

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: P945263

Luminaire Tested: **GALN-SB1B-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945263
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-SB1B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 450mA 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: 4769 lumens
Efficiency: N/A
Efficacy: 119.8 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

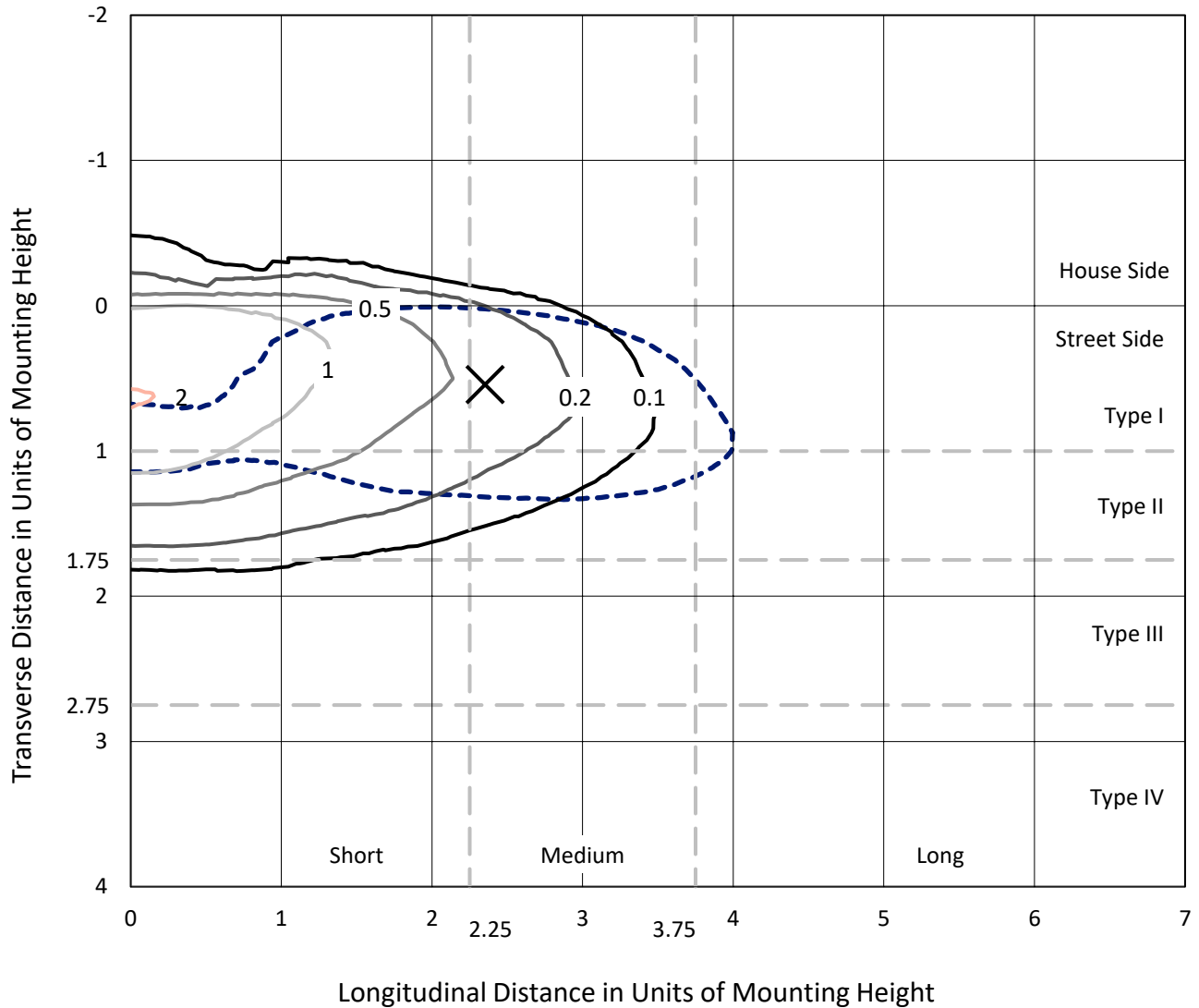
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

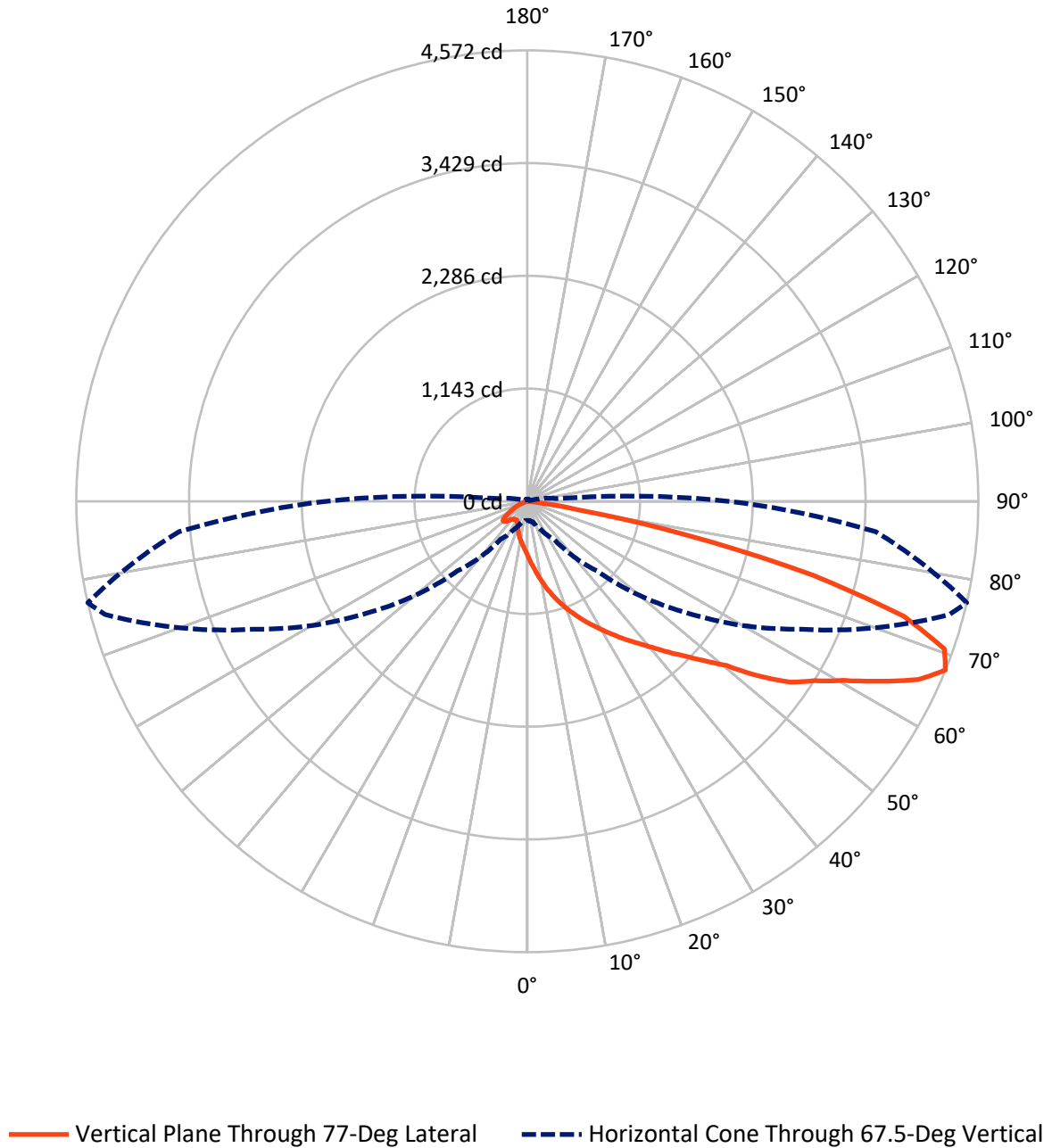
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	350.9	0.0	350.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4418.1	0.0	4418.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	4769.0	0.0	4769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.2
10°-20°	196.6	4.1
20°-30°	379.3	8.0
30°-40°	658.5	13.8
40°-50°	956.1	20.0
50°-60°	1098.0	23.0
60°-70°	953.2	20.0
70°-80°	449.0	9.4
80°-90°	22.2	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°	4769.0	100.0
0°-180°	4769.0	100.0

Coefficient of Utilization



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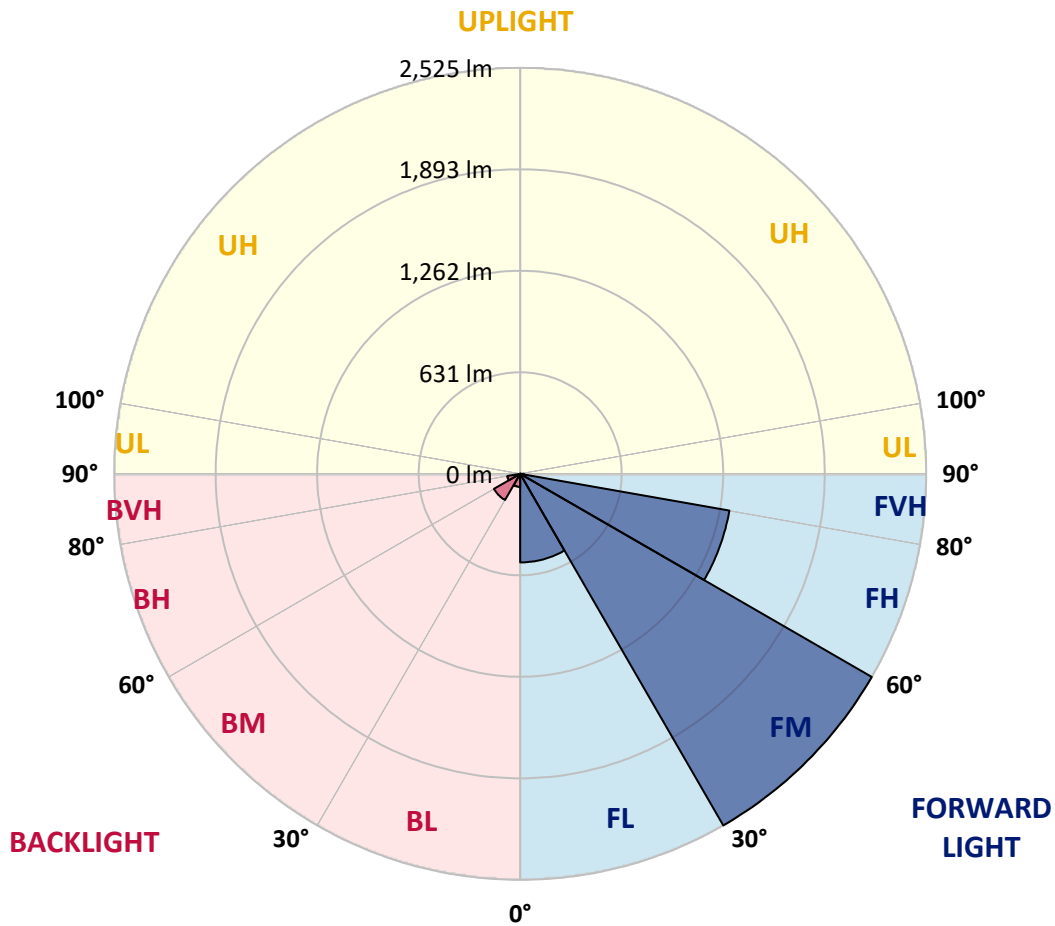
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.8	11.5			
FM (30°-60°)	2524.6	52.9			
FH (60°-80°)	1321.0	27.7			G1/1800
