

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: P939254

Luminaire Tested: **GALN-SB1D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939254
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-SB1D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7433 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

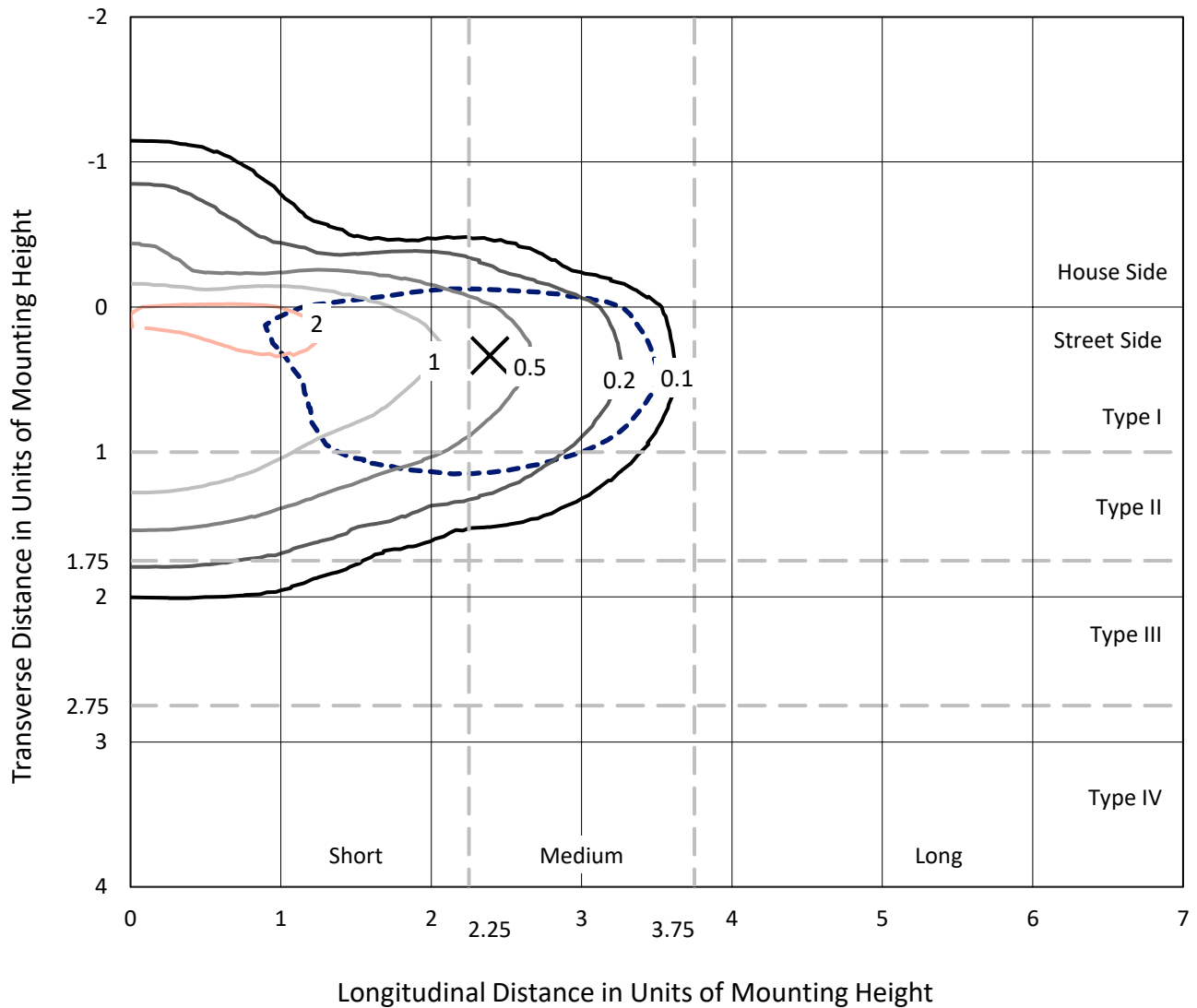
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

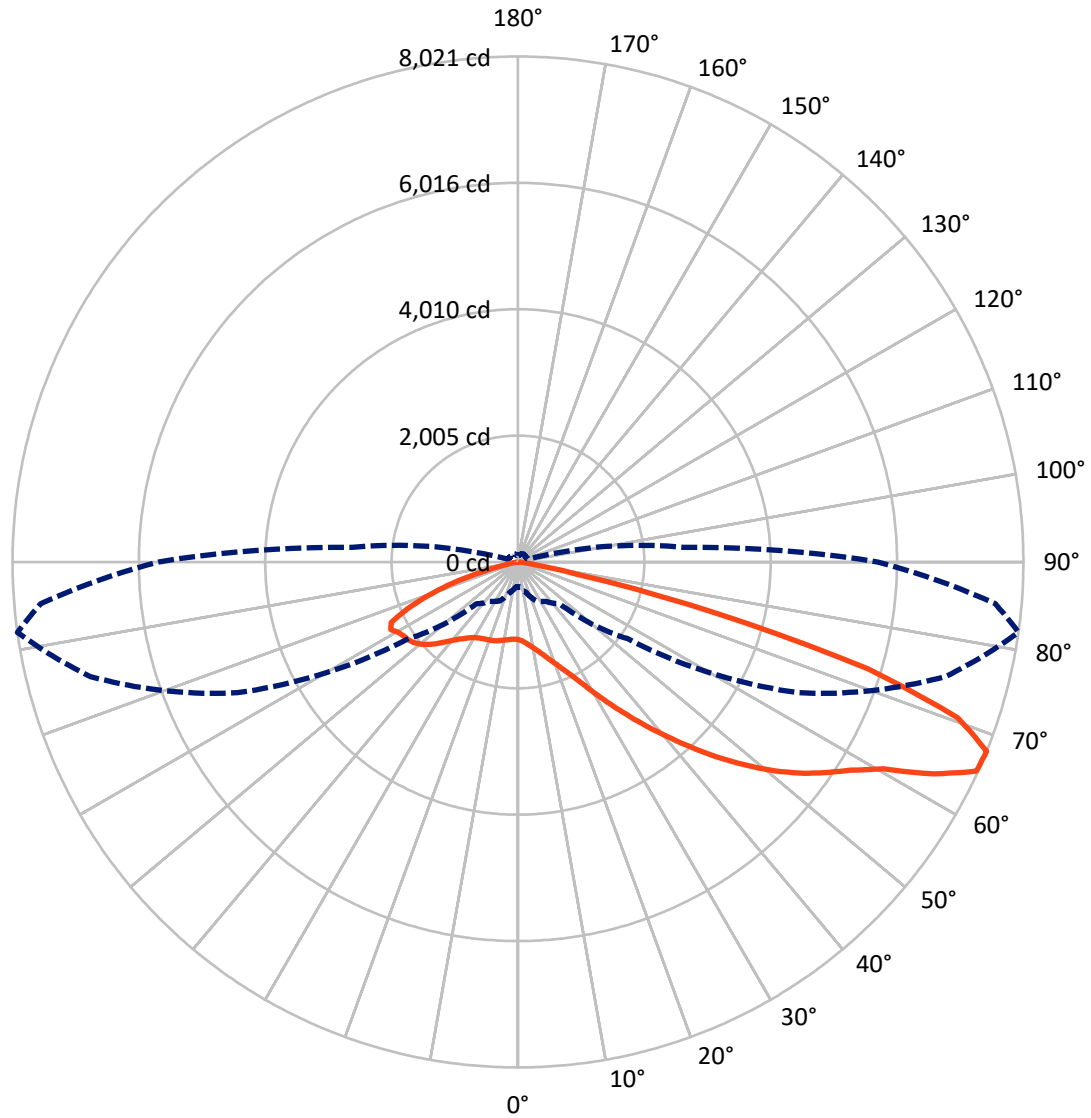
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.4	0.0	1346.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6086.6	0.0	6086.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	7433.0	0.0	7433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.5
10°-20°	285.1	3.8
20°-30°	456.6	6.1
30°-40°	807.4	10.9
40°-50°	1414.7	19.0
50°-60°	1886.8	25.4
60°-70°	1756.6	23.6
70°-80°	674.2	9.1
80°-90°	41.9	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°	7433.0	100.0
0°-180°	7433.0	100.0

Coefficient of Utilization



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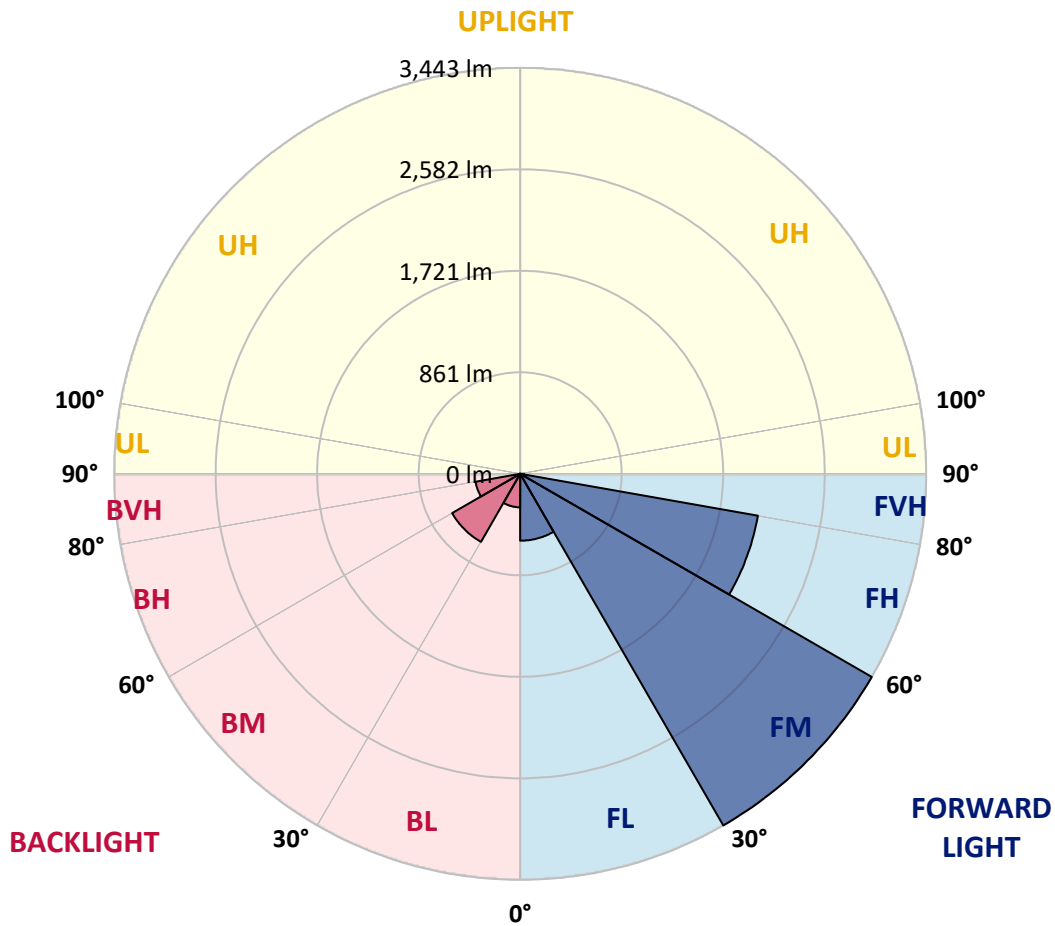
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.1	7.6			
FM (30°-60°)	3442.7	46.3			
FH (60°-80°)	2046.4	27.5			G2/5000
FVH (80°-90°)	30.4	0.4			G1/100
BL (0°-30°)	284.4	3.8	B1/500		
BM (30°-60°)	666.3	9.0	B1/1000		
BH (60°-80°)	384.3	5.2	B1/500		G1/500
