

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: P948018

Luminaire Tested: **GALN-SB3A-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948018
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-SB3A-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 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: 8120 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

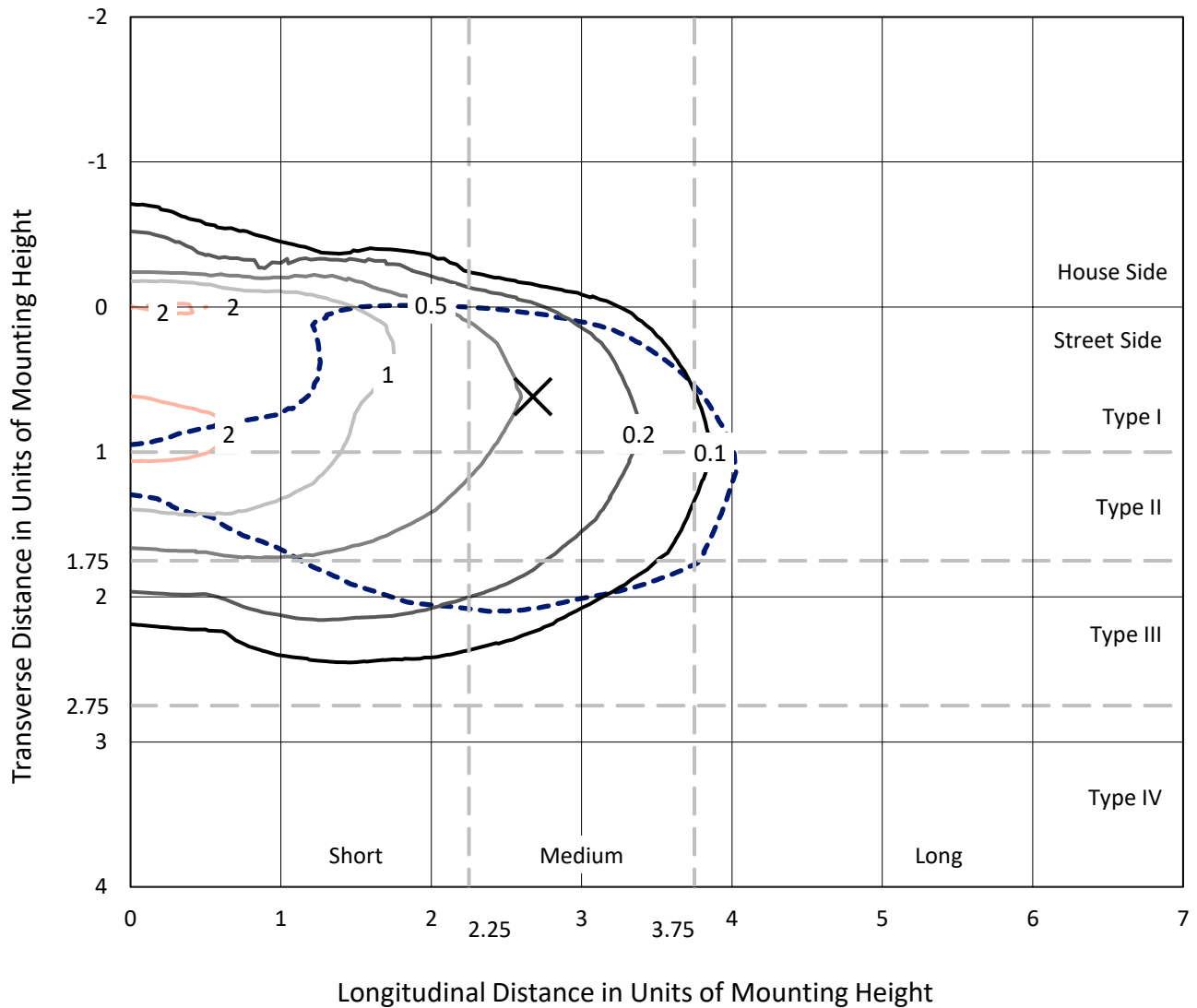
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

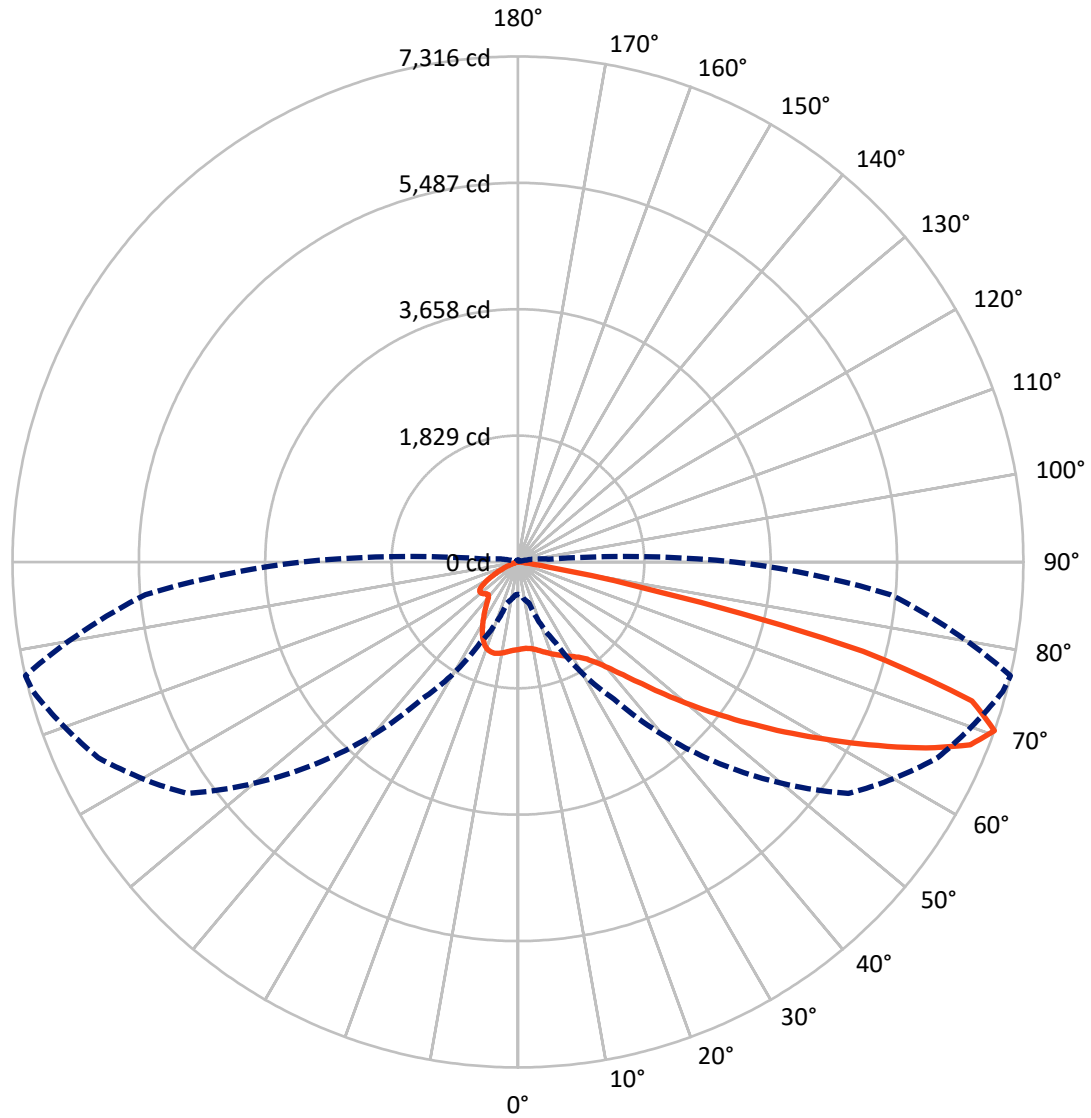
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
House Side	Lumens	856.0	0.0	856.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7264.0	0.0	7264.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	8120.0	0.0	8120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.3
10°-20°	259.1	3.2
20°-30°	400.8	4.9
30°-40°	727.3	9.0
40°-50°	1372.8	16.9
50°-60°	1983.6	24.4
60°-70°	2111.5	26.0
70°-80°	1119.0	13.8
80°-90°	36.7	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°	8120.0	100.0
0°-180°	8120.0	100.0

Coefficient of Utilization



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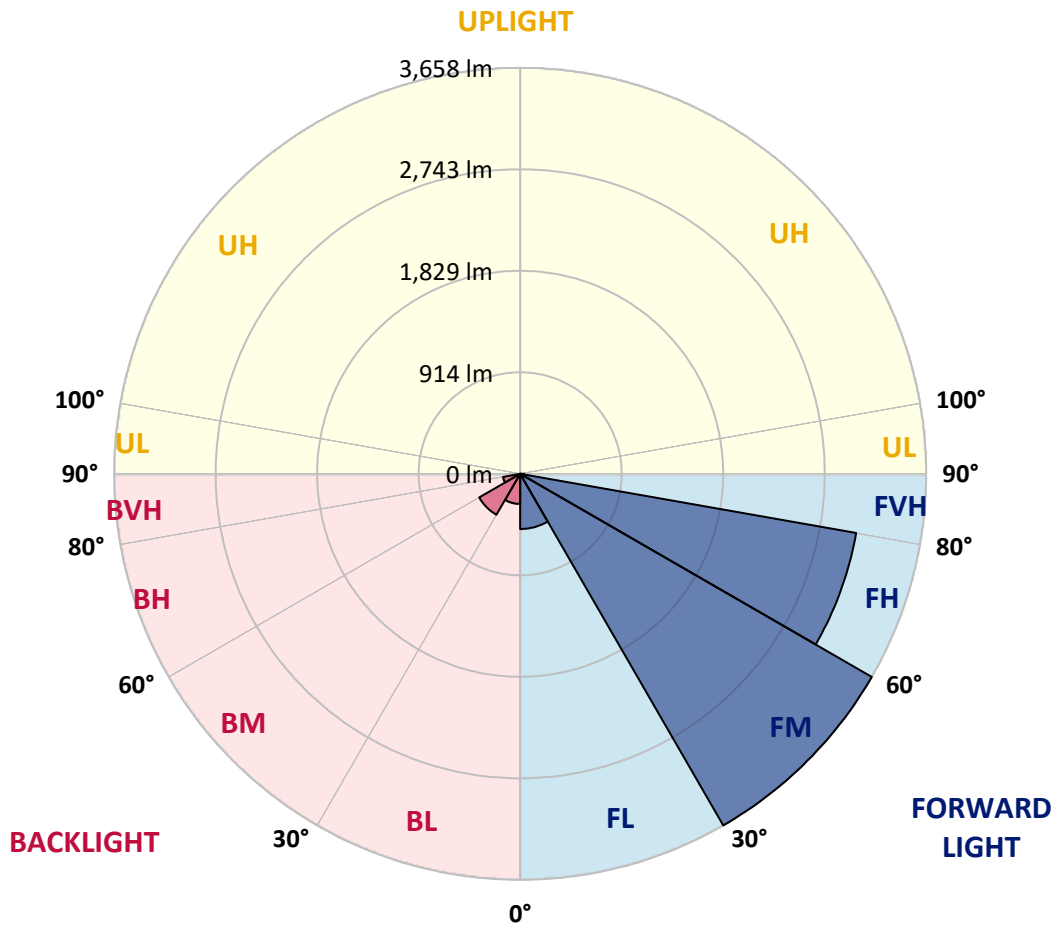
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.1	6.1			
FM (30°-60°)	3657.6	45.0			
FH (60°-80°)	3073.5	37.9			G2/5000
FVH (80°-90°)	35.8	0.4			G1/100
BL (0°-30°)	272.0	3.3	B1/500		
