

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: P946947

Luminaire Tested: **GALN-SB2B-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946947
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-SB2B-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA 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: 6794 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

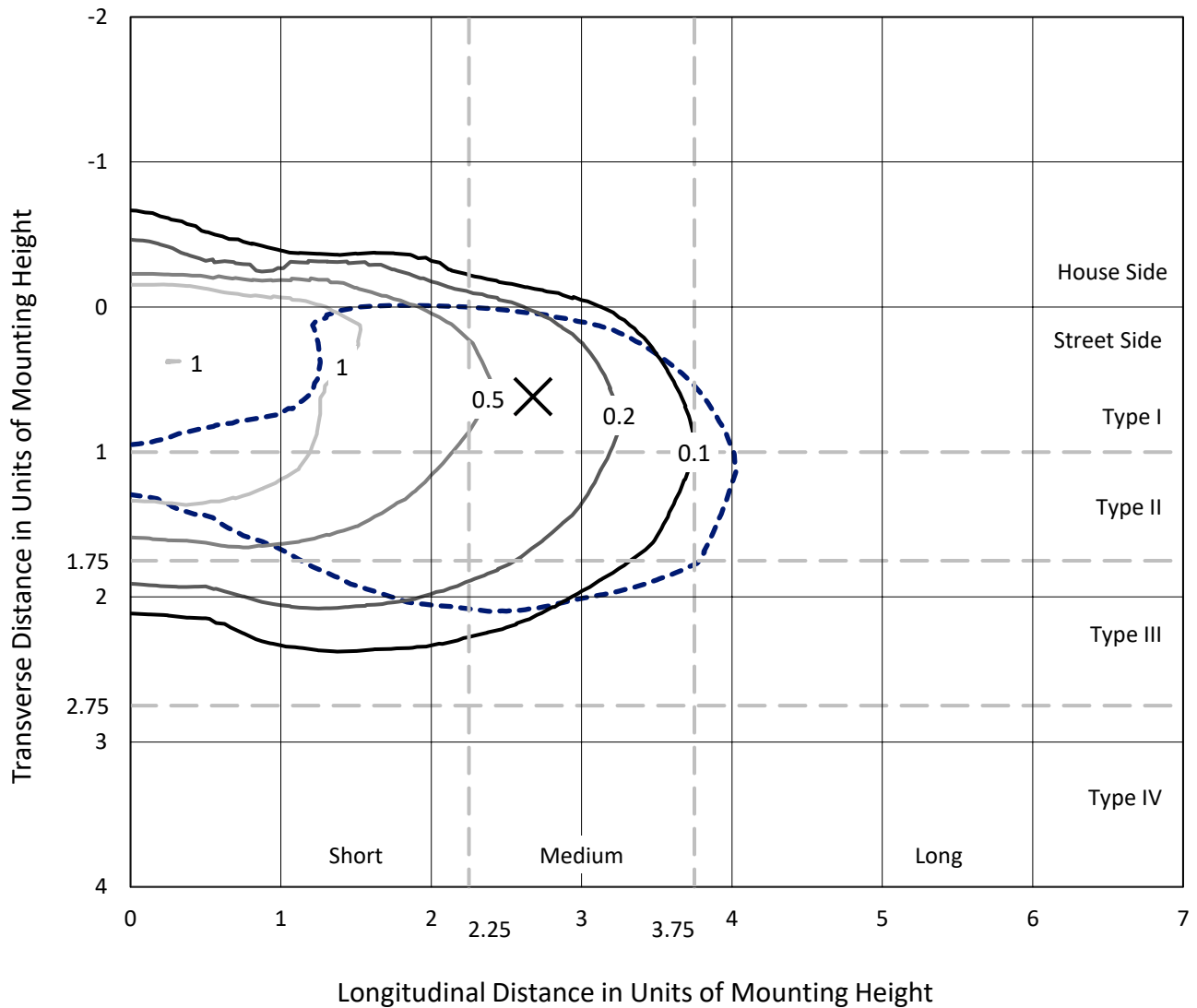
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

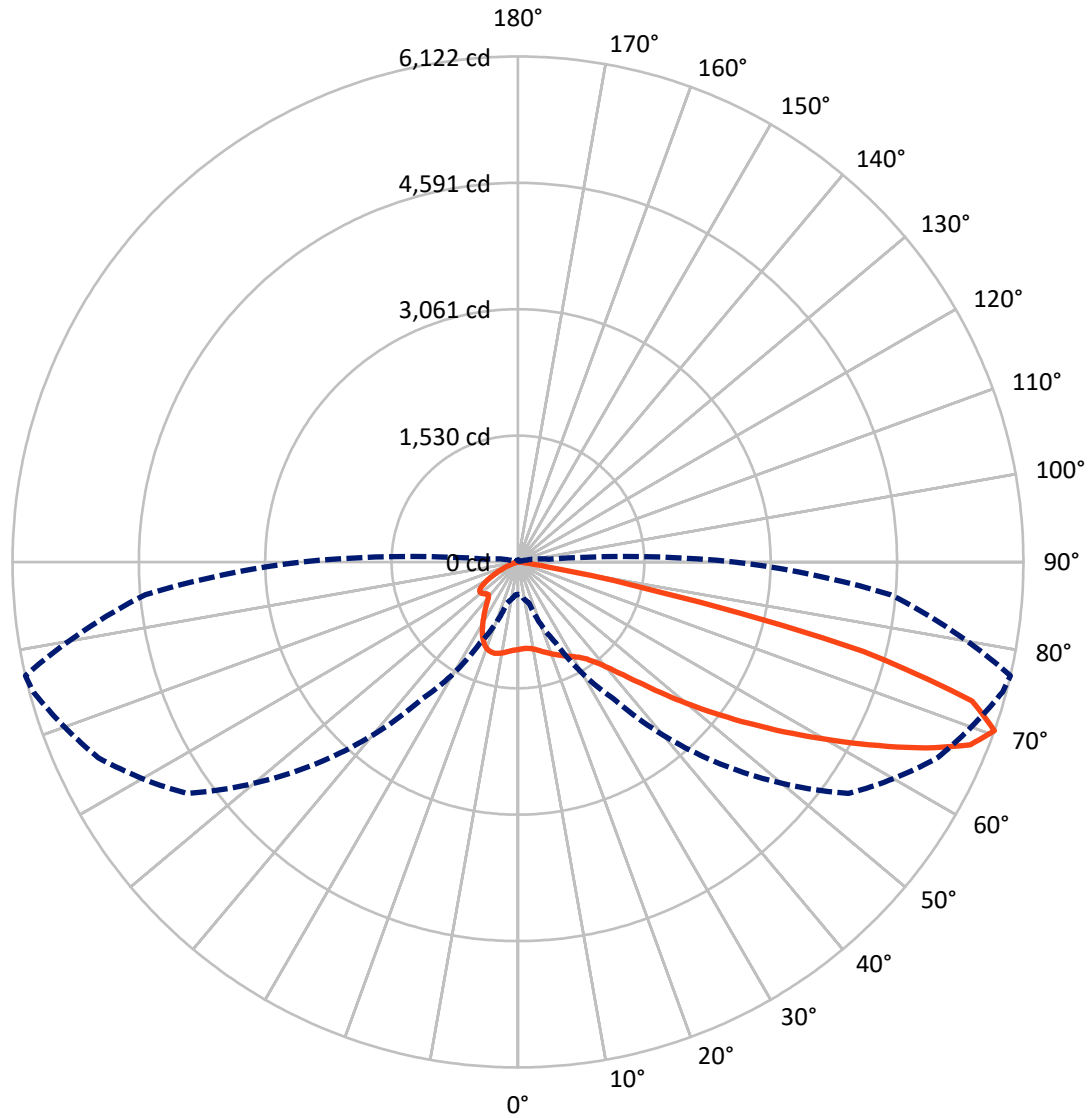
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	716.2	0.0	716.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6077.8	0.0	6077.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	6794.0	0.0	6794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.3
10°-20°	216.8	3.2
20°-30°	335.4	4.9
30°-40°	608.5	9.0
40°-50°	1148.6	16.9
50°-60°	1659.7	24.4
60°-70°	1766.7	26.0
70°-80°	936.2	13.8
80°-90°	30.7	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°	6794.0	100.0
0°-180°	6794.0	100.0

Coefficient of Utilization



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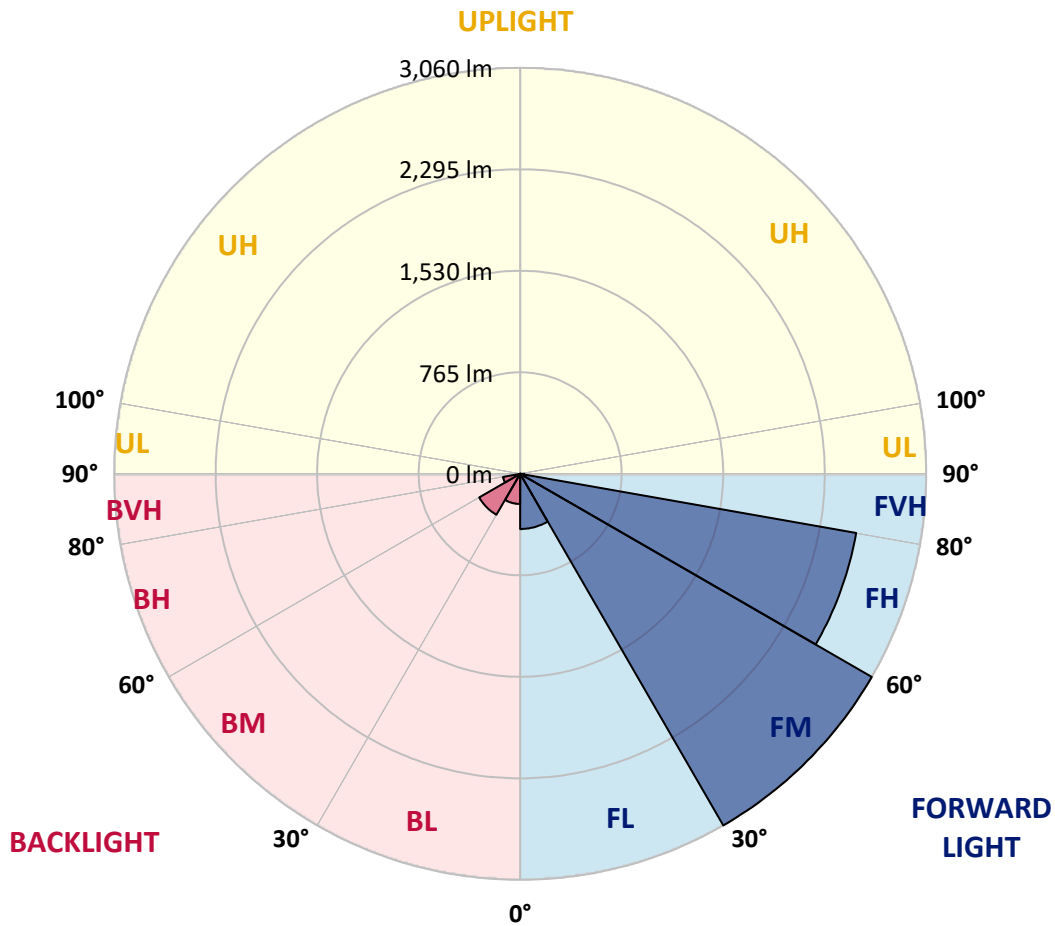
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.0	6.1			
FM (30°-60°)	3060.3	45.0			
FH (60°-80°)	2571.6	37.9			G2/5000
FVH (80°-90°)	29.9	0.4			G1/100
BL (0°-30°)	227.5	3.3	B1/500		
