

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: P946529

Luminaire Tested: **GALN-SB2A-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4206 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

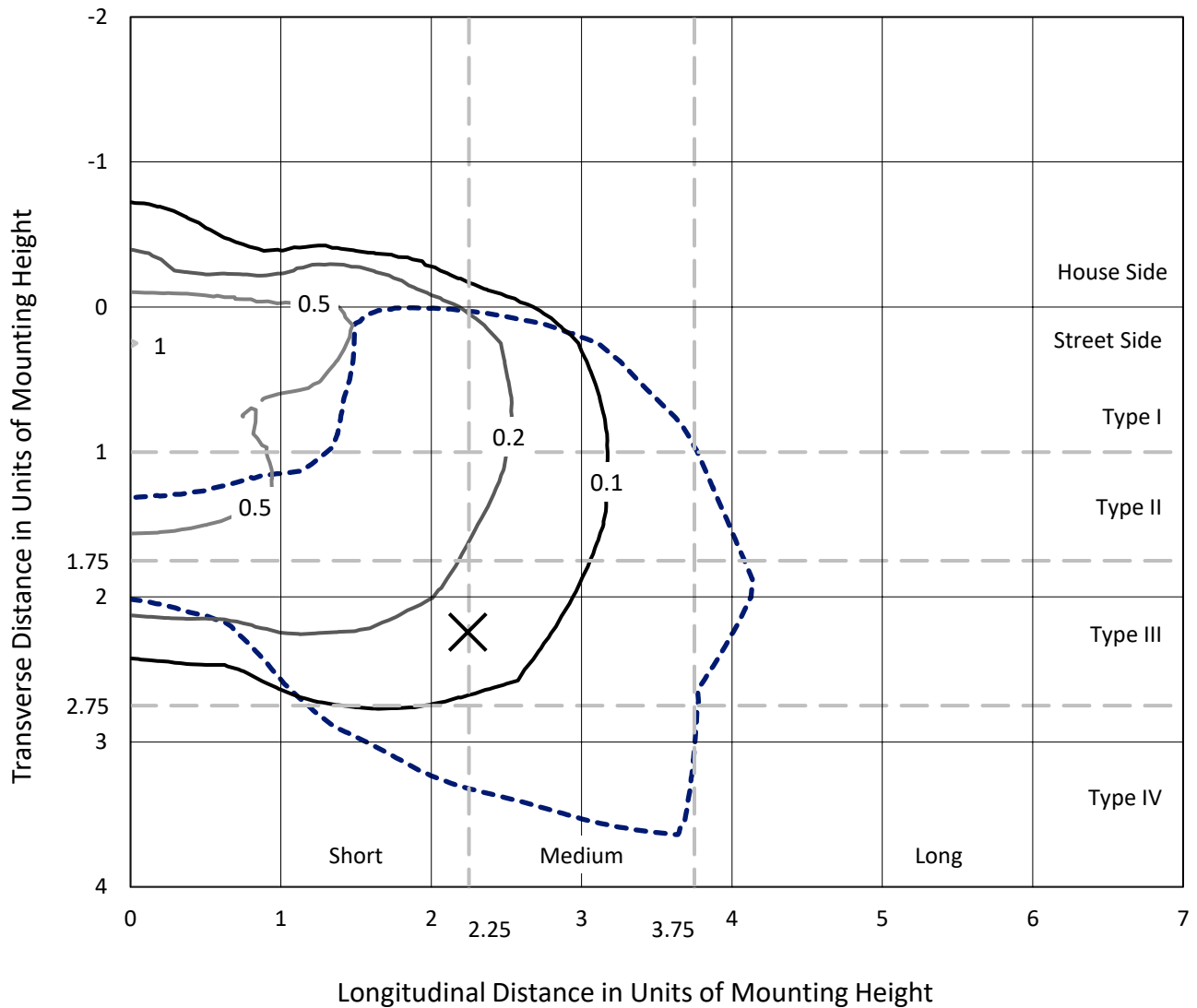
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

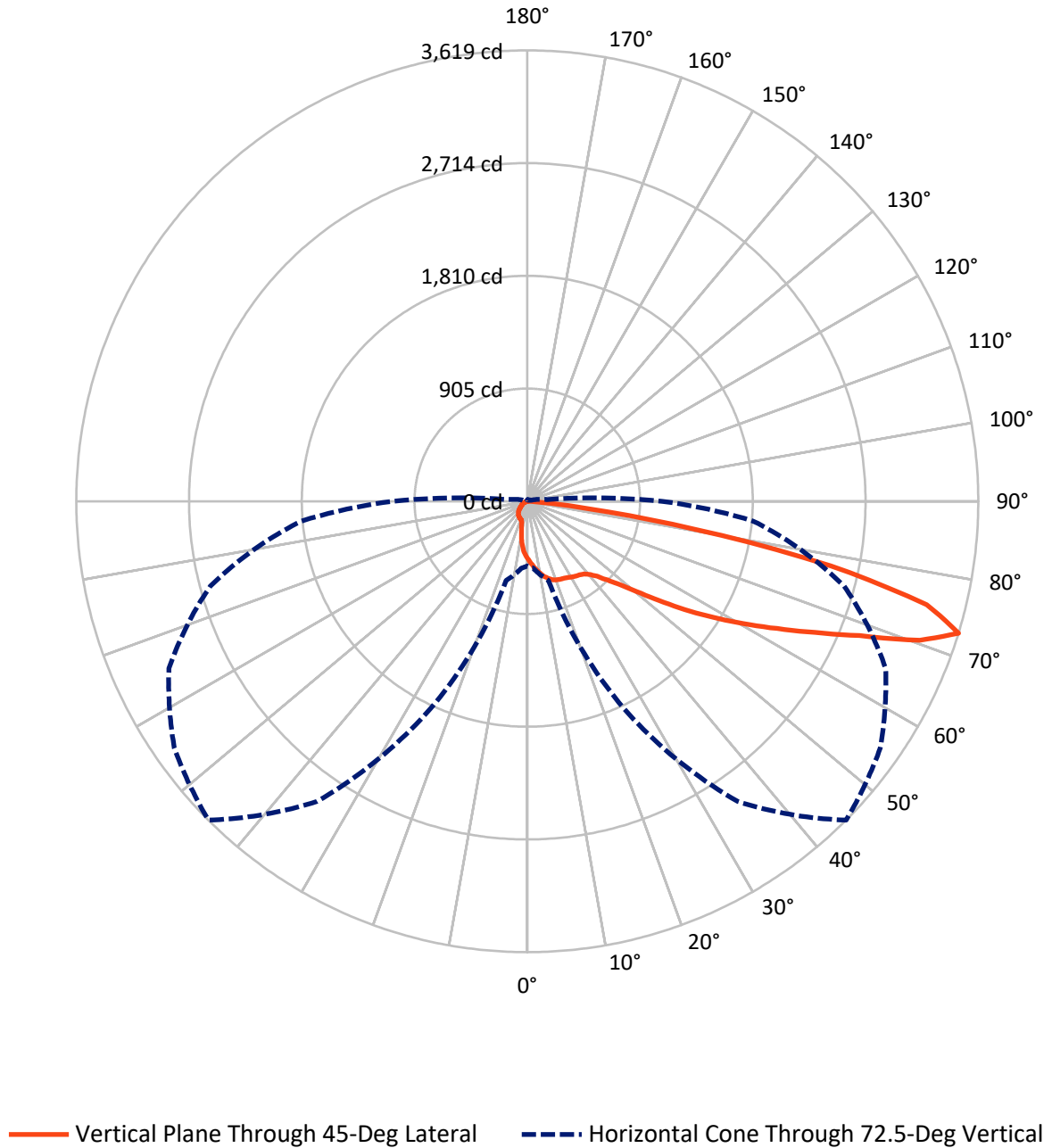
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.9	0.0	441.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3764.1	0.0	3764.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	4206.0	0.0	4206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.0
10°-20°	126.9	3.0
20°-30°	208.4	5.0
30°-40°	295.5	7.0
40°-50°	488.4	11.6
50°-60°	877.4	20.9
60°-70°	1218.3	29.0
70°-80°	883.7	21.0
80°-90°	63.9	1.5
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°	4206.0	100.0
0°-180°	4206.0	100.0

Coefficient of Utilization



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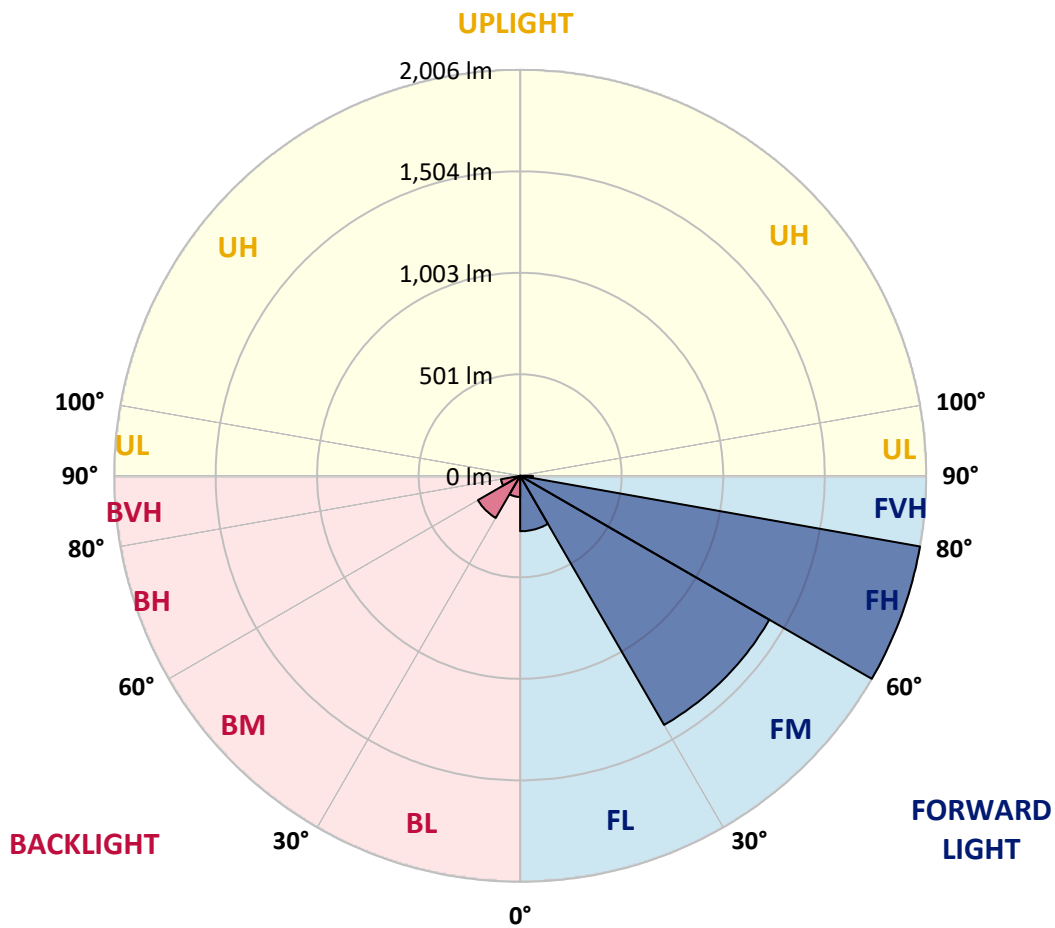
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.0	6.5			
FM (30°-60°)	1421.0	33.8			
FH (60°-80°)	2005.7	47.7			G2/5000
FVH (80°-90°)	63.4	1.5			G1/100
BL (0°-30°)	104.7	2.5	B0/110		
BM (30°-60°)	240.4	5.7	B1/1000		
BH (60°-80°)	96.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	460.8	460.8	460.8	460.8	460.8	460.8	460.8	460.8	460.8	460.8