FVH (80°-90°)	21.8	0.5			G1/100
BL (0°-30°)	81.2	1.7	B0/110		
BM (30°-60°)	188.0	3.9	B0/220		
BH (60°-80°)	81.2	1.7	B0/110		G0/110
BVH (80°-90°)	0.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	761.4	766.1	759.3	746.3	726.7	714.0	682.9	653.6	621.0	610.6
5°	928.1	932.3	924.6	910.3	884.3	859.4	818.5	757.2	693.6	673.1
7.5°	1051.6	1054.0	1051.0	1038.0	1013.1	985.0	939.4	866.8	772.3	749.8
10°	1140.4	1148.1	1147.3	1142.2	1125.6	1102.8	1054.3	971.6	860.6	831.6
12.5°	1199.4	1208.0	1213.0	1224.3	1223.4	1208.9	1166.2	1078.8	948.5	914.5
15°	1216.6	1225.7	1245.0	1271.0	1294.1	1301.5	1271.6	1184.0	1045.4	1001.8
17.5°	1206.8	1221.0	1244.1	1285.3	1335.9	1369.4	1366.1	1285.6	1133.3	1083.6
20°	1228.4	1242.0	1260.1	1294.7	1353.7	1414.4	1438.7	1382.7	1220.7	1168.6
22.5°	1348.0	1345.7	1347.4	1353.1	1388.3	1448.4	1498.5	1470.9	1307.2	1253.9
25°	1537.6	1526.9	1508.8	1478.3	1469.5	1498.5	1550.6	1549.1	1398.4	1341.2
27.5°	1754.9	1753.2	1710.8	1637.4	1595.9	1584.7	1609.5	1625.2	1488.7	1427.7
30°	1963.1	1967.9	1910.7	1829.0	1752.9	1708.7	1686.2	1697.5	1580.5	1521.0
32.5°	2144.4	2149.4	2087.2	1991.6	1897.4	1844.1	1796.7	1768.9	1680.6	1615.8
35°	2297.5	2302.5	2231.1	2125.4	2025.0	1976.7	1923.1	1847.0	1781.3	1720.9
37.5°	2434.3	2432.8	2337.2	2230.5	2131.9	2093.7	2065.6	1943.3	1884.9	1826.6
40°	2515.1	2521.4	2439.6	2322.0	2226.4	2198.6	2196.8	2062.6	2004.6	1948.0
