

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: P939144

Luminaire Tested: **GALN-SB1C-835-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5074 lumens
Efficiency: N/A
Efficacy: 93.3 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

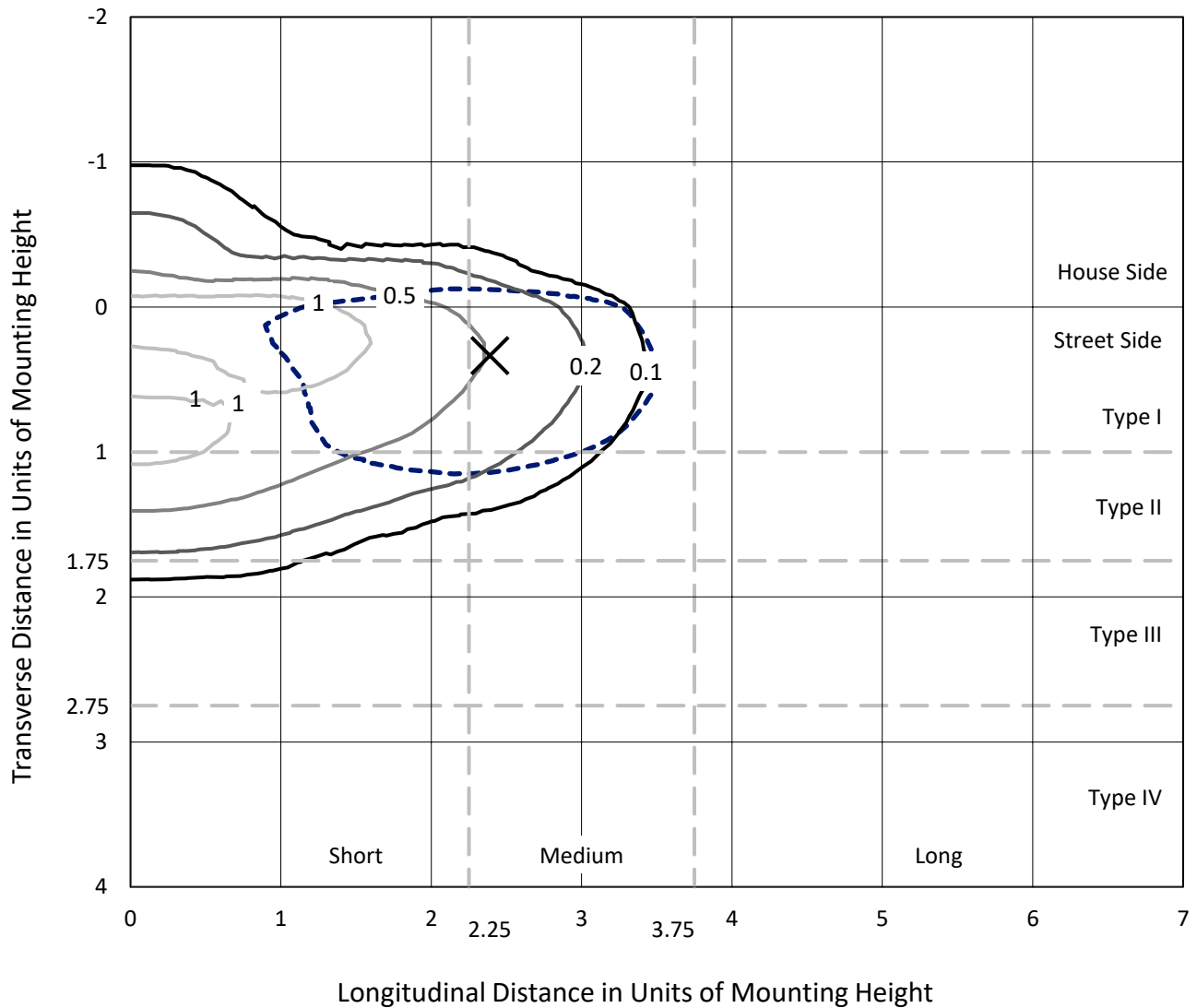
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

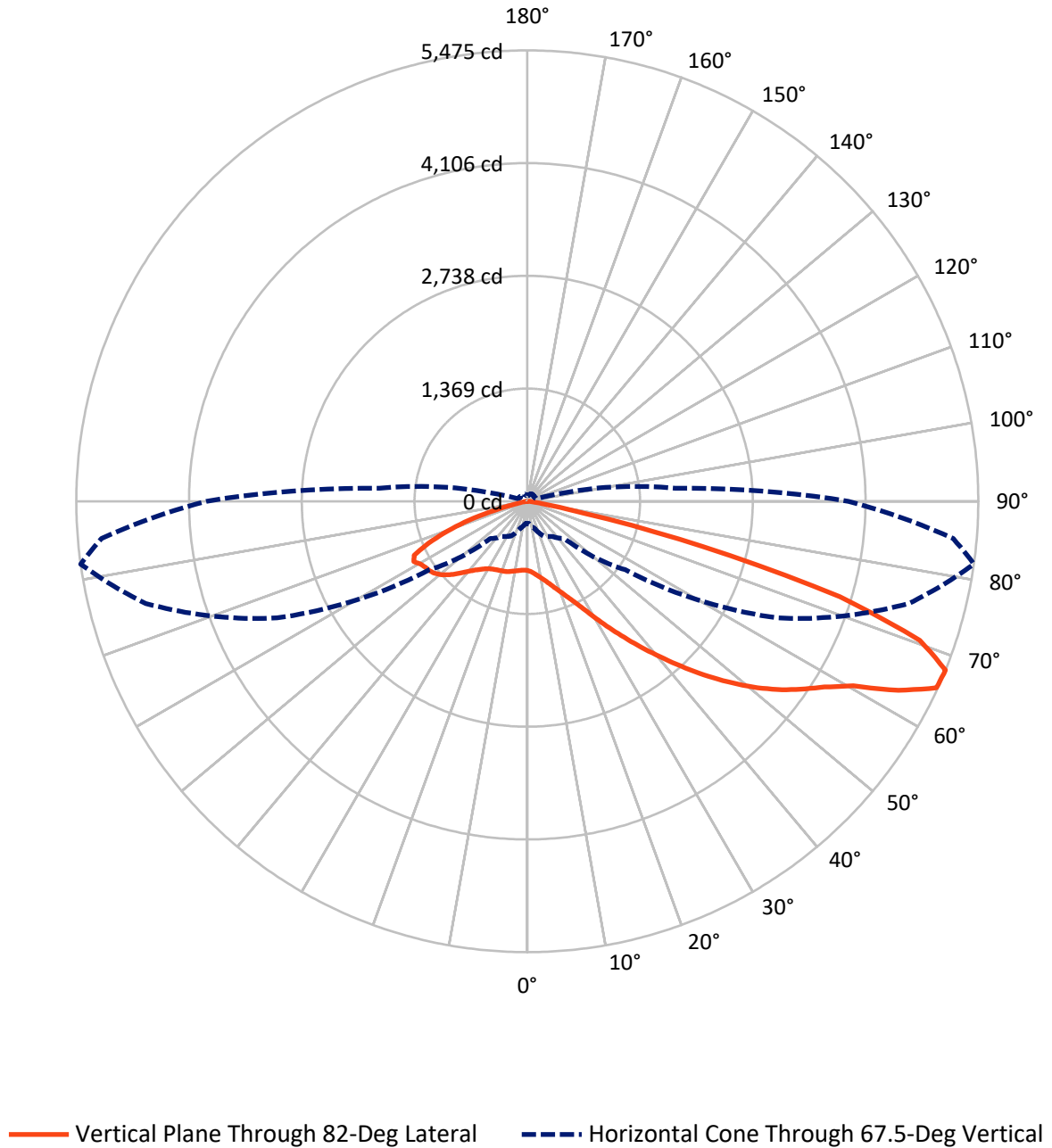
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	919.1	0.0	919.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4154.9	0.0	4154.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	5074.0	0.0	5074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.5
10°-20°	194.6	3.8
20°-30°	311.7	6.1
30°-40°	551.2	10.9
40°-50°	965.7	19.0
50°-60°	1288.0	25.4
60°-70°	1199.1	23.6
70°-80°	460.2	9.1
80°-90°	28.6	0.6
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°	5074.0	100.0
0°-180°	5074.0	100.0

Coefficient of Utilization



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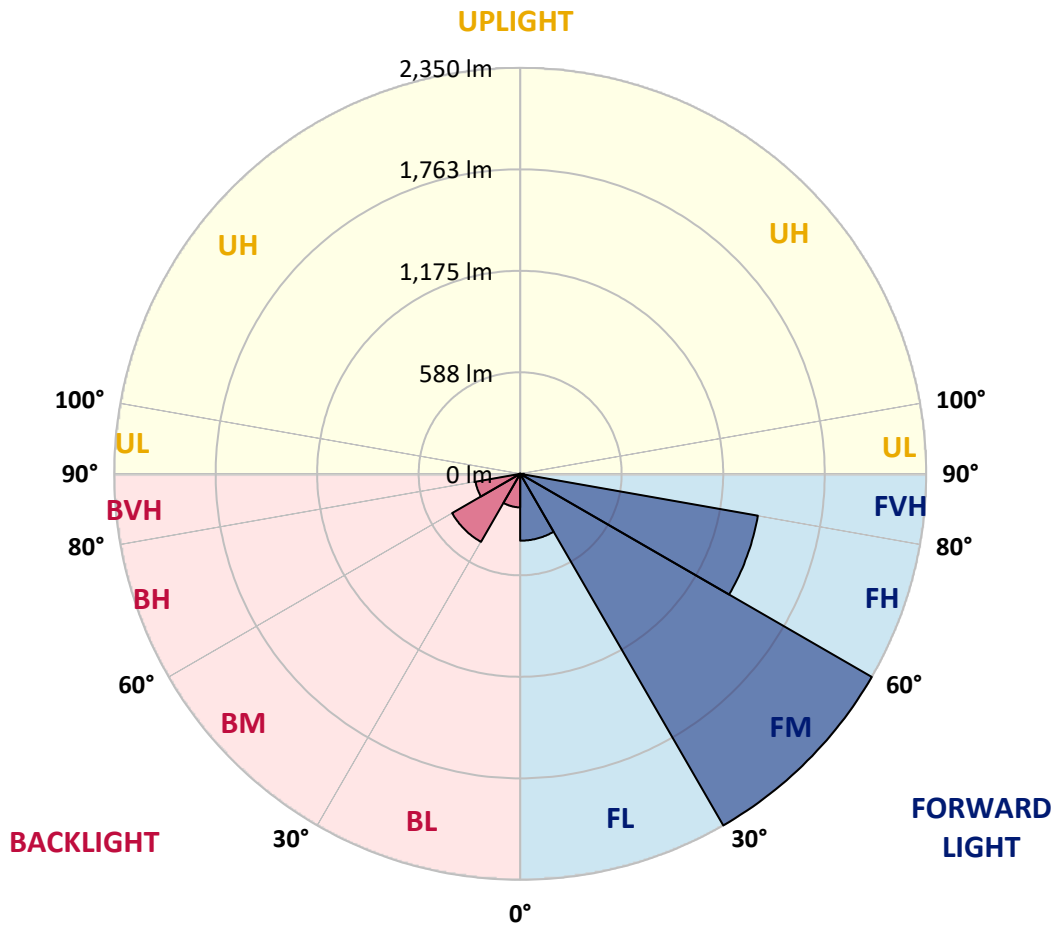
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.1	7.6			
FM (30°-60°)	2350.1	46.3			
FH (60°-80°)	1396.9	27.5			G1/1800
FVH (80°-90°)	20.8	0.4			G1/100
BL (0°-30°)	194.1	3.8	B1/500		
BM (30°-60°)	454.9	9.0	B1/1000		
BH (60°-80°)	262.3	5.2	B1/500		G1/500
BVH (80°-90°)	7.8	0.2			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°	82°
