

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: P946695

Luminaire Tested: **GALN-SB2B-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946695
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-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 9375 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

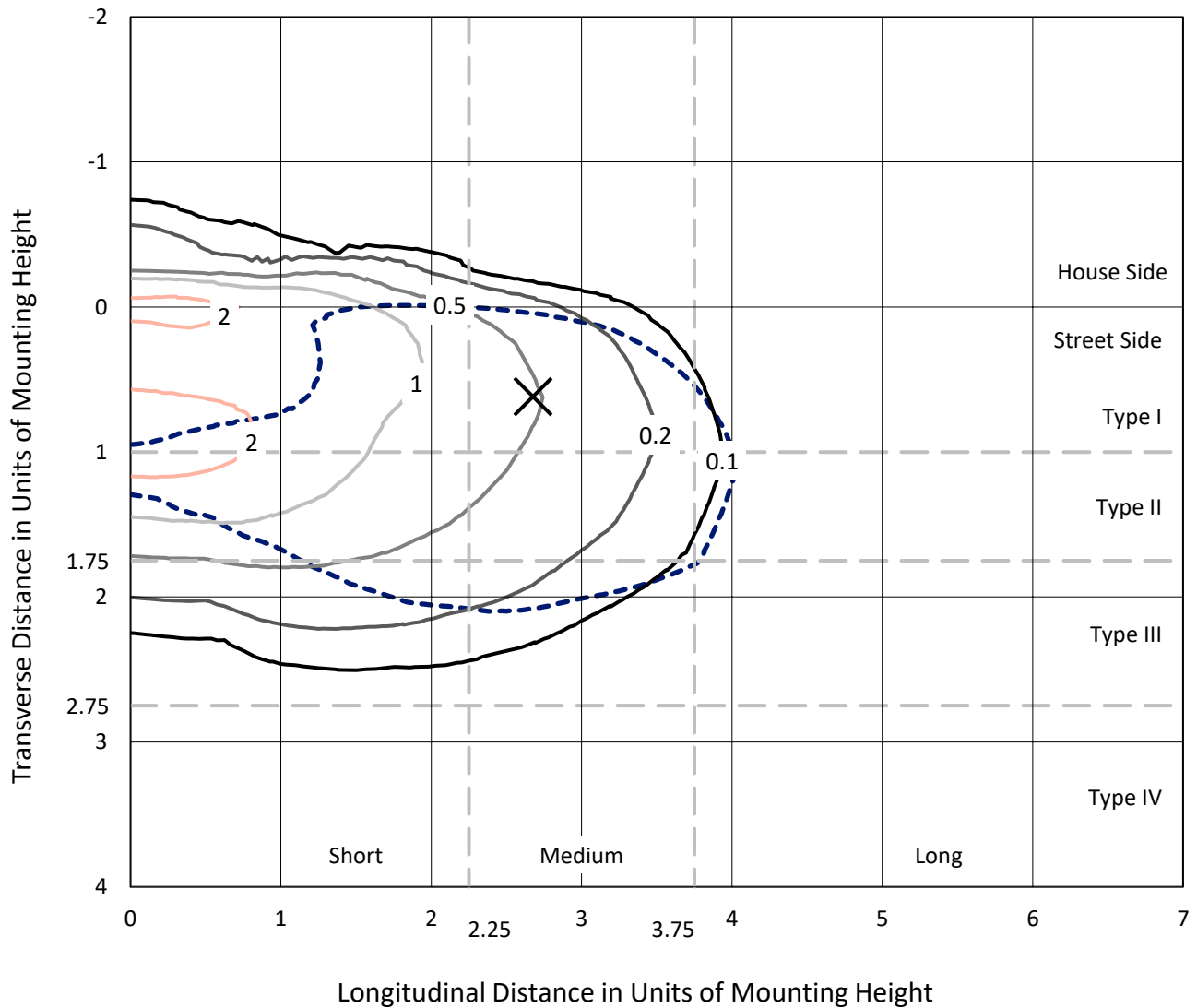
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

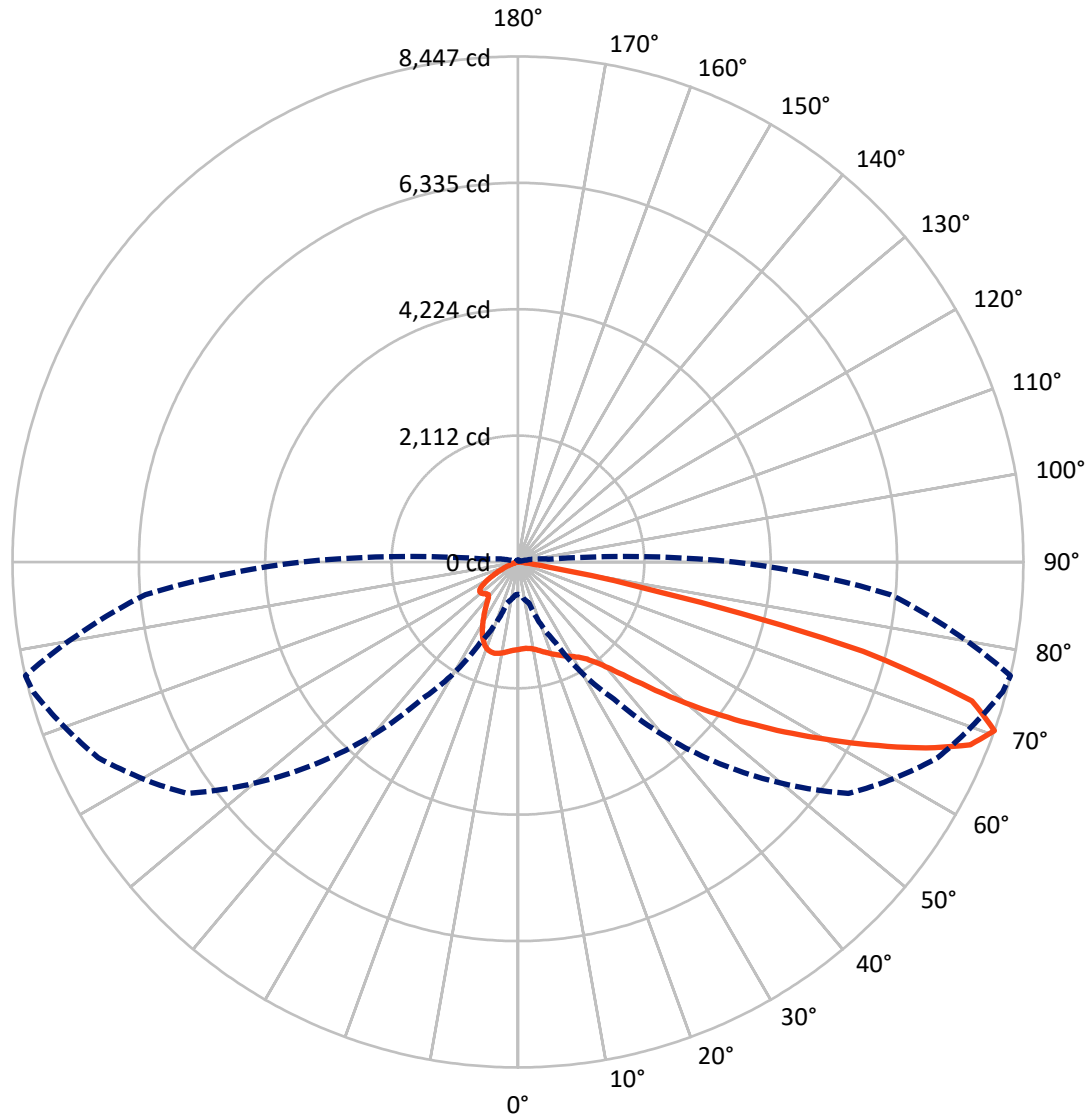
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	988.3	0.0	988.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8386.7	0.0	8386.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	9375.0	0.0	9375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	1.3
10°-20°	299.2	3.2
20°-30°	462.7	4.9
30°-40°	839.7	9.0
40°-50°	1585.0	16.9
50°-60°	2290.2	24.4
60°-70°	2437.8	26.0
70°-80°	1291.9	13.8
80°-90°	42.4	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°	9375.0	100.0
0°-180°	9375.0	100.0

Coefficient of Utilization



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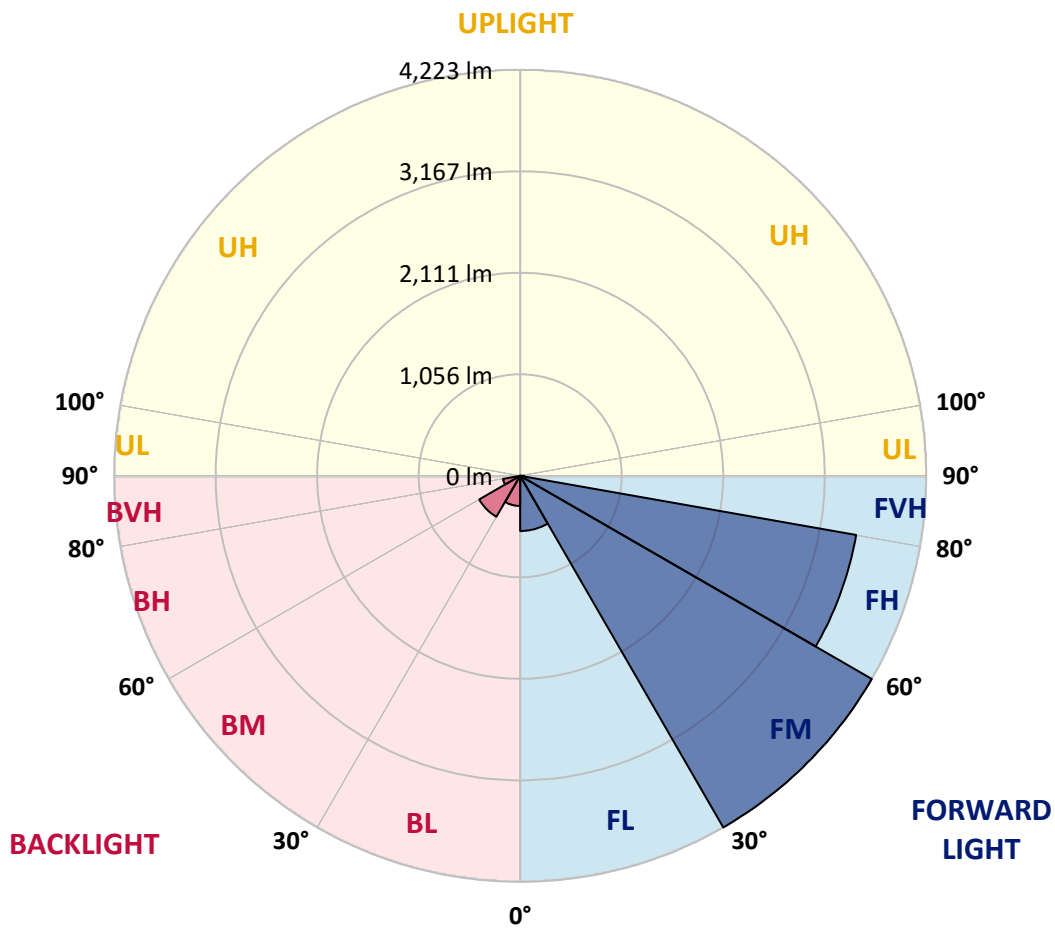
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.0	6.1			
FM (30°-60°)	4222.9	45.0			
FH (60°-80°)	3548.6	37.9			G2/5000
FVH (80°-90°)	41.3	0.4			G1/100
BL (0°-30°)	314.0	3.3	B1/500		
BM (30°-60°)	492.0	5.2	B1/1000		