BM (30°-60°)	356.5	5.2	B1/1000		
BH (60°-80°)	131.3	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	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°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	995.0	1004.0	1002.7	1008.7	1010.8	1019.4	1028.0	1039.6	1052.4	1052.0
5°	938.8	947.8	949.9	958.1	968.4	981.7	999.2	1022.4	1046.4	1050.3
7.5°	872.2	881.7	887.3	903.6	922.4	949.9	978.7	1012.5	1052.4	1058.0
10°	805.7	814.3	821.6	844.8	874.8	915.6	962.3	1011.3	1064.9	1073.0
12.5°	764.6	772.7	780.9	801.0	838.4	888.1	951.6	1017.3	1085.5	1097.1
15°	750.0	757.3	763.7	781.7	816.5	873.1	949.5	1029.7	1111.7	1127.1
17.5°	752.1	756.0	760.3	774.0	807.9	866.2	953.3	1051.2	1142.5	1156.3
20°	764.6	766.7	767.1	776.6	806.6	865.4	961.1	1071.8	1171.7	1190.2
22.5°	780.4	781.3	780.4	786.9	814.8	871.8	971.4	1096.6	1204.3	1221.5
25°	854.7	838.4	817.8	805.3	828.5	884.3	986.8	1130.1	1239.9	1256.7
27.5°	1085.1	1038.3	964.5	881.7	856.8	902.3	1008.3	1164.0	1276.0	1291.0
30°	1459.2	1397.8	1272.5	1085.9	947.8	940.0	1036.1	1197.9	1314.2	1330.5
32.5°	1834.2	1819.2	1674.6	1416.3	1152.4	1024.1	1082.5	1243.8	1364.8	1377.7
35°	2213.4	2183.0	2064.6	1809.3	1467.8	1195.3	1159.7	1303.9	1431.3	1445.9
37.5°	2503.9	2485.5	2412.1	2201.9	1841.9	1459.6	1291.9	1397.0	1527.8	1544.1
40°	2760.5	2751.9	2727.0	2588.4	2260.2	1805.4	1497.4	1541.1	1661.7	1681.0