BM (30°-60°)	426.1	5.2	B1/1000		
BH (60°-80°)	156.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1189.1	1199.9	1198.4	1205.6	1208.1	1218.4	1228.6	1242.5	1257.9	1257.3
5°	1122.0	1132.7	1135.3	1145.0	1157.4	1173.2	1194.3	1222.0	1250.7	1255.3
7.5°	1042.5	1053.8	1060.4	1079.9	1102.5	1135.3	1169.7	1210.2	1257.9	1264.5
10°	963.0	973.3	982.0	1009.7	1045.6	1094.3	1150.2	1208.6	1272.7	1282.5
12.5°	913.8	923.5	933.3	957.4	1002.0	1061.5	1137.4	1215.8	1297.3	1311.2
15°	896.3	905.1	912.8	934.3	975.8	1043.5	1134.8	1230.7	1328.6	1347.1
17.5°	898.9	903.5	908.7	925.1	965.6	1035.3	1139.4	1256.3	1365.5	1381.9
20°	913.8	916.3	916.9	928.1	964.0	1034.3	1148.6	1280.9	1400.4	1422.5
22.5°	932.8	933.8	932.8	940.4	973.8	1042.0	1160.9	1310.7	1439.4	1459.9
25°	1021.5	1002.0	977.4	962.5	990.2	1056.8	1179.4	1350.7	1481.9	1501.9
27.5°	1296.8	1240.9	1152.7	1053.8	1024.0	1078.4	1205.0	1391.2	1525.0	1543.0
30°	1744.0	1670.6	1520.9	1297.9	1132.7	1123.5	1238.4	1431.7	1570.7	1590.1
32.5°	2192.1	2174.2	2001.4	1692.7	1377.3	1224.0	1293.8	1486.6	1631.2	1646.5
35°	2645.4	2609.0	2467.5	2162.4	1754.2	1428.6	1386.1	1558.3	1710.6	1728.1
37.5°	2992.6	2970.6	2882.9	2631.6	2201.4	1744.5	1544.0	1669.6	1826.0	1845.5
40°	3299.2	3289.0	3259.2	3093.6	2701.3	2157.8	1789.6	1841.9	1986.0	2009.1
42.5°	3540.3	3564.4	3581.3	3535.1	3216.7	2629.5	2119.8	2083.9	2209.1	2232.7