BH (60°-80°)	181.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1372.9	1385.4	1383.6	1391.9	1394.8	1406.7	1418.5	1434.5	1452.3	1451.7
5°	1295.4	1307.8	1310.8	1322.0	1336.2	1354.6	1378.9	1410.8	1444.0	1449.3
7.5°	1203.6	1216.6	1224.3	1246.8	1272.9	1310.8	1350.4	1397.2	1452.3	1460.0
10°	1111.8	1123.7	1133.8	1165.7	1207.2	1263.4	1327.9	1395.4	1469.4	1480.7
12.5°	1055.0	1066.3	1077.5	1105.3	1156.8	1225.5	1313.1	1403.7	1497.9	1513.8
15°	1034.9	1044.9	1053.8	1078.7	1126.6	1204.8	1310.2	1420.9	1534.0	1555.3
17.5°	1037.8	1043.2	1049.1	1068.0	1114.8	1195.3	1315.5	1450.5	1576.6	1595.5
20°	1055.0	1058.0	1058.6	1071.6	1113.0	1194.1	1326.2	1478.9	1616.9	1642.3
22.5°	1076.9	1078.1	1076.9	1085.8	1124.3	1203.0	1340.4	1513.2	1661.8	1685.5
25°	1179.3	1156.8	1128.4	1111.3	1143.2	1220.2	1361.7	1559.4	1711.0	1734.1
27.5°	1497.3	1432.7	1330.9	1216.6	1182.3	1245.1	1391.3	1606.2	1760.7	1781.4
30°	2013.5	1928.9	1756.0	1498.4	1307.8	1297.2	1429.8	1653.0	1813.4	1835.9
32.5°	2531.0	2510.2	2310.7	1954.3	1590.2	1413.2	1493.7	1716.3	1883.3	1901.0
35°	3054.3	3012.3	2848.9	2496.6	2025.4	1649.4	1600.3	1799.2	1975.0	1995.2
37.5°	3455.1	3429.7	3328.4	3038.3	2541.6	2014.1	1782.6	1927.7	2108.2	2130.7
40°	3809.2	3797.3	3763.0	3571.8	3118.8	2491.3	2066.2	2126.6	2293.0	2319.6
42.5°	4087.4	4115.2	4134.8	4081.5	3713.8	3036.0	2447.5	2406.0	2550.5	2577.7
