

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: P945402

Luminaire Tested: **GALN-SB1B-840-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-840-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

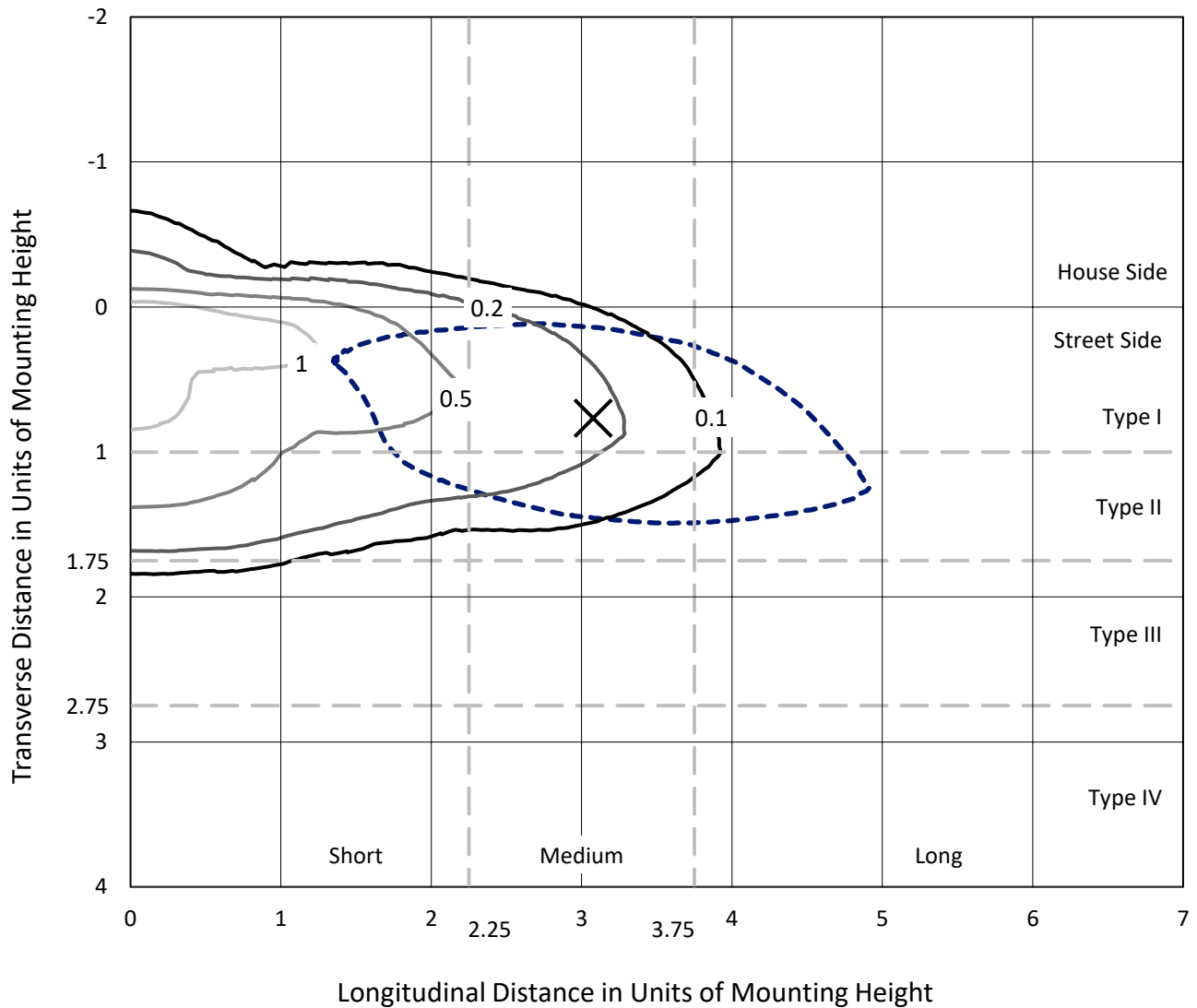
Lumens per Lamp: N/A  
Luminaire Lumens: 4367 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

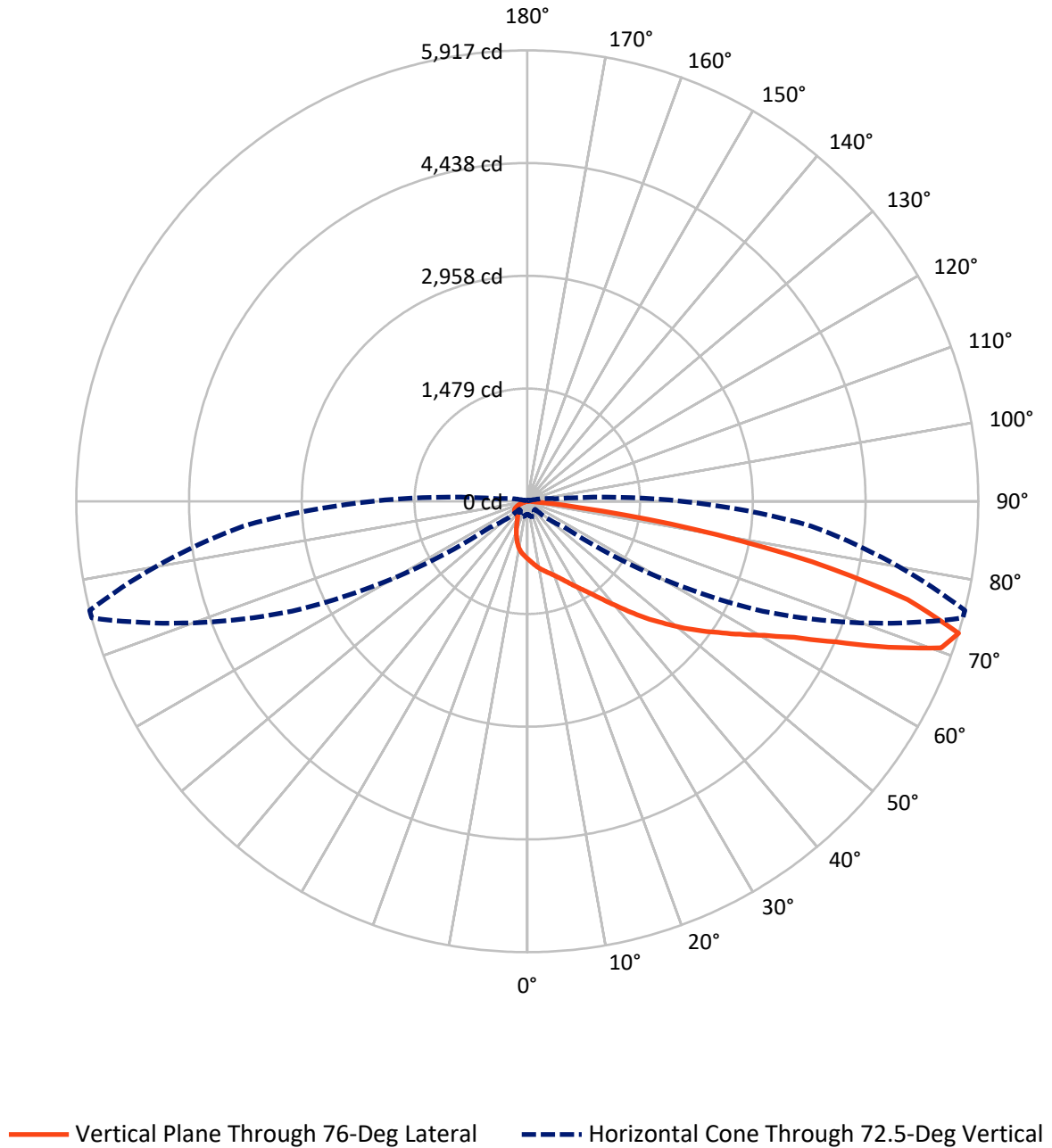
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	447.0	0.0	447.0
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	3920.0	0.0	3920.0
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	4367.0	0.0	4367.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.6	1.6
10°-20°	184.0	4.2
20°-30°	291.3	6.7
30°-40°	450.6	10.3
40°-50°	684.5	15.7
50°-60°	943.6	21.6
60°-70°	996.8	22.8
70°-80°	683.9	15.7
80°-90°	63.6	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°	4367.0	100.0
0°-180°	4367.0	100.0

**Coefficient of Utilization**



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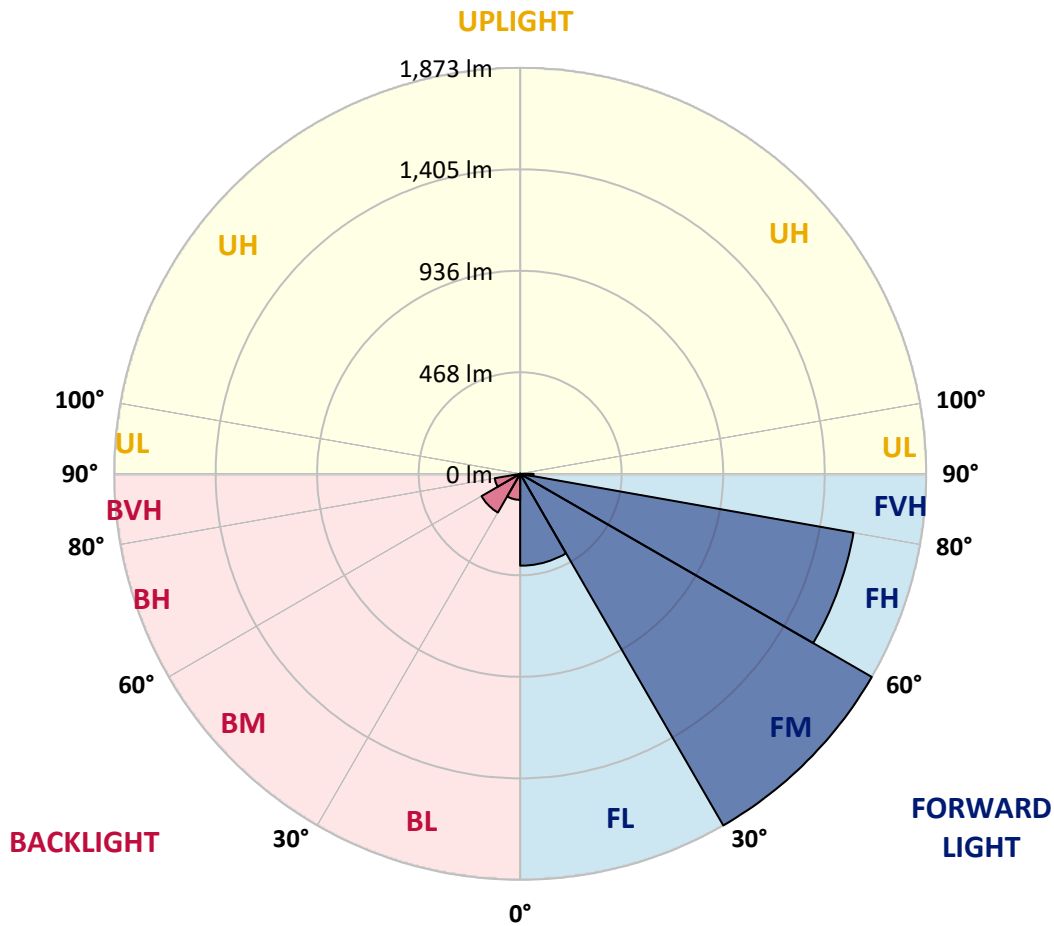
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.8	9.7			
FM (30°-60°)	1872.9	42.9			
FH (60°-80°)	1561.4	35.8			G1/1800
FVH (80°-90°)	61.9	1.4			G1/100
BL (0°-30°)	120.1	2.8	B1/500		
BM (30°-60°)	205.8	4.7	B0/220		
BH (60°-80°)	119.3	2.7	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7