0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	888.4	893.6	890.6	889.2	886.6	883.0	880.0	870.9	861.4	855.2
5°	906.3	911.5	911.1	912.6	914.4	915.5	914.7	904.5	891.0	880.4
7.5°	891.0	896.8	901.6	908.9	921.7	935.2	941.8	939.6	925.7	911.1
10°	847.5	853.7	865.1	882.2	909.3	938.5	963.0	974.3	965.5	949.5
12.5°	767.9	774.1	796.4	833.6	878.9	929.7	976.5	1006.8	1009.0	992.9
15°	678.4	684.6	708.3	755.1	824.2	905.6	983.8	1041.1	1060.5	1046.6
17.5°	622.9	628.3	646.2	683.9	755.8	857.4	981.2	1077.7	1121.9	1110.9
20°	606.1	610.8	619.2	645.5	705.4	807.3	964.4	1112.0	1188.0	1181.8
22.5°	624.0	628.3	630.9	642.6	680.2	774.5	943.2	1147.1	1264.7	1265.5
25°	665.2	669.6	666.7	674.0	690.4	764.2	935.2	1188.4	1361.2	1369.2
27.5°	733.2	733.6	726.6	726.2	728.8	779.6	943.6	1232.6	1482.8	1497.8
30°	869.4	864.0	837.3	808.4	795.3	825.6	967.0	1284.8	1626.4	1653.1
32.5°	1079.5	1071.5	1022.5	953.5	884.1	899.8	1009.0	1344.4	1782.7	1831.0
35°	1307.5	1305.3	1254.1	1151.5	1030.2	1005.3	1077.3	1422.5	1953.3	2030.1
37.5°	1519.3	1518.2	1489.0	1368.1	1220.5	1152.6	1186.9	1524.8	2136.0	2247.1
40°	1713.0	1716.3	1687.0	1578.9	1430.2	1341.4	1336.0	1651.2	2339.1	2483.4
42.5°	1880.3	1883.9	1854.3	1774.3	1637.3	1550.4	1519.0	1806.1	2537.5	2737.3
45°	1993.9	2016.5	2012.2	1948.2	1850.0	1759.7	1738.9	2000.5	2763.6	3006.5