45°	4372.2	4381.7	4460.4	4537.4	4304.7	3605.5	2877.3	2733.4	2870.8	2904.5
47.5°	4555.1	4593.0	4731.6	4867.1	4801.4	4170.3	3339.1	3120.0	3242.0	3305.3
50°	4568.7	4640.4	4831.0	5067.2	5163.2	4707.9	3841.1	3560.5	3690.2	3760.0
52.5°	4342.0	4453.3	4748.7	5094.5	5358.5	5163.2	4360.4	4001.0	4167.3	4258.5
55°	3329.0	3474.7	4439.1	4946.5	5366.2	5508.3	4865.9	4459.8	4699.0	4802.0
57.5°	2900.4	2973.8	3490.1	4689.5	5223.5	5647.4	5323.0	4896.7	5277.4	5405.3
60°	2413.1	2509.6	2927.0	4269.2	5029.9	5661.1	5726.8	5460.4	5904.4	6048.2
62.5°	1639.9	1744.7	2159.7	3546.9	4765.3	5654.5	6057.7	6040.6	6601.2	6755.7
65°	1015.9	1081.7	1355.2	2896.2	4395.3	5661.6	6404.1	6745.1	7336.5	7493.4
67.5°	802.8	833.0	975.7	2223.7	3757.7	5501.8	6749.8	7407.6	8028.6	8152.9
70°	539.3	557.7	709.9	1490.7	2795.6	4764.1	6743.3	7740.3	8385.0	8447.2
72.5°	284.2	298.4	415.0	690.3	1688.5	3386.5	5684.1	7342.4	8030.4	7936.8
75°	142.1	165.8	279.4	350.5	721.1	1888.6	3529.7	5788.9	6320.6	5958.3
77.5°	107.8	130.2	230.9	230.9	251.0	635.8	1494.9	3157.3	2912.2	2425.0
80°	68.7	88.8	201.9	174.7	104.8	161.6	389.6	884.5	618.7	470.7
82.5°	40.3	58.0	168.1	115.4	58.6	59.8	110.1	188.3	160.4	124.9
85°	16.0	37.9	115.4	45.6	23.1	14.8	33.2	40.3	33.2	24.9
87.5°	0.0	8.9	20.1	0.0	1.8	1.2	2.4	3.0	3.0	2.4
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°
1462.3	0°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