2.5°	877.3	865.7	868.0	856.4	851.0	837.9	824.3	806.5	786.7	786.7
5°	969.7	962.3	962.3	948.7	938.2	917.8	893.5	862.0	824.6	820.9
7.5°	1026.3	1021.8	1024.6	1016.7	1008.2	986.9	958.1	917.0	864.0	859.5
10°	1037.4	1037.1	1045.0	1047.3	1052.9	1042.2	1016.4	969.1	902.8	896.3
12.5°	994.6	989.2	1008.8	1031.7	1064.0	1078.4	1065.1	1016.7	938.2	929.2
15°	924.3	925.5	944.2	979.6	1033.4	1085.0	1102.2	1063.1	974.2	963.4
17.5°	884.1	879.9	896.0	927.7	987.2	1060.0	1119.5	1106.5	1012.4	1000.3
20°	879.3	879.0	882.7	897.1	942.5	1024.3	1117.5	1148.7	1057.5	1043.3
22.5°	912.7	912.2	909.0	906.2	918.7	989.5	1109.0	1188.9	1111.3	1096.0
25°	964.0	963.1	958.3	941.1	928.9	970.8	1101.1	1226.3	1175.0	1158.0
27.5°	1026.6	1026.0	1017.3	991.2	959.7	972.5	1097.1	1264.8	1248.7	1232.0
30°	1103.4	1102.2	1084.1	1047.3	1006.2	999.4	1102.5	1308.2	1325.5	1312.7
32.5°	1199.7	1196.6	1172.8	1117.3	1059.7	1035.4	1112.7	1352.7	1416.4	1404.5
35°	1274.2	1269.4	1255.5	1206.5	1121.8	1079.6	1136.5	1405.3	1525.7	1515.3
37.5°	1338.2	1333.4	1322.1	1281.8	1210.7	1135.9	1174.8	1475.6	1654.9	1649.8
40°	1407.3	1399.4	1394.0	1351.0	1286.7	1217.3	1229.4	1557.8	1803.6	1804.2
42.5°	1460.6	1457.5	1458.0	1424.9	1360.0	1313.6	1302.0	1650.4	1981.8	1987.2
45°	1506.2	1503.6	1514.1	1490.9	1434.0	1376.7	1386.9	1755.2	2176.7	2187.8