2.5°	503.3	504.1	503.6	500.1	494.4	491.2	489.5	483.7	480.0	473.4
5°	549.5	552.9	550.9	544.0	533.1	525.4	523.1	511.3	500.7	488.3
7.5°	598.6	600.3	596.6	587.7	573.0	559.8	557.8	541.4	524.5	505.6
10°	641.1	643.1	637.3	624.4	607.8	591.4	588.5	570.4	550.3	527.1
12.5°	676.7	678.7	671.2	655.7	637.3	620.4	617.5	598.6	576.5	550.6
15°	703.7	707.4	697.3	680.7	660.9	643.9	642.5	623.8	602.3	573.6
17.5°	719.4	723.2	713.7	693.6	676.7	662.3	660.6	645.1	625.0	597.4
20°	722.0	725.5	715.4	697.9	683.8	672.4	671.5	660.3	645.7	619.2
22.5°	714.3	718.6	709.4	695.3	685.6	679.5	678.4	672.1	663.7	641.4
25°	706.2	709.7	702.8	690.4	685.3	684.7	685.6	684.4	682.7	663.7
27.5°	705.7	709.4	701.6	689.9	687.0	693.0	693.9	699.3	700.8	684.1
30°	710.5	713.1	705.7	693.3	691.9	705.7	705.9	715.7	718.0	701.4
32.5°	721.2	724.0	716.6	698.5	696.5	715.7	716.6	729.5	733.2	719.7
35°	746.1	749.6	741.0	712.8	705.7	725.2	727.8	743.0	750.4	739.3
37.5°	808.4	798.4	786.6	741.8	726.6	740.1	744.4	762.2	775.4	762.5
40°	963.2	931.6	894.9	791.2	763.4	772.0	775.4	793.2	811.3	798.7
42.5°	1195.4	1158.1	1099.0	904.9	818.8	823.1	825.7	841.2	866.7	856.7
45°	1402.4	1388.9	1328.6	1099.0	922.4	901.2	904.3	912.4	950.0	946.2
47.5°	1561.5	1553.7	1507.2	1321.8	1097.5	996.8	1005.7	1009.4	1063.7	1076.9