47.5°	2026.0	2046.9	2079.7	2088.5	2028.6	1939.8	1964.7	2234.6	2992.3	3276.1
50°	1946.8	1966.1	2034.4	2125.4	2167.0	2139.7	2184.2	2485.6	3226.5	3545.0
52.5°	1790.4	1810.1	1896.4	2040.3	2210.2	2296.4	2404.5	2732.9	3453.3	3799.6
55°	1564.3	1585.1	1695.8	1858.7	2128.0	2361.0	2588.3	2979.9	3661.2	4028.7
57.5°	1256.7	1272.0	1387.1	1615.1	1921.2	2296.7	2723.8	3249.5	3857.0	4253.7
60°	819.0	832.6	966.3	1220.5	1578.5	2081.9	2750.8	3550.1	4117.1	4546.3
62.5°	544.7	553.8	633.1	819.8	1111.7	1669.5	2592.6	3790.1	4498.5	5055.6
65°	373.7	382.9	462.1	592.2	718.2	1104.3	2137.8	3758.4	4844.1	5460.0
67.5°	266.7	274.4	341.6	464.3	519.8	641.5	1449.2	3352.1	4794.4	5475.3
70°	191.1	195.4	251.0	361.7	413.2	385.4	805.9	2563.8	4197.8	5056.0
72.5°	133.7	135.2	174.3	275.4	332.8	281.3	383.6	1709.3	3175.0	3968.4
75°	90.6	92.4	117.3	202.0	267.0	214.8	203.1	916.6	1863.8	2196.6
77.5°	55.5	56.3	75.6	138.1	199.8	163.7	130.8	388.3	721.1	708.0
80°	31.4	31.4	48.2	85.8	136.3	105.6	91.7	165.1	228.3	200.6
82.5°	17.5	17.9	35.1	53.3	90.2	62.5	50.4	76.4	98.6	87.3
85°	7.3	8.0	21.6	25.2	43.1	31.1	20.5	32.1	36.5	32.5
87.5°	0.7	1.1	6.6	4.7	5.1	6.2	2.9	6.2	5.1	5.1
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°
840.6	0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
853.0	2.5°	846.1	840.6	826.7	810.6	789.4	779.2	765.3	755.8	747.8	748.5