BVH (80°-90°)	11.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4
2.5°	1301.5	1309.0	1304.7	1302.6	1298.8	1293.5	1289.2	1275.8	1261.9	1252.8
5°	1327.7	1335.2	1334.7	1336.8	1339.5	1341.1	1340.0	1325.0	1305.2	1289.7
7.5°	1305.2	1313.8	1320.8	1331.5	1350.2	1370.0	1379.6	1376.4	1356.1	1334.7
10°	1241.6	1250.7	1267.3	1292.4	1332.0	1374.8	1410.7	1427.3	1414.4	1390.9
12.5°	1124.9	1134.0	1166.6	1221.2	1287.6	1362.0	1430.5	1474.9	1478.1	1454.6
15°	993.8	1002.9	1037.7	1106.2	1207.3	1326.7	1441.2	1525.2	1553.6	1533.2
17.5°	912.4	920.5	946.7	1001.8	1107.2	1256.0	1437.4	1578.7	1643.5	1627.4
20°	887.8	894.8	907.1	945.6	1033.4	1182.7	1412.8	1629.0	1740.3	1731.2
22.5°	914.0	920.5	924.2	941.3	996.5	1134.5	1381.8	1680.4	1852.7	1853.8
25°	974.5	980.9	976.7	987.4	1011.4	1119.5	1370.0	1740.9	1994.0	2005.8
27.5°	1074.1	1074.6	1064.4	1063.9	1067.6	1142.0	1382.3	1805.6	2172.2	2194.1
30°	1273.7	1265.6	1226.6	1184.3	1165.0	1209.5	1416.6	1882.1	2382.5	2421.6
32.5°	1581.4	1569.6	1497.9	1396.8	1295.1	1318.1	1478.1	1969.4	2611.6	2682.2
35°	1915.3	1912.1	1837.2	1686.8	1509.1	1472.8	1578.2	2083.9	2861.5	2973.9
37.5°	2225.7	2224.1	2181.3	2004.2	1788.0	1688.4	1738.7	2233.7	3129.1	3291.8
40°	2509.4	2514.2	2471.4	2312.9	2095.1	1965.1	1957.1	2418.9	3426.6	3638.0
42.5°	2754.5	2759.8	2716.5	2599.3	2398.6	2271.2	2225.2	2645.8	3717.2	4009.9
45°	2920.9	2954.1	2947.6	2854.0	2710.0	2577.9	2547.3	2930.5	4048.5	4404.3