50°	1683.8	1680.9	1639.3	1519.8	1326.3	1137.7	1140.9	1132.8	1214.1	1246.8
52.5°	1799.2	1808.9	1778.2	1703.9	1570.7	1322.3	1321.8	1283.9	1393.5	1442.9
55°	1903.4	1906.8	1910.0	1891.6	1816.4	1532.5	1527.0	1465.0	1601.7	1652.8
57.5°	2001.3	2002.7	2030.9	2068.5	2072.2	1758.1	1748.1	1673.7	1829.0	1865.5
60°	2067.0	2073.6	2133.1	2237.6	2283.2	1991.0	1985.5	1909.7	2060.4	2077.4
62.5°	1972.3	2012.5	2162.3	2369.6	2482.4	2249.0	2246.5	2175.3	2303.9	2290.1
65°	1596.5	1664.5	1928.1	2458.9	2678.0	2537.3	2541.0	2465.2	2553.9	2509.1
67.5°	1116.8	1188.5	1500.3	2466.1	2896.4	2875.8	2897.3	2778.4	2819.5	2719.0
70°	772.3	809.3	1012.3	2311.6	3066.7	3342.0	3341.4	3163.1	3083.6	2814.6
72.5°	519.3	538.6	657.4	1833.9	2941.5	3619.0	3602.4	3457.1	3172.6	2632.3
75°	219.0	233.1	304.3	1030.6	2327.1	3311.0	3265.9	3055.2	2818.9	2072.8
77.5°	69.5	75.5	120.0	368.9	1281.8	2488.8	2441.1	1908.0	1889.3	1039.8
80°	33.0	38.5	67.5	148.1	504.4	1353.6	1347.0	865.6	812.7	280.8
82.5°	14.4	16.9	37.3	79.2	225.7	482.9	492.6	294.6	243.7	106.5
85°	4.6	6.0	17.2	36.5	95.3	120.0	118.6	70.0	98.2	58.0
87.5°	0.0	0.0	5.7	8.3	9.8	6.9	7.8	6.0	27.3	16.1
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°
460.8	0°	460.8	460.8	460.8	460.8	460.8	460.8	460.8	460.8	460.8	460.8