1463.5	2.5°	1468.8	1470.0	1473.6	1474.2	1465.9	1455.2	1451.1	1449.3	1442.2	1441.6
1473.0	5°	1486.6	1491.9	1486.6	1471.2	1434.5	1383.0	1343.9	1312.0	1282.9	1274.1
1505.5	7.5°	1522.1	1527.5	1511.5	1451.1	1358.7	1256.3	1163.9	1098.8	1040.2	1018.3
1545.2	10°	1573.0	1580.1	1529.8	1407.9	1244.5	1079.9	923.6	813.5	727.6	692.7
1599.1	12.5°	1637.0	1639.9	1539.9	1342.1	1095.9	860.8	639.4	521.6	445.2	416.8
1664.2	15°	1707.4	1703.3	1541.1	1252.7	893.4	608.6	417.4	342.8	312.0	302.5
1729.3	17.5°	1781.4	1764.3	1517.4	1123.7	671.4	416.2	309.6	291.9	286.5	284.2
1793.9	20°	1854.3	1815.8	1474.2	955.0	481.9	310.8	281.2	275.9	272.9	271.7
1859.0	22.5°	1920.6	1854.9	1400.2	759.0	349.9	274.7	265.8	261.1	255.8	253.4
1922.3	25°	1985.1	1877.3	1296.0	576.1	280.0	256.9	249.8	241.0	233.9	230.9
1990.4	27.5°	2047.9	1891.6	1165.7	426.3	249.8	240.4	227.3	214.9	209.6	208.4
2063.2	30°	2114.8	1896.3	1017.7	317.9	231.5	219.6	200.7	186.5	183.5	184.1
2161.5	32.5°	2196.5	1903.4	868.5	260.5	216.1	194.8	172.3	157.5	155.1	157.5
2304.8	35°	2294.1	1917.6	724.7	239.8	202.5	169.3	145.0	132.6	130.2	132.0
2488.3	37.5°	2426.8	1940.7	590.3	235.6	191.2	148.0	122.0	111.9	111.9	112.5
2713.3	40°	2603.2	2002.3	470.1	232.7	185.3	132.0	103.0	98.9	100.6	101.8
2999.9	42.5°	2818.1	2133.1	389.0	229.1	178.8	124.9	93.5	91.8	94.7	95.9
3343.2	45°	3059.1	2298.9	360.6	223.2	172.9	129.7	89.4	87.0	90.6	91.2