874.2	5°	862.5	848.6	817.6	778.9	730.6	696.3	659.8	634.6	614.1	609.7
903.4	7.5°	885.2	863.2	808.8	739.0	657.6	595.8	540.7	505.2	480.0	472.0
938.9	10°	914.4	882.6	797.5	689.0	571.7	493.2	434.0	406.2	389.1	383.2
980.5	12.5°	948.4	904.9	782.5	628.0	483.3	407.7	370.1	356.2	350.7	348.9
1031.6	15°	991.1	932.6	759.9	555.6	408.4	355.5	339.4	337.6	338.3	337.6
1093.0	17.5°	1041.9	963.0	723.0	481.1	358.0	328.8	322.9	324.4	326.2	325.9
1161.7	20°	1097.4	992.9	675.8	415.0	323.7	309.8	306.5	308.0	309.4	308.7
1241.0	22.5°	1160.6	1025.1	623.6	363.5	300.7	292.3	288.6	289.0	289.0	287.5
1341.4	25°	1236.2	1060.5	568.8	327.0	283.1	276.5	272.2	270.7	268.5	264.1
1463.5	27.5°	1326.5	1098.1	516.2	301.4	269.2	263.0	257.9	254.3	248.8	241.5
1609.9	30°	1428.0	1143.8	471.6	285.3	258.3	252.1	246.2	240.7	232.7	223.6
1778.4	32.5°	1547.5	1192.8	439.1	274.7	248.4	241.8	234.9	228.3	219.6	210.4
1967.6	35°	1689.9	1251.9	420.1	267.4	240.7	232.0	224.3	217.0	210.4	202.4
2173.3	37.5°	1844.5	1314.8	414.3	263.8	235.6	222.1	213.3	208.2	207.5	202.7
2395.7	40°	2013.6	1389.3	418.7	261.6	230.1	212.6	203.1	202.0	203.8	195.4
2633.6	42.5°	2192.6	1477.7	426.0	259.0	222.5	203.1	194.0	194.0	192.5	180.8
2884.9	45°	2386.2	1579.6	433.3	252.8	213.3	193.6	186.7	184.1	177.9	166.6
3137.7	47.5°	2581.3	1683.4	438.7	241.5	202.4	185.6	179.4	173.5	164.4	154.2
3385.7	50°	2766.5	1776.5	432.9	224.7	190.0	177.9	171.3	163.3	153.4	146.5