466.5	2.5°	463.1	458.5	450.4	443.0	436.4	429.8	425.8	420.0	419.4	419.4
474.0	5°	466.2	458.8	444.4	429.2	411.7	395.0	378.4	362.3	357.1	353.4
486.0	7.5°	475.4	463.6	441.0	412.0	378.7	342.2	316.7	289.1	278.5	272.7
502.1	10°	488.6	472.5	438.1	387.3	333.3	283.6	247.2	217.3	205.8	201.0
519.6	12.5°	503.3	483.5	432.9	356.6	283.6	224.2	188.6	174.8	173.1	173.1
540.6	15°	520.8	496.7	424.0	320.4	231.7	177.4	164.8	165.4	167.1	168.2
561.0	17.5°	538.9	510.7	410.0	279.9	185.7	159.6	159.9	160.8	162.2	163.4
583.1	20°	558.4	524.8	391.3	236.8	159.3	154.5	155.3	156.2	157.3	157.9
603.7	22.5°	579.3	538.0	369.2	194.6	150.4	150.1	150.4	151.3	152.7	152.7
627.9	25°	601.7	552.6	343.9	163.9	145.8	145.8	146.4	147.0	148.1	148.1
651.1	27.5°	624.7	566.1	317.2	147.9	141.8	141.5	141.5	142.4	143.0	143.3
674.1	30°	650.0	581.9	290.5	144.4	138.7	137.2	136.4	136.9	137.5	137.8
698.2	32.5°	675.8	597.1	266.7	145.8	135.5	132.9	130.1	129.5	129.5	130.6
723.2	35°	704.5	613.8	248.3	150.7	133.8	126.6	122.0	119.4	119.7	121.4
753.0	37.5°	739.0	633.9	234.8	155.0	132.6	119.4	112.0	108.8	106.8	108.8
794.1	40°	784.0	663.5	225.1	158.5	131.2	111.1	101.1	95.9	92.2	93.3
857.8	42.5°	850.4	710.0	221.3	158.8	128.0	101.3	89.9	83.0	77.5	77.8
953.7	45°	943.4	783.5	240.6	155.0	121.2	90.7	78.1	68.9	65.5	64.6
1097.0	47.5°	1070.8	890.5	285.1	147.3	111.1	80.4	66.6	58.9	56.3	54.8
