

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: P939374

Luminaire Tested: **GALN-SB1D-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939374
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-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 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: 5386 lumens
Efficiency: N/A
Efficacy: 67.7 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

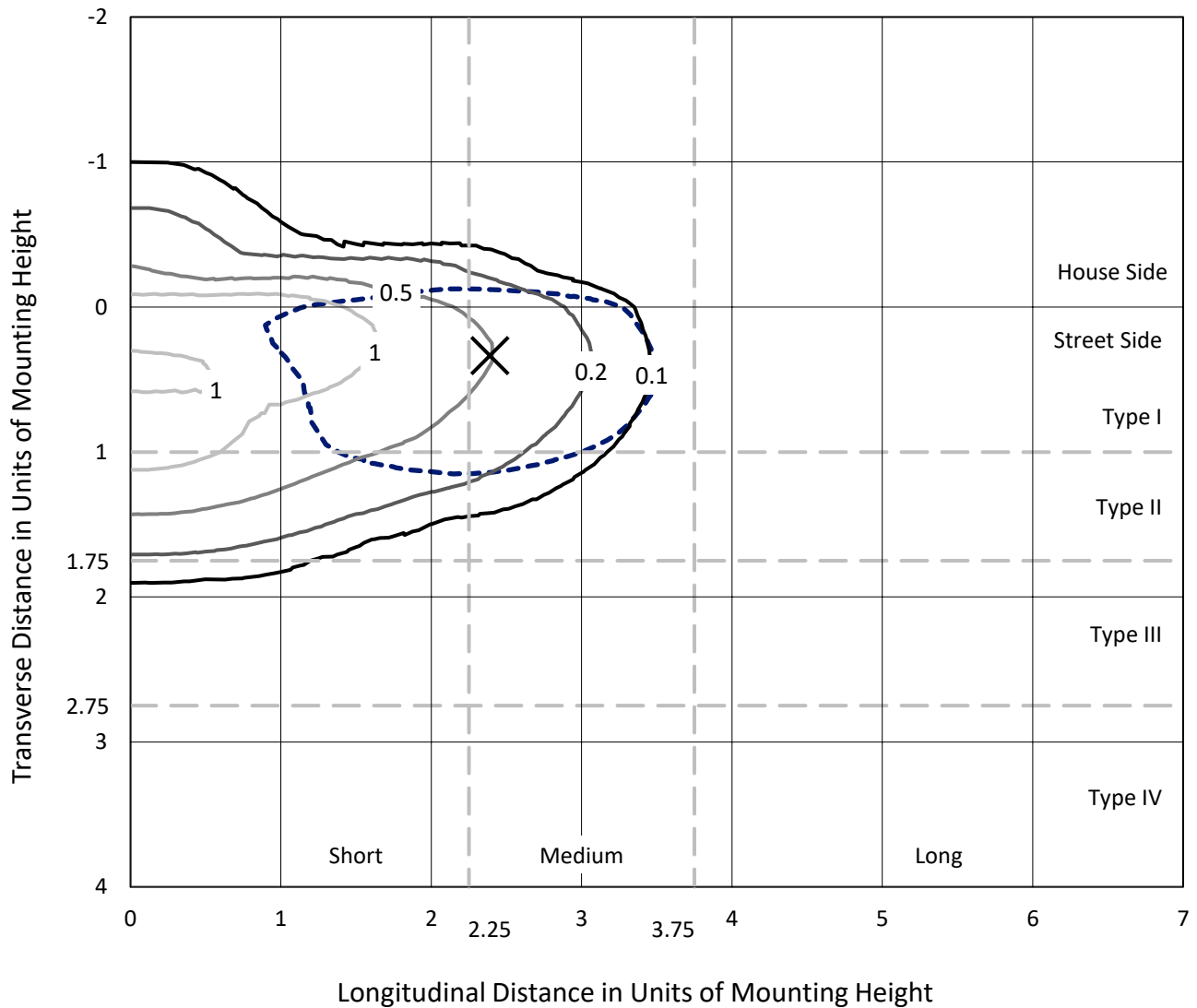
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

