

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: P944927

Luminaire Tested: **GALN-SB1A-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4020 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

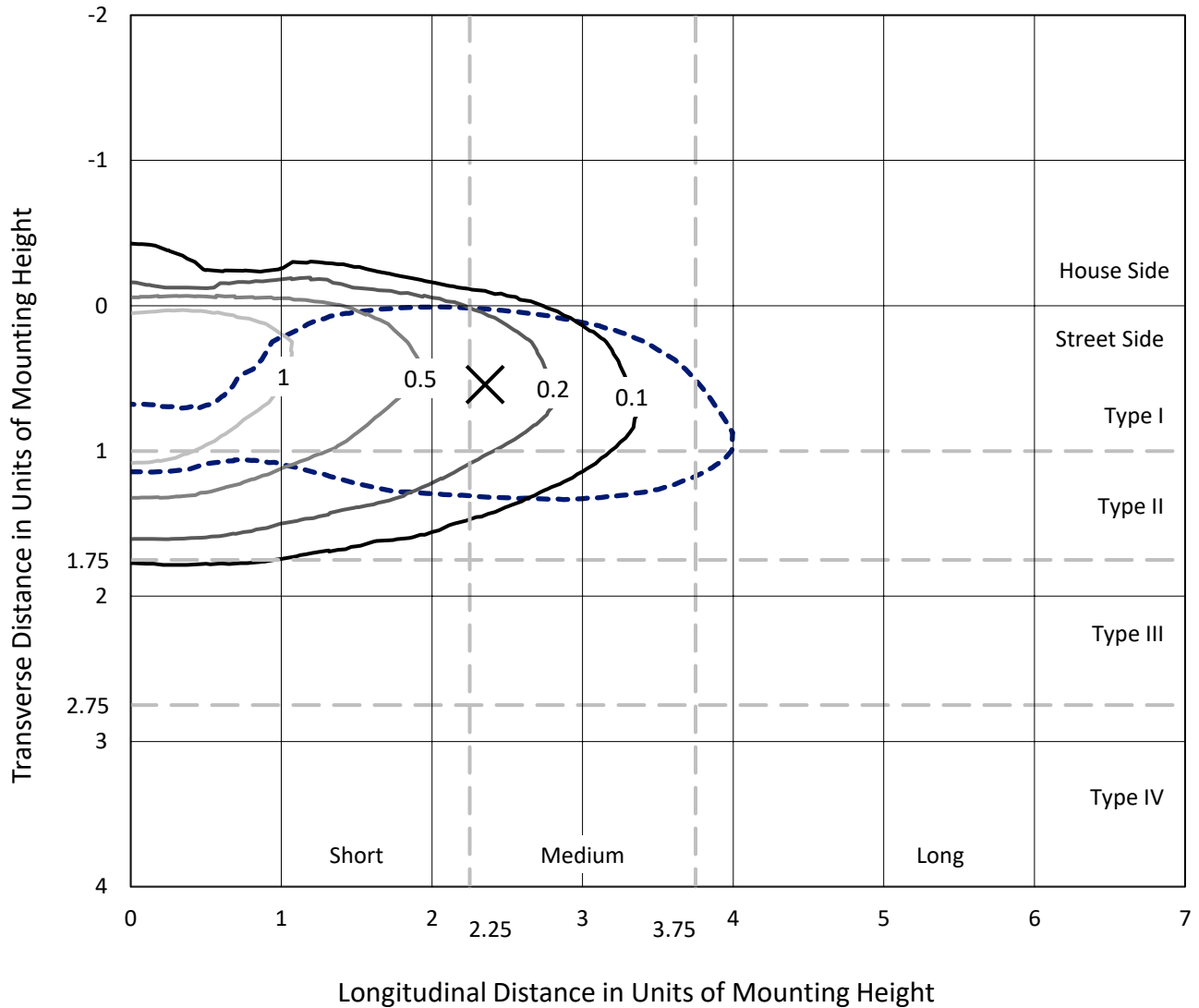
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944927
 CATALOG NUMBER: GALN-SB1A-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

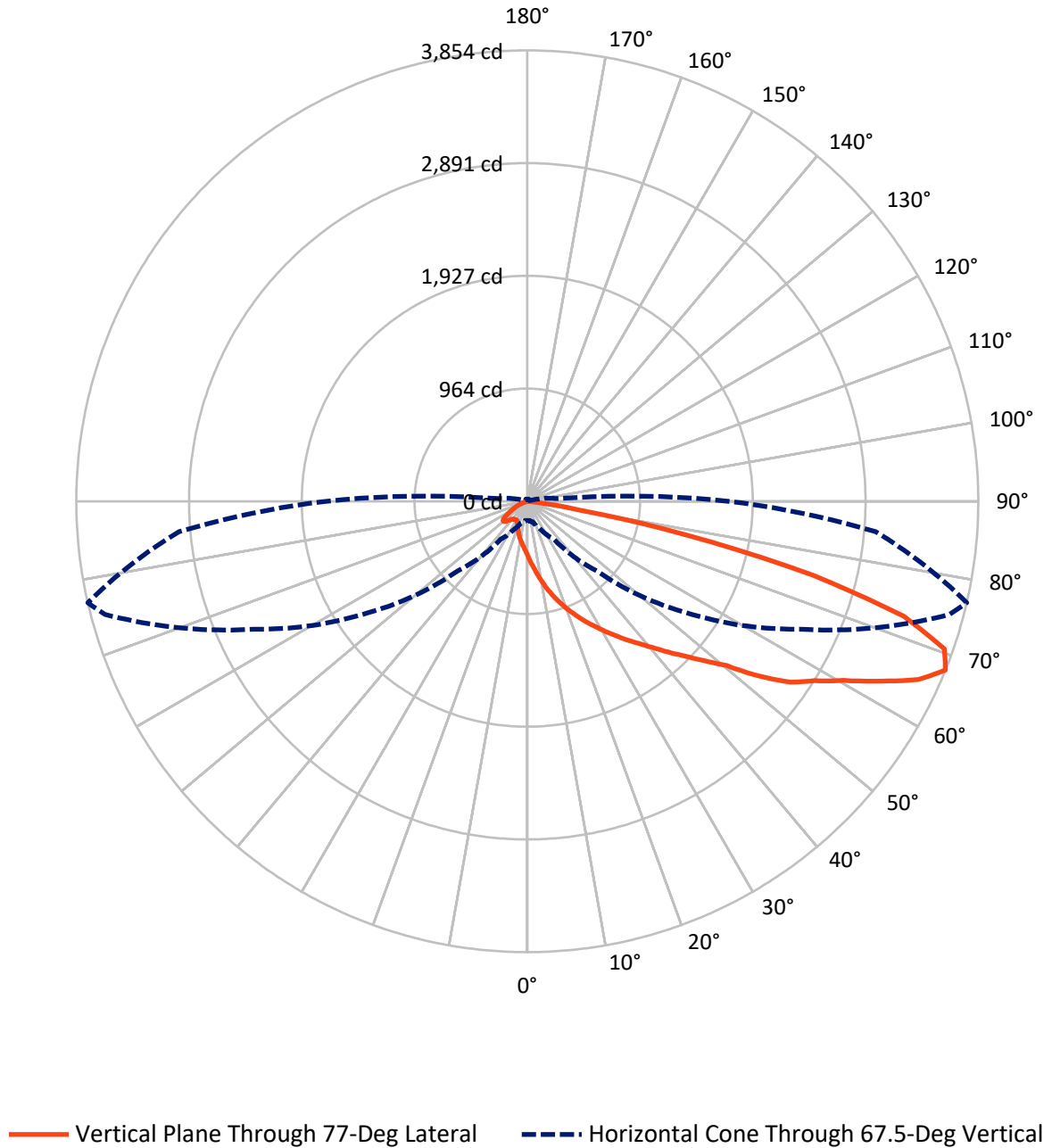
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P944927
CATALOG NUMBER: GALN-SB1A-740-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	295.7	0.0	295.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3724.2	0.0	3724.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	4020.0	0.0	4020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	1.2
10°-20°	165.7	4.1
20°-30°	319.7	8.0
30°-40°	555.1	13.8
40°-50°	805.9	20.0
50°-60°	925.5	23.0
60°-70°	803.5	20.0
70°-80°	378.5	9.4
80°-90°	18.7	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°	4020.0	100.0
0°-180°	4020.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944927

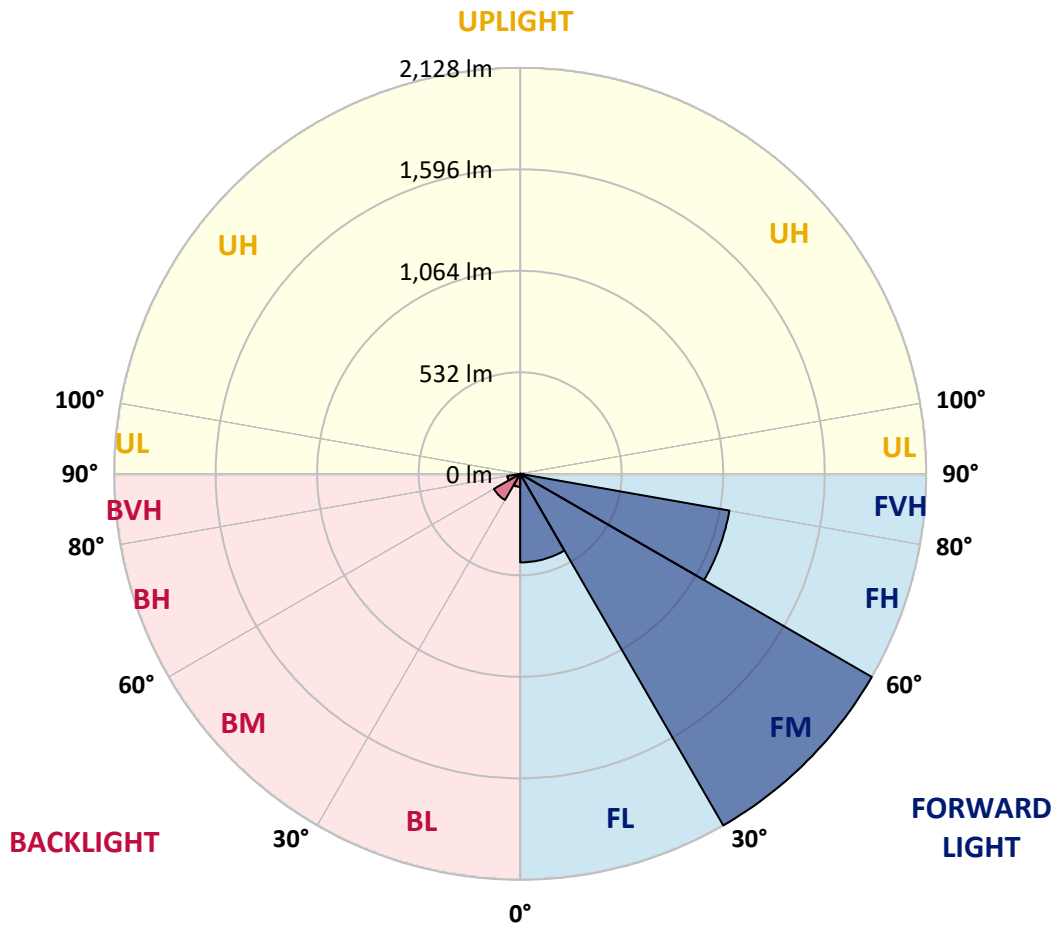
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.3	11.5			
FM (30°-60°)	2128.1	52.9			
FH (60°-80°)	1113.5	27.7			G1/1800
FVH (80°-90°)	18.4	0.5			G1/100
BL (0°-30°)	68.5	1.7	B0/110		
BM (30°-60°)	158.5	3.9	B0/220		