42.5°	2538.8	2549.8	2490.6	2394.0	2307.2	2277.0	2323.5	2191.7	2143.8	2088.7
45°	2496.2	2506.8	2479.9	2413.0	2362.3	2342.8	2432.5	2325.6	2292.4	2237.9
47.5°	2371.8	2385.1	2391.6	2377.4	2376.8	2396.7	2530.2	2466.6	2468.9	2413.3
50°	2131.0	2153.5	2213.4	2263.7	2341.6	2439.3	2625.3	2619.4	2667.9	2620.0
52.5°	1693.3	1725.3	1931.4	2069.1	2244.2	2431.3	2729.8	2864.6	3017.1	2946.9
55°	1360.8	1360.8	1528.4	1786.0	2054.0	2378.6	2775.4	3023.9	3254.9	3238.3
57.5°	1109.3	1122.7	1229.6	1457.3	1778.9	2253.0	2803.6	3124.0	3446.5	3434.4
60°	684.7	713.4	915.4	1140.1	1465.9	2029.5	2785.8	3225.3	3679.0	3688.7
62.5°	385.6	396.2	486.3	820.3	1139.9	1728.9	2649.9	3281.8	3976.3	4017.8
65°	266.2	271.6	306.2	510.5	790.1	1376.5	2384.2	3246.6	4274.2	4358.0
67.5°	193.4	196.0	217.7	311.8	468.8	998.0	1967.9	3068.9	4432.1	4572.1
70°	148.7	150.4	166.1	204.9	276.9	616.0	1429.2	2715.6	4317.8	4485.1
72.5°	120.8	122.6	134.7	151.6	183.6	364.3	866.2	2205.4	3813.1	3993.8
75°	101.9	104.2	115.2	126.2	143.9	234.0	406.3	1535.8	2867.5	2986.0
77.5°	56.6	52.1	93.6	104.5	121.4	148.1	190.1	903.8	1606.0	1638.9
80°	35.2	36.4	74.3	84.1	93.3	74.6	87.1	348.0	556.7	528.9
82.5°	2.1	4.7	57.2	60.7	64.0	32.0	32.9	118.2	134.2	123.2
85°	0.0	0.0	26.1	21.0	22.2	9.2	9.5	27.5	18.1	19.5
87.5°	0.0	0.0	0.0	0.6	0.0	0.9	1.8	2.4	0.9	1.2