3620.6	52.5°	2932.0	1857.3	408.1	204.9	176.8	169.9	164.0	155.6	147.6	140.3
3832.5	55°	3076.0	1922.7	364.2	186.3	165.1	162.9	157.1	146.5	135.5	129.3
4042.6	57.5°	3214.0	1972.3	309.4	171.0	154.5	155.3	146.5	137.0	126.8	120.2
4325.7	60°	3397.8	2038.8	253.9	156.7	143.2	145.4	135.9	129.0	116.2	107.8
4811.2	62.5°	3691.5	2142.2	201.7	139.2	130.1	130.8	126.8	118.4	103.0	93.2
5171.0	65°	3924.6	2104.2	158.9	120.2	115.1	116.2	116.2	107.0	90.6	79.3
5190.4	67.5°	3898.3	1801.7	126.8	101.6	100.8	101.6	104.1	96.4	80.4	71.2
4795.1	70°	3591.0	1433.1	101.6	84.4	87.7	85.8	93.2	88.0	72.3	63.2
3717.4	72.5°	2930.2	1032.4	77.4	69.8	67.2	70.1	84.0	79.3	60.3	50.0
1969.0	75°	1712.2	550.9	57.7	55.2	48.6	58.5	74.5	67.6	46.0	36.9
603.5	77.5°	557.5	192.2	42.4	40.5	36.2	47.1	63.6	57.0	37.6	29.2
176.8	80°	149.4	58.1	28.9	26.7	23.4	35.1	50.4	45.3	27.0	19.0
76.0	82.5°	59.9	24.5	16.8	15.0	12.8	24.1	39.8	36.5	20.1	12.1
23.7	85°	19.4	8.0	6.2	4.7	5.8	15.0	23.7	24.8	14.2	6.2
3.7	87.5°	2.6	1.1	1.1	1.5	1.1	2.6	7.3	6.9	4.0	0.7
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>
840.6
741.2
599.8
464.0
378.8
347.8
337.2
325.1
308.3
286.8
263.4
240.7
222.8
210.8
201.7
202.4
195.8
180.8
166.2
153.8
145.4
139.6
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119.5
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