42.5°	2962.1	2982.3	2996.5	2957.8	2691.4	2200.1	1773.7	1743.6	1848.3	1868.1
45°	3168.5	3175.4	3232.4	3288.2	3119.6	2612.9	2085.2	1980.9	2080.4	2104.9
47.5°	3301.1	3328.5	3428.9	3527.2	3479.6	3022.2	2419.8	2261.1	2349.5	2395.4
50°	3310.9	3362.9	3501.0	3672.2	3741.7	3411.8	2783.6	2580.3	2674.2	2724.9
52.5°	3146.6	3227.3	3441.4	3691.9	3883.3	3741.7	3159.9	2899.5	3020.0	3086.1
55°	2412.5	2518.1	3217.0	3584.7	3888.9	3991.8	3526.3	3232.0	3405.3	3480.0
57.5°	2101.9	2155.1	2529.2	3398.5	3785.5	4092.7	3857.5	3548.6	3824.5	3917.2
60°	1748.8	1818.7	2121.2	3093.8	3645.2	4102.5	4150.2	3957.1	4278.9	4383.1
62.5°	1188.5	1264.4	1565.2	2570.4	3453.4	4097.8	4390.0	4377.5	4783.9	4895.8
65°	736.2	783.9	982.1	2098.9	3185.2	4103.0	4641.0	4888.1	5316.7	5430.4
67.5°	581.8	603.7	707.1	1611.5	2723.1	3987.1	4891.5	5368.2	5818.3	5908.4
70°	390.9	404.2	514.4	1080.3	2026.0	3452.5	4886.8	5609.3	6076.6	6121.6
72.5°	205.9	216.2	300.8	500.3	1223.6	2454.1	4119.3	5321.0	5819.6	5751.8
75°	103.0	120.1	202.5	254.0	522.6	1368.7	2558.0	4195.2	4580.5	4317.9
77.5°	78.1	94.4	167.3	167.3	181.9	460.8	1083.3	2288.1	2110.5	1757.4
80°	49.8	64.4	146.3	126.6	75.9	117.1	282.3	641.0	448.4	341.1
82.5°	29.2	42.0	121.8	83.7	42.5	43.3	79.8	136.4	116.3	90.5
85°	11.6	27.5	83.7	33.0	16.7	10.7	24.0	29.2	24.0	18.0
87.5°	0.0	6.4	14.6	0.0	1.3	0.9	1.7	2.1	2.1	1.7
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°
