

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: P939644

Luminaire Tested: **GALN-SB2B-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939644
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-SB2B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7389 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

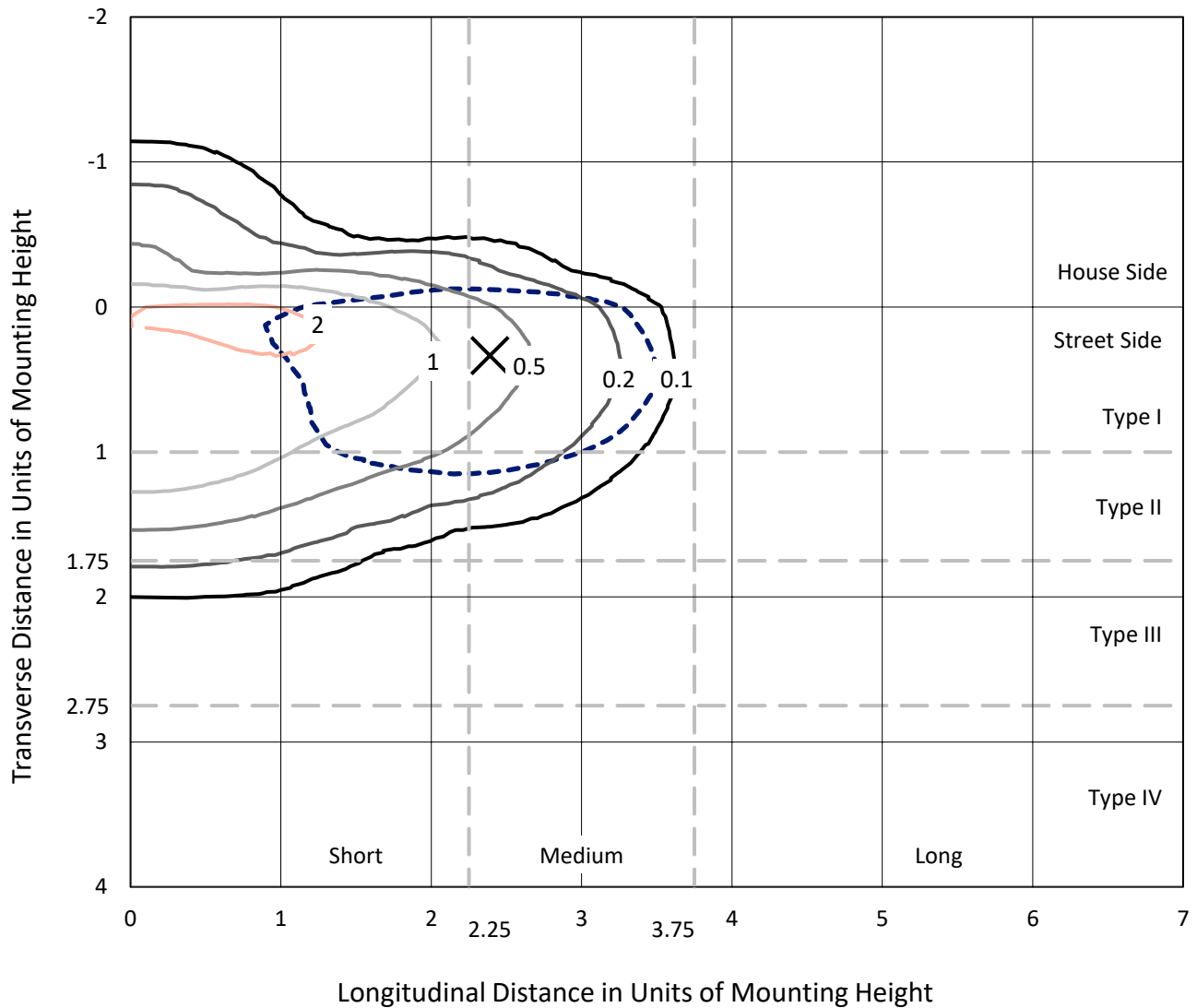
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

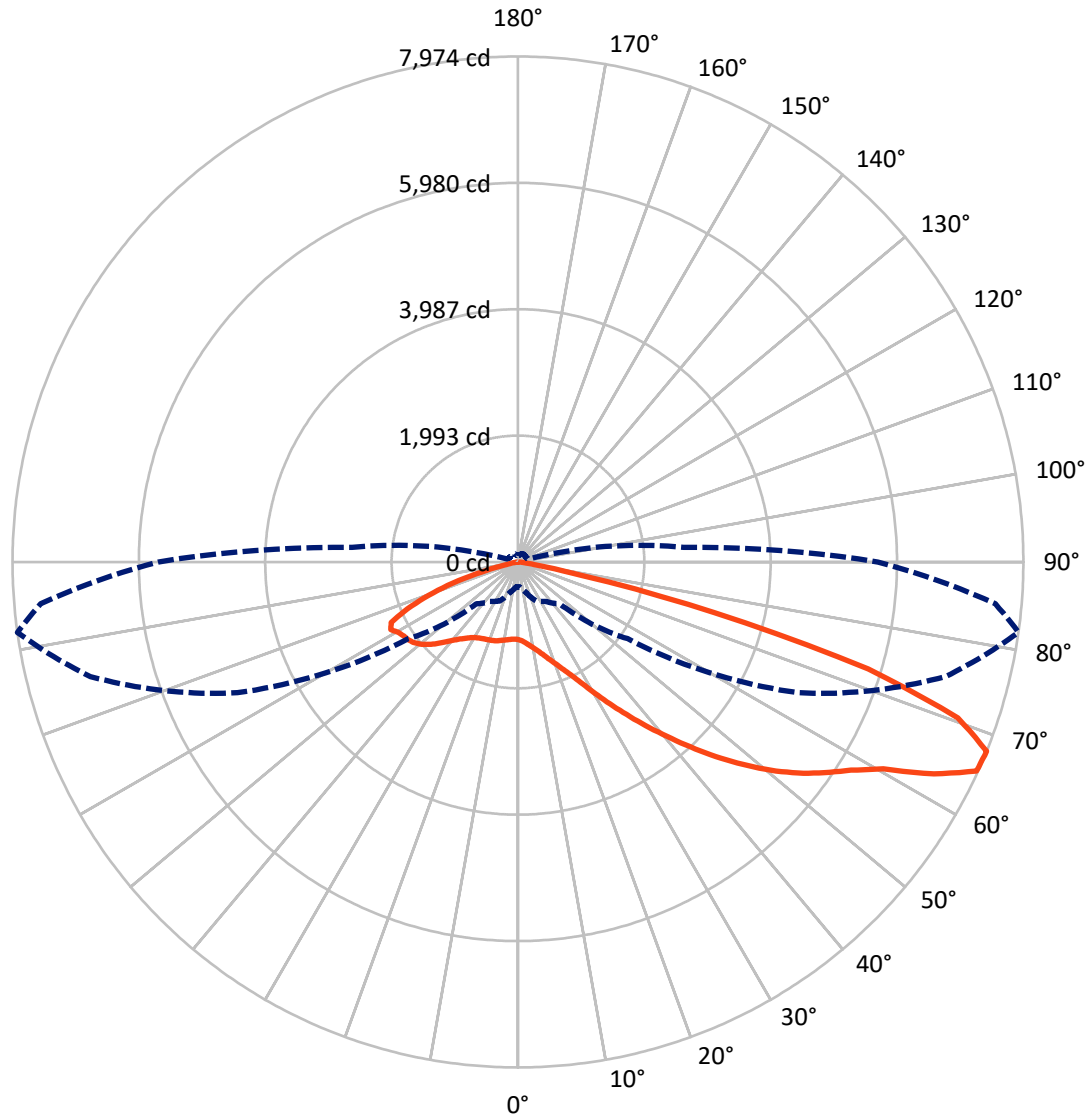
✕ Max cd
 - - - 1/2 Max cd



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	1338.5	0.0	1338.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6050.5	0.0	6050.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	7389.0	0.0	7389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.5
10°-20°	283.4	3.8
20°-30°	453.9	6.1
30°-40°	802.7	10.9
40°-50°	1406.3	19.0
50°-60°	1875.7	25.4
60°-70°	1746.2	23.6
70°-80°	670.2	9.1
80°-90°	41.6	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°	7389.0	100.0
0°-180°	7389.0	100.0

Coefficient of Utilization



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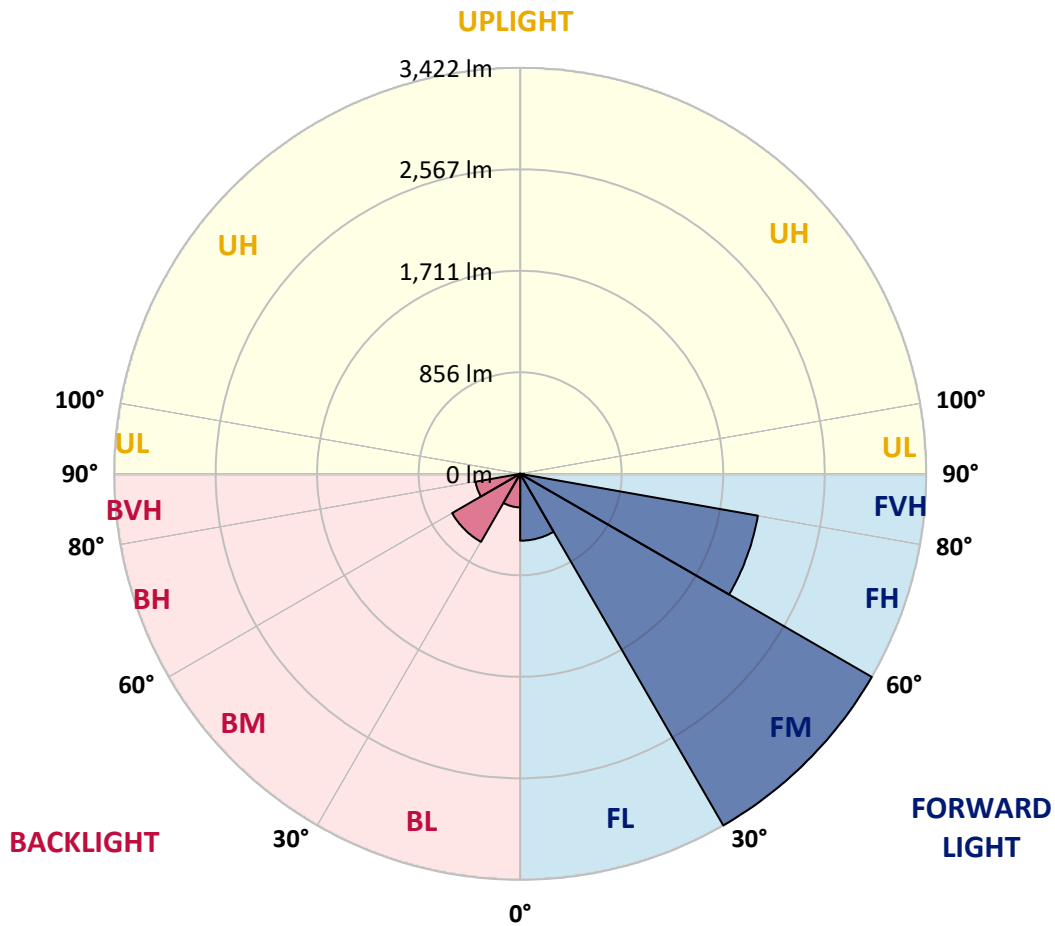
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.7	7.6			
FM (30°-60°)	3422.3	46.3			
FH (60°-80°)	2034.3	27.5			G2/5000
FVH (80°-90°)	30.3	0.4			G1/100
BL (0°-30°)	282.7	3.8	B1/500		
BM (30°-60°)	662.4	9.0	B1/1000		