47.5°	1541.3	1544.2	1559.2	1544.2	1510.7	1421.2	1462.3	1868.2	2381.5	2382.9
50°	1576.4	1577.6	1602.5	1595.1	1581.5	1477.6	1531.7	1994.6	2597.4	2599.9
52.5°	1587.5	1585.8	1625.5	1643.6	1644.2	1547.3	1621.5	2132.2	2809.0	2817.2
55°	1530.8	1535.7	1599.7	1673.3	1702.5	1643.6	1742.7	2306.5	3034.5	3037.9
57.5°	1253.8	1280.4	1422.1	1592.9	1740.2	1781.5	1916.9	2510.1	3294.8	3291.7
60°	760.9	792.6	962.0	1335.9	1617.2	1920.1	2173.6	2825.7	3579.2	3570.5
62.5°	425.5	435.1	489.2	799.7	1230.0	1832.0	2424.3	3231.1	3961.1	3931.3
65°	313.6	316.7	329.5	391.8	604.5	1409.0	2369.3	3715.8	4497.6	4444.6
67.5°	272.5	275.6	288.1	296.6	270.0	740.2	1952.1	3984.6	5178.9	5109.5
70°	229.5	231.2	251.3	256.9	193.2	281.6	1254.1	3901.6	5809.5	5759.9
72.5°	171.1	177.9	207.1	220.7	155.0	149.6	590.4	3411.2	5916.3	5916.9
75°	116.1	122.4	155.8	181.6	119.5	104.8	238.2	2547.2	5151.7	5151.7
77.5°	79.3	84.4	108.5	142.5	90.6	72.0	123.5	1616.7	3695.9	3826.0
80°	35.1	38.2	70.0	103.4	68.8	46.5	70.0	885.2	2235.1	2207.6
82.5°	17.3	19.8	44.8	64.6	44.5	28.6	36.8	421.0	724.3	688.4
85°	3.4	4.5	24.1	27.5	20.7	12.7	13.9	129.5	87.2	99.7
87.5°	0.0	0.0	7.4	5.1	2.3	2.8	2.8	11.6	6.8	7.9
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°
754.7	0°	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7