BH (60°-80°)	68.5	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



REPORT NUMBER: P944927

CATALOG NUMBER: GALN-SB1A-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	463.6	463.6	463.6	463.6	463.6	463.6	463.6	463.6	463.6	463.6
2.5°	641.8	645.8	640.1	629.1	612.6	601.9	575.6	550.9	523.5	514.7
5°	782.3	785.8	779.3	767.4	745.4	724.4	690.0	638.3	584.6	567.4
7.5°	886.4	888.4	885.9	875.0	854.0	830.3	791.8	730.7	651.0	632.1
10°	961.3	967.8	967.1	962.8	948.8	929.6	888.7	819.0	725.4	701.0
12.5°	1011.0	1018.2	1022.5	1032.0	1031.2	1019.0	983.0	909.4	799.6	770.9
15°	1025.5	1033.2	1049.4	1071.4	1090.9	1097.1	1071.9	998.0	881.2	844.5
17.5°	1017.2	1029.2	1048.7	1083.4	1126.1	1154.3	1151.5	1083.6	955.3	913.4
20°	1035.5	1047.0	1062.2	1091.4	1141.1	1192.2	1212.7	1165.5	1029.0	985.0
22.5°	1136.3	1134.3	1135.8	1140.6	1170.3	1220.9	1263.1	1239.9	1101.9	1056.9
25°	1296.1	1287.1	1271.9	1246.2	1238.7	1263.1	1307.1	1305.8	1178.8	1130.6
27.5°	1479.3	1477.8	1442.1	1380.2	1345.3	1335.8	1356.7	1370.0	1254.9	1203.5
30°	1654.8	1658.8	1610.6	1541.7	1477.6	1440.4	1421.4	1430.9	1332.3	1282.1
32.5°	1807.6	1811.8	1759.4	1678.8	1599.4	1554.5	1514.5	1491.0	1416.7	1362.0
35°	1936.6	1940.9	1880.7	1791.6	1707.0	1666.3	1621.1	1556.9	1501.5	1450.6
37.5°	2052.0	2050.7	1970.1	1880.2	1797.1	1764.9	1741.2	1638.1	1588.9	1539.7