BH (60°-80°)	382.0	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°	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1293.8	1301.2	1297.0	1294.9	1291.1	1285.8	1281.6	1268.3	1254.4	1245.4
5°	1319.9	1327.3	1326.8	1328.9	1331.6	1333.2	1332.1	1317.2	1297.5	1282.1
7.5°	1297.5	1306.0	1312.9	1323.6	1342.2	1361.9	1371.5	1368.3	1348.1	1326.8
10°	1234.2	1243.3	1259.8	1284.8	1324.1	1366.7	1402.3	1418.8	1406.0	1382.6
12.5°	1118.2	1127.3	1159.7	1214.0	1280.0	1353.9	1422.0	1466.2	1469.4	1445.9
15°	987.9	996.9	1031.5	1099.6	1200.2	1318.8	1432.6	1516.2	1544.4	1524.1
17.5°	907.0	915.0	941.1	995.9	1100.7	1248.6	1428.9	1569.4	1633.7	1617.8
20°	882.6	889.5	901.7	940.0	1027.3	1175.7	1404.5	1619.4	1730.0	1721.0
22.5°	908.6	915.0	918.7	935.8	990.6	1127.8	1373.6	1670.4	1841.7	1842.8
25°	968.8	975.1	970.9	981.5	1005.5	1112.9	1361.9	1730.6	1982.2	1993.9
27.5°	1067.7	1068.2	1058.1	1057.6	1061.3	1135.3	1374.1	1794.9	2159.3	2181.2
30°	1266.1	1258.2	1219.3	1177.3	1158.1	1202.3	1408.2	1871.0	2368.4	2407.3
32.5°	1572.0	1560.3	1489.0	1388.5	1287.4	1310.3	1469.4	1957.7	2596.1	2666.3
35°	1904.0	1900.8	1826.3	1676.8	1500.2	1464.0	1568.8	2071.6	2844.5	2956.3
37.5°	2212.5	2210.9	2168.4	1992.3	1777.4	1678.4	1728.4	2220.5	3110.5	3272.3
40°	2494.5	2499.3	2456.7	2299.3	2082.7	1953.5	1945.5	2404.6	3406.3	3616.5
42.5°	2738.1	2743.5	2700.4	2583.9	2384.4	2257.8	2212.0	2630.2	3695.2	3986.2
45°	2903.6	2936.6	2930.2	2837.1	2694.0	2562.6	2532.3	2913.2	4024.5	4378.3