47.5°	2968.0	2998.5	3046.6	3059.5	2971.7	2841.7	2878.1	3273.6	4383.5	4799.3
50°	2851.9	2880.2	2980.3	3113.5	3174.6	3134.4	3199.7	3641.2	4726.5	5193.2
52.5°	2622.8	2651.7	2778.0	2988.9	3237.7	3364.0	3522.4	4003.5	5058.8	5566.2
55°	2291.5	2322.0	2484.2	2722.9	3117.3	3458.7	3791.6	4365.3	5363.3	5901.7
57.5°	1840.9	1863.4	2032.0	2365.9	2814.4	3364.5	3990.1	4760.2	5650.2	6231.4
60°	1199.8	1219.6	1415.5	1788.0	2312.4	3049.9	4029.7	5200.7	6031.2	6660.0
62.5°	797.9	811.3	927.4	1200.9	1628.5	2445.7	3798.0	5552.3	6589.9	7406.0
65°	547.5	560.8	677.0	867.5	1052.1	1617.8	3131.7	5505.7	7096.2	7998.5
67.5°	390.7	401.9	500.4	680.2	761.5	939.7	2123.0	4910.6	7023.4	8020.9
70°	279.9	286.3	367.7	529.8	605.3	564.6	1180.6	3755.7	6149.5	7406.6
72.5°	195.9	198.0	255.3	403.5	487.5	412.1	561.9	2504.0	4651.1	5813.4
75°	132.7	135.4	171.8	295.9	391.2	314.7	297.5	1342.7	2730.4	3217.9
77.5°	81.3	82.4	110.8	202.3	292.7	239.8	191.6	568.9	1056.4	1037.1
80°	46.0	46.0	70.6	125.8	199.6	154.7	134.3	241.9	334.5	293.8
82.5°	25.7	26.2	51.4	78.1	132.2	91.5	73.9	111.8	144.5	127.9
85°	10.7	11.8	31.6	36.9	63.1	45.5	30.0	47.1	53.5	47.6
87.5°	1.1	1.6	9.6	7.0	7.5	9.1	4.3	9.1	7.5	7.5
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°
1231.4	0°	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4	1231.4
1249.6	2.5°	1239.4	1231.4	1211.1	1187.5	1156.5	1141.5	1121.2	1107.2	1095.5	1096.5