40°	2120.1	2125.4	2056.5	1957.4	1876.7	1853.3	1851.8	1738.7	1689.8	1642.1
42.5°	2140.1	2149.3	2099.4	2018.0	1944.9	1919.4	1958.6	1847.5	1807.1	1760.6
45°	2104.1	2113.1	2090.4	2034.0	1991.3	1974.8	2050.5	1960.4	1932.4	1886.5
47.5°	1999.3	2010.5	2016.0	2004.0	2003.5	2020.3	2132.8	2079.2	2081.2	2034.2
50°	1796.3	1815.3	1865.7	1908.2	1973.8	2056.2	2213.0	2208.0	2248.9	2208.5
52.5°	1427.4	1454.4	1628.1	1744.2	1891.7	2049.5	2301.1	2414.7	2543.2	2484.1
55°	1147.1	1147.1	1288.3	1505.5	1731.4	2005.0	2339.5	2549.0	2743.7	2729.7
57.5°	935.1	946.4	1036.5	1228.4	1499.5	1899.2	2363.3	2633.4	2905.2	2895.0
60°	577.1	601.4	771.6	961.1	1235.7	1710.7	2348.3	2718.7	3101.2	3109.4
62.5°	325.0	334.0	409.9	691.5	960.8	1457.3	2233.7	2766.4	3351.8	3386.7
65°	224.4	228.9	258.1	430.4	666.0	1160.3	2009.8	2736.7	3602.9	3673.6
67.5°	163.0	165.3	183.5	262.9	395.2	841.3	1658.8	2586.9	3736.0	3854.1
70°	125.3	126.8	140.0	172.7	233.4	519.2	1204.7	2289.1	3639.6	3780.7
72.5°	101.8	103.3	113.6	127.8	154.8	307.0	730.2	1859.0	3214.3	3366.5
75°	85.9	87.9	97.1	106.3	121.3	197.2	342.5	1294.6	2417.2	2517.0
77.5°	47.7	43.9	78.9	88.1	102.3	124.8	160.3	761.9	1353.7	1381.5
80°	29.7	30.7	62.7	70.9	78.6	62.9	73.4	293.3	469.3	445.8
82.5°	1.7	4.0	48.2	51.2	53.9	27.0	27.7	99.6	113.1	103.8
85°	0.0	0.0	22.0	17.7	18.7	7.7	8.0	23.2	15.2	16.5
87.5°	0.0	0.0	0.0	0.5	0.0	0.7	1.5	2.0	0.7	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944927