1059.7	0°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
1060.6	2.5°	1064.5	1065.3	1067.9	1068.3	1062.3	1054.6	1051.6	1050.3	1045.2	1044.7
1067.5	5°	1077.3	1081.2	1077.3	1066.2	1039.6	1002.2	973.9	950.8	929.7	923.3
1091.1	7.5°	1103.1	1106.9	1095.4	1051.6	984.7	910.4	843.5	796.3	753.8	738.0
1119.8	10°	1140.0	1145.1	1108.7	1020.3	901.9	782.6	669.3	589.5	527.3	502.0
1158.9	12.5°	1186.3	1188.5	1115.9	972.6	794.2	623.8	463.4	378.0	322.6	302.0
1206.0	15°	1237.4	1234.4	1116.8	907.9	647.4	441.1	302.5	248.4	226.1	219.2
1253.2	17.5°	1291.0	1278.6	1099.6	814.3	486.5	301.6	224.4	211.5	207.7	205.9
1300.0	20°	1343.8	1315.9	1068.3	692.0	349.2	225.2	203.8	199.9	197.8	196.9
1347.2	22.5°	1391.8	1344.2	1014.7	550.0	253.6	199.1	192.6	189.2	185.3	183.6
1393.1	25°	1438.6	1360.5	939.2	417.5	202.9	186.2	181.1	174.6	169.5	167.3
1442.4	27.5°	1484.1	1370.8	844.8	308.9	181.1	174.2	164.8	155.7	151.9	151.0
1495.2	30°	1532.5	1374.2	737.5	230.4	167.8	159.2	145.4	135.1	133.0	133.4
1566.4	32.5°	1591.8	1379.4	629.4	188.8	156.6	141.2	124.9	114.1	112.4	114.1
1670.3	35°	1662.5	1389.7	525.2	173.8	146.7	122.7	105.1	96.1	94.4	95.7
1803.3	37.5°	1758.7	1406.4	427.8	170.8	138.6	107.3	88.4	81.1	81.1	81.5
1966.3	40°	1886.5	1451.0	340.7	168.6	134.3	95.7	74.7	71.7	72.9	73.8
2174.0	42.5°	2042.3	1545.8	281.9	166.0	129.6	90.5	67.8	66.5	68.6	69.5