45°	3786.9	3795.1	3863.3	3930.0	3728.4	3122.8	2492.1	2367.5	2486.5	2515.7
47.5°	3945.4	3978.2	4098.2	4215.6	4158.7	3612.0	2892.1	2702.4	2808.0	2862.9
50°	3957.1	4019.2	4184.3	4388.9	4472.0	4077.6	3326.9	3083.9	3196.2	3256.7
52.5°	3760.7	3857.2	4113.0	4412.5	4641.2	4472.0	3776.6	3465.4	3609.5	3688.4
55°	2883.4	3009.5	3844.8	4284.3	4647.9	4770.9	4214.6	3862.8	4070.0	4159.2
57.5°	2512.1	2575.7	3022.9	4061.8	4524.3	4891.4	4610.4	4241.2	4570.9	4681.7
60°	2090.1	2173.7	2535.2	3697.7	4356.6	4903.2	4960.1	4729.4	5114.0	5238.6
62.5°	1420.4	1511.2	1870.6	3072.1	4127.4	4897.6	5246.8	5231.9	5717.5	5851.4
65°	879.9	936.9	1173.8	2508.5	3806.9	4903.7	5546.8	5842.1	6354.4	6490.3
67.5°	695.3	721.5	845.1	1926.0	3254.6	4765.3	5846.2	6415.9	6953.8	7061.5
70°	467.1	483.0	614.8	1291.2	2421.4	4126.4	5840.6	6704.1	7262.5	7316.4
72.5°	246.1	258.4	359.5	597.9	1462.5	2933.1	4923.2	6359.5	6955.4	6874.4
75°	123.1	143.6	242.0	303.6	624.6	1635.8	3057.2	5014.0	5474.5	5160.6
77.5°	93.3	112.8	200.0	200.0	217.4	550.7	1294.8	2734.7	2522.4	2100.4
80°	59.5	76.9	174.9	151.3	90.8	140.0	337.4	766.1	535.9	407.7
82.5°	34.9	50.3	145.6	100.0	50.8	51.8	95.4	163.1	139.0	108.2
85°	13.8	32.8	100.0	39.5	20.0	12.8	28.7	34.9	28.7	21.5
87.5°	0.0	7.7	17.4	0.0	1.5	1.0	2.1	2.6	2.6	2.1
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°
1266.6	0°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