 CATALOG NUMBER: GALN-SB1A-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
463.6	0°	463.6	463.6	463.6	463.6	463.6	463.6	463.6	463.6	463.6	463.6
487.3	2.5°	469.8	452.3	416.9	382.2	354.0	327.8	309.0	291.3	282.3	281.8
518.7	5°	484.0	447.3	376.4	313.8	263.4	222.9	196.7	178.0	168.5	165.3
557.4	7.5°	504.0	448.8	341.0	253.9	194.5	159.8	144.8	138.8	136.8	134.6
601.1	10°	529.2	452.3	309.3	204.4	153.3	135.8	129.8	127.3	125.8	124.3
650.3	12.5°	557.4	455.6	277.8	169.7	134.8	125.8	121.6	118.6	116.6	114.8
700.7	15°	584.9	457.6	245.1	145.5	125.3	118.1	113.6	110.3	107.6	105.6
750.1	17.5°	612.1	460.3	214.4	131.1	117.6	110.3	105.8	101.8	99.6	97.4
802.1	20°	642.3	459.8	185.5	120.8	109.8	102.6	97.9	94.1	91.9	89.4
857.0	22.5°	670.3	457.3	160.0	112.1	101.8	94.9	89.6	85.9	83.6	81.6
913.2	25°	702.5	455.3	138.8	104.1	94.4	87.4	81.6	78.1	75.6	73.9
969.6	27.5°	733.4	452.3	123.3	96.9	87.1	80.4	74.9	70.9	68.6	67.4
1027.7	30°	763.9	451.6	117.6	89.9	80.6	73.9	68.4	64.7	62.9	62.4
1091.6	32.5°	800.6	453.6	120.1	87.4	74.6	67.9	62.7	59.9	58.2	58.2
1162.8	35°	839.8	453.1	123.8	89.6	70.6	61.9	57.9	56.2	54.4	54.4
1241.7	37.5°	888.9	453.8	126.8	93.4	69.1	56.9	54.7	52.4	51.4	51.4
1328.0	40°	962.3	478.5	125.3	96.6	68.6	53.4	48.9	48.2	47.4	47.4
1425.6	42.5°	1052.2	532.2	127.3	96.9	68.4	50.9	44.9	46.4	44.7	44.4