767.4	2.5°	757.2	746.7	723.8	701.1	677.9	656.6	641.9	627.2	618.1	614.1
784.4	5°	763.2	741.9	693.8	643.3	593.5	544.7	508.2	473.9	463.2	445.3
804.5	7.5°	772.5	737.9	662.0	577.0	496.0	424.6	373.1	332.0	315.6	299.7
821.8	10°	778.7	730.6	620.1	506.5	396.9	316.7	267.4	237.7	226.9	217.3
837.9	12.5°	781.3	717.0	571.9	427.5	308.8	241.4	211.9	198.0	194.3	190.9
853.2	15°	783.6	703.7	518.1	351.3	243.9	202.0	190.4	185.8	183.3	181.0
868.8	17.5°	785.5	686.7	456.6	285.5	205.9	186.1	180.4	175.6	173.7	171.1
891.2	20°	792.3	670.2	401.7	235.7	185.3	174.8	168.6	163.5	161.8	160.1
922.9	22.5°	805.1	656.9	348.4	202.0	172.8	163.2	155.2	149.6	148.4	147.3
961.4	25°	820.4	640.5	298.3	180.2	160.6	149.9	141.1	136.3	135.1	135.4
1005.9	27.5°	839.9	622.4	255.2	166.3	149.9	137.4	127.5	123.8	124.4	125.5
1057.2	30°	861.5	605.7	221.5	156.7	140.2	126.3	116.4	113.9	115.9	117.6
1125.8	32.5°	893.5	590.9	198.0	149.0	131.7	117.3	109.3	106.2	108.5	110.8
1213.3	35°	937.1	583.6	184.7	142.5	124.4	110.2	102.3	100.0	102.3	102.8
1320.1	37.5°	990.6	583.0	179.0	137.1	117.6	104.2	95.5	94.6	96.3	96.6
1448.4	40°	1059.7	586.7	174.8	133.1	110.5	97.4	89.2	88.4	88.9	90.9
1602.8	42.5°	1147.3	602.0	168.8	128.0	102.8	90.6	84.1	82.2	81.9	84.1
1775.6	45°	1257.2	635.7	160.9	119.8	96.0	85.0	78.5	76.2	75.4	75.9
1954.1	47.5°	1377.0	677.0	153.0	112.2	91.2	80.5	73.9	71.1	69.7	69.7