2422.8	45°	2216.9	1666.0	261.3	161.7	125.3	94.0	64.8	63.1	65.6	66.1
2701.7	47.5°	2397.5	1783.5	258.7	157.0	121.0	99.1	63.9	60.1	63.1	63.5
2999.5	50°	2580.3	1860.3	261.3	149.7	114.1	99.1	64.4	57.1	59.6	60.9
3308.4	52.5°	2764.3	1895.5	259.6	133.9	102.1	93.1	64.4	54.5	57.1	57.9
3642.2	55°	2942.8	1888.7	233.4	110.3	86.7	82.4	62.6	52.3	54.1	54.5
3957.5	57.5°	3084.0	1793.0	184.9	85.8	70.4	68.6	57.1	49.8	51.1	50.6
4246.7	60°	3157.8	1582.7	132.1	66.1	55.3	54.1	50.2	46.3	47.2	45.0
4491.7	62.5°	3158.6	1304.7	88.4	52.3	44.2	42.9	42.9	41.6	40.8	36.5
4681.3	65°	3091.3	996.2	58.8	41.6	35.6	33.5	36.0	35.6	32.6	26.6
4739.2	67.5°	2938.5	653.0	44.6	32.6	27.5	26.2	28.7	30.0	27.9	22.3
4528.1	70°	2624.5	380.1	36.9	25.3	20.6	19.3	23.2	25.7	23.2	18.0
3870.4	72.5°	2180.0	205.1	30.0	18.9	14.2	12.9	18.4	21.0	18.4	13.3
2483.3	75°	1414.6	109.8	23.2	12.4	7.3	8.2	13.7	15.4	12.9	8.6
728.9	77.5°	475.0	48.5	14.6	6.0	3.4	3.4	8.2	9.4	6.0	3.0
132.6	80°	106.0	20.2	6.0	2.6	1.3	1.3	1.7	1.7	0.9	0.0
40.8	82.5°	34.8	8.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
10.3	85°	13.3	3.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	5.1	0.4	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>
1059.7
1045.6
919.4
731.5
491.3
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196.1
183.2
166.5
150.2
133.4
113.7
95.2
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