1280.6	5°	1263.5	1243.2	1197.7	1141.0	1070.3	1020.0	966.5	929.6	899.6	893.2
1323.4	7.5°	1296.7	1264.6	1184.8	1082.6	963.3	872.8	792.0	740.1	703.2	691.4
1375.4	10°	1339.5	1292.9	1168.2	1009.3	837.5	722.5	635.8	595.1	569.9	561.4
1436.4	12.5°	1389.3	1325.6	1146.3	919.9	708.0	597.2	542.1	521.8	513.8	511.1
1511.3	15°	1451.9	1366.3	1113.1	814.0	598.3	520.7	497.2	494.5	495.6	494.5
1601.2	17.5°	1526.3	1410.7	1059.1	704.8	524.5	481.6	473.1	475.2	477.9	477.4
1701.8	20°	1607.6	1454.6	990.0	607.9	474.1	453.8	449.0	451.1	453.3	452.2
1817.9	22.5°	1700.2	1501.7	913.5	532.5	440.4	428.1	422.8	423.3	423.3	421.2
1965.1	25°	1811.0	1553.6	833.2	479.0	414.7	405.1	398.7	396.6	393.3	386.9
2143.8	27.5°	1943.2	1608.7	756.2	441.5	394.4	385.3	377.8	372.5	364.4	353.7
2358.4	30°	2091.9	1675.6	690.9	418.0	378.4	369.3	360.7	352.7	340.9	327.5
2605.1	32.5°	2266.9	1747.3	643.3	402.4	363.9	354.3	344.1	334.5	321.6	308.3
2882.4	35°	2475.6	1834.0	615.4	391.7	352.7	339.8	328.6	317.9	308.3	296.5
3183.6	37.5°	2702.0	1926.0	606.9	386.4	345.2	325.4	312.5	305.0	304.0	297.0
3509.6	40°	2949.8	2035.2	613.3	383.2	337.1	311.5	297.5	295.9	298.6	286.3
3857.9	42.5°	3212.0	2164.7	624.0	379.4	325.9	297.5	284.2	284.2	282.0	264.9
4226.1	45°	3495.6	2314.0	634.7	370.3	312.5	283.6	273.5	269.7	260.6	244.0
4596.5	47.5°	3781.4	2466.0	642.7	353.7	296.5	271.9	262.8	254.2	240.8	225.8
4959.8	50°	4052.7	2602.5	634.2	329.1	278.3	260.6	251.0	239.2	224.8	214.6