2120.9	50°	1493.2	723.8	147.6	104.2	87.8	76.2	69.1	66.3	64.0	63.5
2292.6	52.5°	1608.2	769.7	143.3	96.3	83.9	70.8	64.6	61.5	58.9	57.8
2462.5	55°	1713.0	813.3	136.0	88.7	78.8	65.2	60.1	56.9	53.8	51.8
2634.8	57.5°	1813.6	849.6	122.4	80.7	70.8	59.8	55.2	51.8	48.2	45.6
2809.0	60°	1905.1	868.3	105.4	72.2	62.9	54.1	49.9	46.7	41.9	37.7
2980.4	62.5°	1974.7	860.9	87.0	62.6	54.7	49.0	43.6	40.5	34.8	29.7
3185.8	65°	2046.1	820.7	69.4	52.4	47.9	42.2	36.5	33.4	26.9	21.5
3463.7	67.5°	2138.8	734.8	54.7	43.6	41.4	33.4	28.6	26.6	22.1	17.0
3761.9	70°	2198.2	570.8	42.5	35.4	34.0	24.4	22.1	21.8	17.6	13.0
3741.8	72.5°	2035.1	374.2	32.6	26.9	24.4	15.9	17.0	17.0	12.7	8.8
3280.1	75°	1698.8	219.0	23.5	19.3	13.9	10.2	11.6	11.6	7.9	4.2
2337.9	77.5°	1213.3	116.7	15.6	11.9	7.1	4.5	6.2	5.9	2.5	0.3
916.4	80°	464.0	40.2	7.4	4.8	2.0	0.8	0.6	0.3	0.3	0.0
143.1	82.5°	70.8	10.5	1.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
30.3	85°	12.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.9	87.5°	2.8	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>
754.7
614.7
446.4
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171.1
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124.9
117.0
110.2
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96.0
90.6
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