3728.1	47.5°	3308.3	2461.1	357.0	216.7	167.0	136.8	88.2	82.9	87.0	87.6
4138.9	50°	3560.5	2567.1	360.6	206.6	157.5	136.8	88.8	78.7	82.3	84.1
4565.2	52.5°	3814.5	2615.6	358.2	184.7	140.9	128.5	88.8	75.2	78.7	79.9
5025.8	55°	4060.8	2606.1	322.1	152.2	119.6	113.7	86.4	72.2	74.6	75.2
5460.9	57.5°	4255.6	2474.1	255.2	118.4	97.1	94.7	78.7	68.7	70.5	69.9
5860.0	60°	4357.4	2184.0	182.3	91.2	76.4	74.6	69.3	63.9	65.1	62.2
6198.0	62.5°	4358.6	1800.4	122.0	72.2	61.0	59.2	59.2	57.4	56.2	50.3
6459.7	65°	4265.6	1374.7	81.1	57.4	49.1	46.2	49.7	49.1	45.0	36.7
6539.6	67.5°	4054.9	901.1	61.6	45.0	37.9	36.1	39.7	41.4	38.5	30.8
6248.4	70°	3621.5	524.5	50.9	34.9	28.4	26.6	32.0	35.5	32.0	24.9
5340.8	72.5°	3008.1	283.0	41.4	26.0	19.5	17.8	25.5	29.0	25.5	18.4
3426.7	75°	1951.9	151.6	32.0	17.2	10.1	11.2	18.9	21.3	17.8	11.8
1005.9	77.5°	655.4	66.9	20.1	8.3	4.7	4.7	11.2	13.0	8.3	4.1
182.9	80°	146.2	27.8	8.3	3.6	1.8	1.8	2.4	2.4	1.2	0.0
56.2	82.5°	48.0	11.2	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
14.2	85°	18.4	4.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	7.1	0.6	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>
1462.3
1442.8
1268.7
1009.4
677.9
407.9
302.5
283.6
270.6
252.8
229.7
207.2
184.1
156.9
131.4
111.9
101.8
95.9
91.8
88.2
84.7
79.9
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