47.5°	2950.4	2980.7	3028.6	3041.4	2954.1	2824.9	2861.0	3254.2	4357.5	4770.9
50°	2835.0	2863.2	2962.6	3095.1	3155.8	3115.9	3180.8	3619.7	4698.5	5162.4
52.5°	2607.3	2636.0	2761.6	2971.2	3218.5	3344.1	3501.6	3979.8	5028.9	5533.2
55°	2278.0	2308.3	2469.5	2706.8	3098.8	3438.2	3769.1	4339.4	5331.6	5866.8
57.5°	1830.0	1852.4	2020.0	2351.9	2797.7	3344.6	3966.5	4732.0	5616.7	6194.5
60°	1192.7	1212.4	1407.1	1777.4	2298.7	3031.8	4005.9	5169.9	5995.5	6620.6
62.5°	793.2	806.5	921.9	1193.8	1618.8	2431.2	3775.5	5519.4	6550.9	7362.2
65°	544.2	557.5	673.0	862.4	1045.9	1608.2	3113.2	5473.1	7054.2	7951.1
67.5°	388.4	399.5	497.4	676.2	757.0	934.2	2110.4	4881.5	6981.8	7973.5
70°	278.2	284.6	365.5	526.7	601.7	561.2	1173.6	3733.5	6113.1	7362.7
72.5°	194.7	196.8	253.8	401.1	484.6	409.6	558.6	2489.2	4623.5	5779.0
75°	131.9	134.6	170.8	294.2	388.9	312.8	295.8	1334.8	2714.2	3198.9
77.5°	80.9	81.9	110.1	201.1	291.0	238.3	190.5	565.5	1050.1	1031.0
80°	45.8	45.8	70.2	125.0	198.4	153.7	133.5	240.5	332.5	292.1
82.5°	25.5	26.1	51.1	77.7	131.4	91.0	73.4	111.2	143.6	127.1
85°	10.6	11.7	31.4	36.7	62.8	45.2	29.8	46.8	53.2	47.3
87.5°	1.1	1.6	9.6	6.9	7.4	9.0	4.3	9.0	7.4	7.4
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°
1224.1	0°	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1	1224.1
1242.2	2.5°	1232.1	1224.1	1203.9	1180.5	1149.6	1134.7	1114.5	1100.7	1089.0	1090.0
