°	1386.9	1383.5	1251.8	1017.6	725.7	494.4	339.0	278.4	253.4	245.7
1404.7	17.5°	1447.0	1433.1	1232.5	912.7	545.3	338.1	251.5	237.1	232.8	230.8
1457.1	20°	1506.2	1474.9	1197.4	775.7	391.4	252.5	228.4	224.1	221.7	220.7
1510.0	22.5°	1560.0	1506.6	1137.3	616.5	284.2	223.1	215.9	212.1	207.7	205.8
1561.5	25°	1612.4	1524.9	1052.7	467.9	227.5	208.7	202.9	195.7	190.0	187.5
1616.8	27.5°	1663.4	1536.4	946.9	346.2	202.9	195.2	184.7	174.6	170.2	169.3
1675.9	30°	1717.7	1540.3	826.7	258.2	188.0	178.4	163.0	151.5	149.1	149.6
1755.7	32.5°	1784.1	1546.1	705.5	211.6	175.5	158.2	139.9	127.9	126.0	127.9
1872.1	35°	1863.5	1557.6	588.6	194.8	164.5	137.5	117.8	107.7	105.8	107.2
2021.2	37.5°	1971.2	1576.4	479.4	191.4	155.3	120.2	99.1	90.9	90.9	91.4
2203.9	40°	2114.5	1626.4	381.8	189.0	150.5	107.2	83.7	80.3	81.8	82.7
2436.7	42.5°	2289.0	1732.7	315.9	186.1	145.2	101.5	76.0	74.5	76.9	77.9
2715.6	45°	2484.8	1867.3	292.9	181.3	140.4	105.3	72.6	70.7	73.6	74.1
3028.2	47.5°	2687.2	1999.1	290.0	176.0	135.6	111.1	71.7	67.3	70.7	71.2
3361.9	50°	2892.1	2085.1	292.9	167.8	127.9	111.1	72.1	64.0	66.8	68.3
3708.2	52.5°	3098.4	2124.6	290.9	150.0	114.5	104.4	72.1	61.1	64.0	64.9
4082.3	55°	3298.4	2116.9	261.6	123.6	97.1	92.3	70.2	58.7	60.6	61.1
4435.7	57.5°	3456.6	2009.6	207.3	96.2	78.9	76.9	64.0	55.8	57.2	56.7
4759.9	60°	3539.4	1774.0	148.1	74.1	62.0	60.6	56.3	51.9	52.9	50.5
5034.5	62.5°	3540.3	1462.4	99.1	58.7	49.5	48.1	48.1	46.6	45.7	40.9
5247.0	65°	3464.8	1116.6	65.9	46.6	39.9	37.5	40.4	39.9	36.5	29.8
5311.9	67.5°	3293.6	731.9	50.0	36.5	30.8	29.3	32.2	33.7	31.3	25.0
5075.3	70°	2941.6	426.1	41.4	28.4	23.1	21.6	26.0	28.9	26.0	20.2
4338.1	72.5°	2443.4	229.9	33.7	21.2	15.9	14.4	20.7	23.6	20.7	14.9
2783.4	75°	1585.5	123.1	26.0	13.9	8.2	9.1	15.4	17.3	14.4	9.6
817.0	77.5°	532.3	54.3	16.4	6.7	3.8	3.8	9.1	10.6	6.7	3.4
148.6	80°	118.8	22.6	6.7	2.9	1.4	1.4	1.9	1.9	1.0	0.0
45.7	82.5°	39.0	9.1	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
11.5	85°	14.9	3.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	87.5°	5.8	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>
1187.8
1171.9
1030.6
819.9
550.6
331.3
245.7
230.3
219.8
205.3
186.6
168.3
149.6
127.4
106.8
90.9
82.7
77.9
74.5
71.7
68.8
64.9
61.1
56.7
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