1535.7	45°	1150.6	590.9	140.0	91.6	68.1	49.7	42.9	44.7	41.9	41.9
1663.3	47.5°	1248.2	649.0	153.0	84.1	67.4	49.4	41.2	40.2	39.4	39.7
1829.5	50°	1382.7	696.5	158.0	73.9	65.7	48.9	37.9	38.2	37.7	38.2
2064.0	52.5°	1529.2	706.5	152.0	62.4	60.7	47.4	35.7	36.7	36.4	36.9
2229.0	55°	1620.6	695.7	125.6	51.9	52.9	41.4	33.5	35.4	35.4	35.4
2390.2	57.5°	1715.0	650.0	89.1	42.2	43.9	33.9	31.5	34.2	33.9	33.7
2584.4	60°	1782.9	576.1	58.7	34.7	34.9	28.0	29.2	32.2	32.0	30.7
2784.6	62.5°	1833.5	494.5	37.7	29.5	26.7	25.2	26.7	29.2	28.2	25.5
2954.4	65°	1827.8	381.4	29.0	25.2	22.0	22.0	23.2	25.5	22.5	18.0
2986.8	67.5°	1721.2	258.1	24.0	21.2	18.5	18.2	19.2	21.2	19.2	15.2
2820.6	70°	1530.7	168.8	19.2	16.5	14.7	13.5	15.5	18.2	16.2	12.2
2401.2	72.5°	1242.4	102.8	14.5	12.0	10.7	8.7	12.2	15.0	13.0	9.0
1669.8	75°	803.8	52.4	10.0	7.7	5.7	5.2	9.0	11.2	9.0	5.5
740.9	77.5°	307.5	22.0	5.5	3.5	3.0	2.5	5.0	6.7	3.7	1.2
143.5	80°	59.2	9.2	2.7	1.7	1.5	1.0	0.7	0.5	0.0	0.0
25.5	82.5°	10.2	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5.0	85°	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.7	87.5°	1.2	0.0	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>
463.6
281.3
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123.8
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81.4
73.6
67.4
62.2
58.2
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