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°
549.9	0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
578.1	2.5°	557.3	536.6	494.6	453.4	419.9	388.8	366.6	345.6	334.9	334.3
615.4	5°	574.2	530.7	446.6	372.3	312.4	264.5	233.4	211.1	199.9	196.0
661.3	7.5°	597.9	532.5	404.5	301.2	230.7	189.5	171.8	164.7	162.3	159.6
713.1	10°	627.8	536.6	366.9	242.5	181.8	161.1	154.0	151.0	149.3	147.5
771.5	12.5°	661.3	540.5	329.6	201.4	159.9	149.3	144.2	140.7	138.3	136.2
831.3	15°	693.9	542.8	290.8	172.7	148.7	140.1	134.7	130.9	127.6	125.3
889.9	17.5°	726.1	546.1	254.4	155.5	139.5	130.9	125.6	120.8	118.2	115.5
951.5	20°	762.0	545.5	220.0	143.3	130.3	121.7	116.1	111.6	109.0	106.0
1016.7	22.5°	795.1	542.5	189.8	133.0	120.8	112.5	106.3	101.9	99.2	96.8
1083.3	25°	833.3	540.2	164.7	123.5	111.9	103.6	96.8	92.7	89.7	87.7
1150.2	27.5°	870.1	536.6	146.3	114.9	103.4	95.4	88.8	84.1	81.4	80.0
1219.2	30°	906.2	535.7	139.5	106.6	95.7	87.7	81.1	76.7	74.6	74.0
1295.0	32.5°	949.7	538.1	142.4	103.6	88.5	80.6	74.3	71.1	69.0	69.0
1379.4	35°	996.2	537.5	146.9	106.3	83.8	73.4	68.7	66.6	64.6	64.6
1473.0	37.5°	1054.6	538.4	150.4	110.8	82.0	67.5	64.9	62.2	61.0	61.0
1575.5	40°	1141.6	567.7	148.7	114.6	81.4	63.4	58.0	57.2	56.3	56.3
1691.3	42.5°	1248.2	631.4	151.0	114.9	81.1	60.4	53.3	55.1	53.0	52.7
1821.9	45°	1364.9	701.0	166.1	108.7	80.8	58.9	50.9	53.0	49.8	49.8