1267.6	2.5°	1272.2	1273.2	1276.3	1276.8	1269.7	1260.4	1256.8	1255.3	1249.1	1248.6
1275.8	5°	1287.6	1292.2	1287.6	1274.3	1242.5	1197.9	1164.0	1136.3	1111.2	1103.5
1304.0	7.5°	1318.4	1323.0	1309.1	1256.8	1176.8	1088.1	1008.1	951.7	901.0	882.0
1338.4	10°	1362.5	1368.6	1325.0	1219.4	1077.9	935.3	799.9	704.6	630.2	600.0
1385.0	12.5°	1417.8	1420.4	1333.7	1162.5	949.2	745.6	553.8	451.8	385.6	361.0
1441.4	15°	1478.9	1475.3	1334.8	1085.0	773.8	527.1	361.5	296.9	270.2	262.0
1497.8	17.5°	1543.0	1528.1	1314.3	973.3	581.5	360.5	268.2	252.8	248.2	246.1
1553.7	20°	1606.0	1572.7	1276.8	827.1	417.4	269.2	243.6	239.0	236.4	235.4
1610.1	22.5°	1663.5	1606.5	1212.7	657.4	303.1	237.9	230.2	226.1	221.5	219.5
1665.0	25°	1719.4	1626.0	1122.5	498.9	242.5	222.5	216.4	208.7	202.5	200.0
1724.0	27.5°	1773.7	1638.3	1009.7	369.2	216.4	208.2	196.9	186.1	181.5	180.5
1787.0	30°	1831.7	1642.4	881.5	275.4	200.5	190.2	173.8	161.5	159.0	159.5
1872.2	32.5°	1902.4	1648.6	752.3	225.6	187.2	168.7	149.2	136.4	134.3	136.4
1996.3	35°	1987.0	1660.9	627.6	207.7	175.4	146.7	125.6	114.9	112.8	114.4
2155.2	37.5°	2101.9	1680.9	511.2	204.1	165.6	128.2	105.6	96.9	96.9	97.4
2350.1	40°	2254.7	1734.2	407.1	201.5	160.5	114.4	89.2	85.6	87.2	88.2
2598.3	42.5°	2440.8	1847.6	336.9	198.4	154.9	108.2	81.0	79.5	82.0	83.1
2895.7	45°	2649.5	1991.1	312.3	193.3	149.7	112.3	77.4	75.4	78.5	79.0