1285.0	50°	1241.7	1028.1	334.5	138.7	101.1	70.6	57.1	52.3	50.5	49.1
1508.1	52.5°	1439.7	1167.6	374.9	130.1	91.0	62.0	51.1	48.2	46.8	45.6
1723.4	55°	1621.5	1263.8	372.6	120.9	81.2	55.1	46.8	45.1	43.4	42.2
1908.8	57.5°	1734.6	1277.3	307.2	110.8	70.0	49.7	42.8	41.6	39.6	38.2
2069.3	60°	1786.5	1200.3	215.3	97.6	58.9	44.5	38.5	37.9	35.3	33.3
2221.2	62.5°	1796.0	1057.3	143.5	81.2	49.1	39.6	34.2	33.3	29.9	26.4
2344.6	65°	1757.6	852.9	99.3	63.4	41.9	34.5	29.3	27.6	23.8	20.4
2373.9	67.5°	1635.8	598.9	69.2	45.6	35.6	27.3	23.3	22.7	19.8	16.9
2224.6	70°	1412.8	341.3	46.2	34.2	28.1	18.7	18.4	18.9	16.1	13.8
1817.6	72.5°	1083.2	156.2	28.7	25.0	19.2	12.6	14.6	14.9	12.3	10.3
1134.0	75°	637.6	66.9	18.1	16.1	9.8	8.3	10.6	10.9	8.3	6.6
414.6	77.5°	217.0	25.3	11.5	9.5	4.9	4.6	6.9	6.9	4.6	2.6
83.3	80°	49.4	9.5	5.7	3.7	2.3	2.0	2.3	2.0	1.1	0.3
25.6	82.5°	14.1	3.7	2.3	1.4	0.9	0.9	0.3	0.0	0.0	0.0
8.9	85°	4.0	1.7	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
3.2	87.5°	1.7	0.3	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>
460.8
420.9
355.1
273.6
201.0
173.1
168.2
163.4
158.2
153.3
148.4
143.5
138.4
131.5
122.3
108.2
92.7
76.7
63.4
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48.8
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