1973.2	47.5°	1480.7	770.0	181.5	99.8	80.0	58.6	48.9	47.7	46.8	47.1
2170.4	50°	1640.3	826.2	187.5	87.7	77.9	58.0	45.0	45.3	44.7	45.3
2448.5	52.5°	1814.2	838.1	180.4	74.0	72.0	56.3	42.3	43.5	43.2	43.8
2644.3	55°	1922.6	825.3	149.0	61.6	62.8	49.2	39.7	42.1	42.1	42.1
2835.6	57.5°	2034.5	771.2	105.7	50.0	52.1	40.3	37.3	40.6	40.3	40.0
3066.0	60°	2115.0	683.5	69.6	41.2	41.5	33.2	34.6	38.2	37.9	36.4
3303.5	62.5°	2175.2	586.7	44.7	34.9	31.7	29.9	31.7	34.6	33.5	30.2
3504.8	65°	2168.4	452.5	34.4	29.9	26.1	26.1	27.5	30.2	26.7	21.3
3543.3	67.5°	2041.9	306.2	28.4	25.2	21.9	21.6	22.8	25.2	22.8	18.1
3346.1	70°	1815.9	200.2	22.8	19.5	17.5	16.0	18.4	21.6	19.2	14.5
2848.6	72.5°	1473.9	122.0	17.2	14.2	12.7	10.4	14.5	17.8	15.4	10.7
1980.9	75°	953.6	62.2	11.8	9.2	6.8	6.2	10.7	13.3	10.7	6.5
878.9	77.5°	364.8	26.1	6.5	4.1	3.6	3.0	5.9	8.0	4.4	1.5
170.3	80°	70.2	11.0	3.3	2.1	1.8	1.2	0.9	0.6	0.0	0.0
30.2	82.5°	12.1	3.6	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
5.9	85°	4.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	87.5°	1.5	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>
549.9
333.8
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87.4
80.0
73.7
69.0
64.6
61.0
56.3
52.4
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43.8
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