3229.0	47.5°	2865.4	2131.6	309.2	187.7	144.6	118.5	76.4	71.8	75.4	75.9
3584.9	50°	3083.9	2223.4	312.3	179.0	136.4	118.5	76.9	68.2	71.3	72.8
3954.1	52.5°	3303.9	2265.5	310.2	160.0	122.0	111.3	76.9	65.1	68.2	69.2
4353.0	55°	3517.2	2257.3	279.0	131.8	103.6	98.5	74.9	62.6	64.6	65.1
4729.9	57.5°	3685.9	2142.9	221.0	102.6	84.1	82.0	68.2	59.5	61.0	60.5
5075.5	60°	3774.1	1891.7	157.9	79.0	66.1	64.6	60.0	55.4	56.4	53.8
5368.3	62.5°	3775.1	1559.4	105.6	62.6	52.8	51.3	51.3	49.7	48.7	43.6
5595.0	65°	3694.6	1190.7	70.3	49.7	42.6	40.0	43.1	42.6	39.0	31.8
5664.2	67.5°	3512.0	780.5	53.3	39.0	32.8	31.3	34.4	35.9	33.3	26.7
5411.9	70°	3136.7	454.3	44.1	30.3	24.6	23.1	27.7	30.8	27.7	21.5
4625.8	72.5°	2605.4	245.1	35.9	22.6	16.9	15.4	22.0	25.1	22.0	15.9
2968.0	75°	1690.6	131.3	27.7	14.9	8.7	9.7	16.4	18.5	15.4	10.3
871.2	77.5°	567.7	57.9	17.4	7.2	4.1	4.1	9.7	11.3	7.2	3.6
158.4	80°	126.7	24.1	7.2	3.1	1.5	1.5	2.1	2.1	1.0	0.0
48.7	82.5°	41.5	9.7	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
12.3	85°	15.9	3.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	6.2	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>
1266.6
1249.7
1098.9
874.3
587.1
353.3
262.0
245.6
234.3
219.0
199.0
179.5
159.5
135.9
113.8
96.9
88.2
83.1
79.5
76.4
73.3
69.2
65.1
60.5
53.3
42.0
30.8
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15.4
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