1273.1	5°	1256.0	1235.8	1190.6	1134.2	1064.0	1014.0	960.8	924.1	894.3	887.9
1315.6	7.5°	1289.0	1257.1	1177.8	1076.2	957.6	867.7	787.3	735.7	699.0	687.3
1367.2	10°	1331.6	1285.3	1161.3	1003.3	832.6	718.2	632.0	591.6	566.6	558.1
1427.9	12.5°	1381.0	1317.7	1139.5	914.5	703.8	593.7	538.9	518.7	510.7	508.0
1502.3	15°	1443.3	1358.2	1106.5	809.2	594.8	517.6	494.2	491.6	492.6	491.6
1591.7	17.5°	1517.2	1402.3	1052.8	700.6	521.3	478.8	470.3	472.4	475.1	474.5
1691.7	20°	1598.1	1445.9	984.2	604.3	471.3	451.1	446.3	448.5	450.6	449.5
1807.2	22.5°	1690.1	1492.8	908.1	529.3	437.8	425.6	420.3	420.8	420.8	418.7
1953.5	25°	1800.3	1544.4	828.3	476.1	412.3	402.7	396.3	394.2	391.0	384.6
2131.1	27.5°	1931.7	1599.2	751.7	438.9	392.1	383.0	375.6	370.3	362.3	351.6
2344.5	30°	2079.5	1665.7	686.8	415.5	376.1	367.1	358.6	350.6	338.9	325.6
2589.7	32.5°	2253.5	1736.9	639.5	400.1	361.8	352.2	342.1	332.5	319.7	306.4
2865.3	35°	2461.0	1823.1	611.8	389.4	350.6	337.8	326.6	316.0	306.4	294.7
3164.8	37.5°	2686.0	1914.6	603.3	384.1	343.1	323.4	310.7	303.2	302.2	295.3
3488.8	40°	2932.3	2023.2	609.7	380.9	335.2	309.6	295.8	294.2	296.8	284.6
3835.1	42.5°	3193.0	2151.9	620.3	377.2	324.0	295.8	282.5	282.5	280.4	263.3
4201.1	45°	3475.0	2300.3	630.9	368.1	310.7	282.0	271.8	268.1	259.1	242.6
4569.3	47.5°	3759.0	2451.4	638.9	351.6	294.7	270.3	261.2	252.7	239.4	224.5