5303.9	52.5°	4295.2	2720.7	597.8	300.2	259.0	248.8	240.3	228.0	216.2	205.5
5614.3	55°	4506.0	2816.5	533.6	272.9	241.9	238.7	230.1	214.6	198.5	189.4
5922.0	57.5°	4708.3	2889.3	453.3	250.5	226.4	227.4	214.6	200.7	185.7	176.1
6336.8	60°	4977.5	2986.7	371.9	229.6	209.8	213.0	199.1	188.9	170.2	157.9
7048.0	62.5°	5407.8	3138.2	295.4	203.9	190.5	191.6	185.7	173.4	150.9	136.5
7575.1	65°	5749.2	3082.5	232.8	176.1	168.6	170.2	170.2	156.8	132.7	116.1
7603.5	67.5°	5710.7	2639.4	185.7	148.8	147.7	148.8	152.5	141.3	117.7	104.4
7024.5	70°	5260.6	2099.4	148.8	123.6	128.4	125.8	136.5	129.0	106.0	92.6
5445.8	72.5°	4292.5	1512.4	113.5	102.2	98.5	102.8	123.1	116.1	88.3	73.3
2884.5	75°	2508.3	807.0	84.6	80.8	71.2	85.6	109.2	99.0	67.4	54.1
884.1	77.5°	816.6	281.5	62.1	59.4	53.0	69.0	93.1	83.5	55.1	42.8
259.0	80°	218.9	85.1	42.3	39.1	34.3	51.4	73.9	66.4	39.6	27.8
111.3	82.5°	87.8	35.9	24.6	21.9	18.7	35.3	58.3	53.5	29.4	17.7
34.8	85°	28.4	11.8	9.1	7.0	8.6	21.9	34.8	36.4	20.9	9.1
5.4	87.5°	3.7	1.6	1.6	2.1	1.6	3.7	10.7	10.2	5.9	1.1
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>
1231.4
1085.8
878.7
679.6
555.0
509.5
494.0
476.3
451.7
420.1
385.8
352.7
326.4
308.8
295.4
296.5
286.8
264.9
243.5
225.3
213.0
204.4
188.4
175.0
156.3
135.4
114.5
102.2
91.0
71.7
52.4
41.2
27.3
17.7
7.0
0.0
0.0

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