4930.5	50°	4028.8	2587.1	630.4	327.2	276.6	259.1	249.5	237.8	223.4	213.3
5272.5	52.5°	4269.7	2704.6	594.2	298.4	257.5	247.4	238.9	226.6	214.9	204.3
5581.1	55°	4479.3	2799.9	530.4	271.3	240.5	237.3	228.8	213.3	197.4	188.3
5887.0	57.5°	4680.4	2872.2	450.6	249.0	225.0	226.1	213.3	199.5	184.6	175.0
6299.3	60°	4948.0	2969.0	369.7	228.2	208.5	211.7	197.9	187.8	169.2	156.9
7006.3	62.5°	5375.8	3119.6	293.7	202.7	189.4	190.5	184.6	172.4	150.0	135.7
7530.3	65°	5715.2	3064.3	231.4	175.0	167.6	169.2	169.2	155.9	131.9	115.4
7558.5	67.5°	5676.9	2623.8	184.6	147.9	146.8	147.9	151.6	140.4	117.0	103.7
6982.9	70°	5229.5	2087.0	147.9	122.9	127.7	125.0	135.7	128.2	105.3	92.0
5413.5	72.5°	4267.1	1503.4	112.8	101.6	97.9	102.1	122.4	115.4	87.8	72.9
2867.4	75°	2493.4	802.2	84.1	80.3	70.8	85.1	108.5	98.4	67.0	53.7
878.8	77.5°	811.8	279.8	61.7	59.1	52.7	68.6	92.6	83.0	54.8	42.6
257.5	80°	217.6	84.6	42.0	38.8	34.0	51.1	73.4	66.0	39.4	27.7
110.7	82.5°	87.2	35.6	24.5	21.8	18.6	35.1	58.0	53.2	29.3	17.6
34.6	85°	28.2	11.7	9.0	6.9	8.5	21.8	34.6	36.2	20.7	9.0
5.3	87.5°	3.7	1.6	1.6	2.1	1.6	3.7	10.6	10.1	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>
1224.1
1079.4
873.5
675.6
551.7
506.5
491.0
473.5
449.0
417.6
383.6
350.6
324.5
307.0
293.7
294.7
285.1
263.3
242.1
224.0
211.7
203.2
187.3
174.0
155.3
134.6
113.8
<i>101.6</i>
90.4
71.3
52.1
41.0
27.1
17.6
6.9
0.0
0.0

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