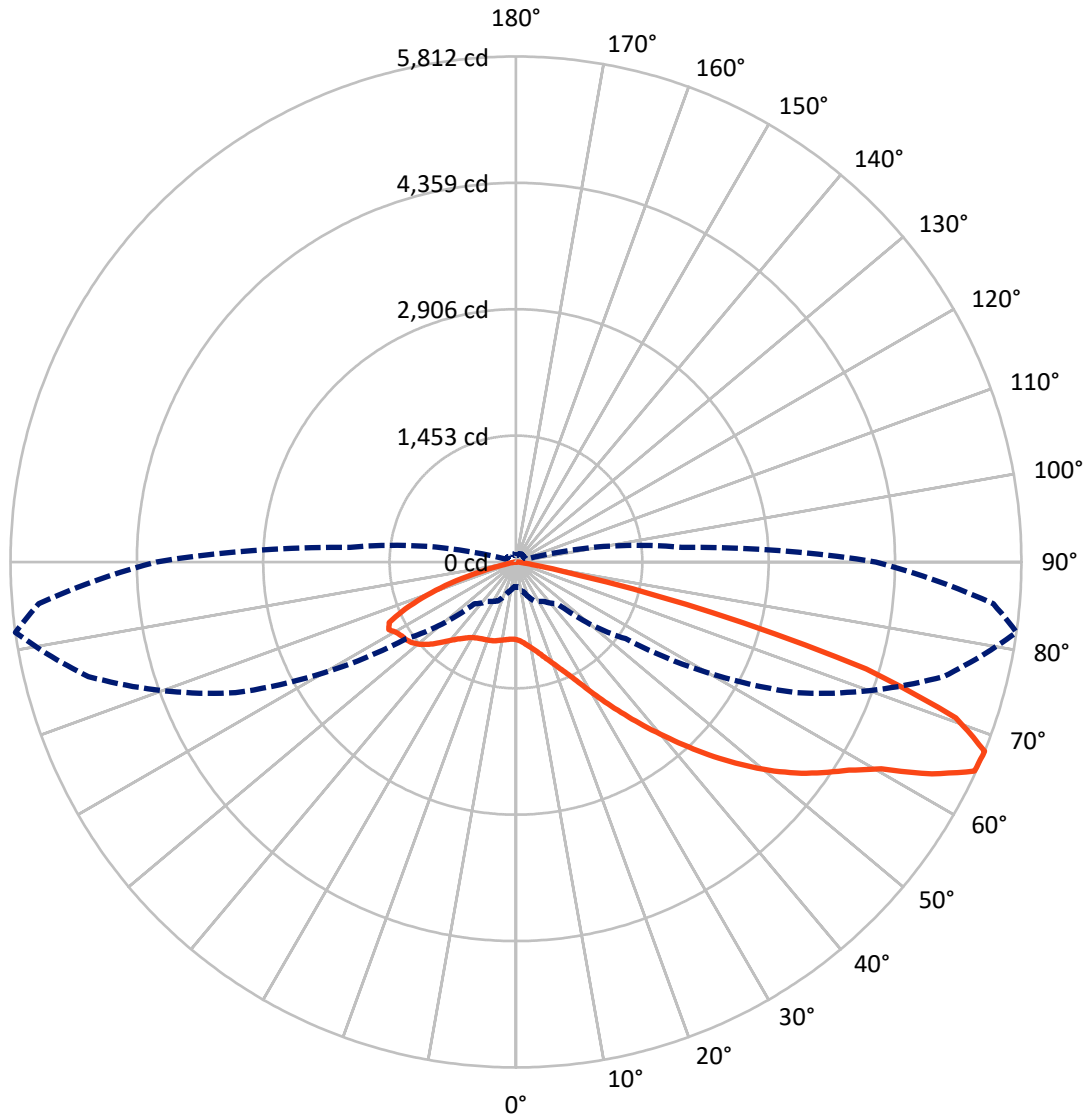
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	975.6	0.0	975.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4410.4	0.0	4410.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	5386.0	0.0	5386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.5
10°-20°	206.6	3.8
20°-30°	330.9	6.1
30°-40°	585.1	10.9
40°-50°	1025.1	19.0
50°-60°	1367.2	25.4
60°-70°	1272.8	23.6
70°-80°	488.5	9.1
80°-90°	30.3	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°	5386.0	100.0
0°-180°	5386.0	100.0

Coefficient of Utilization



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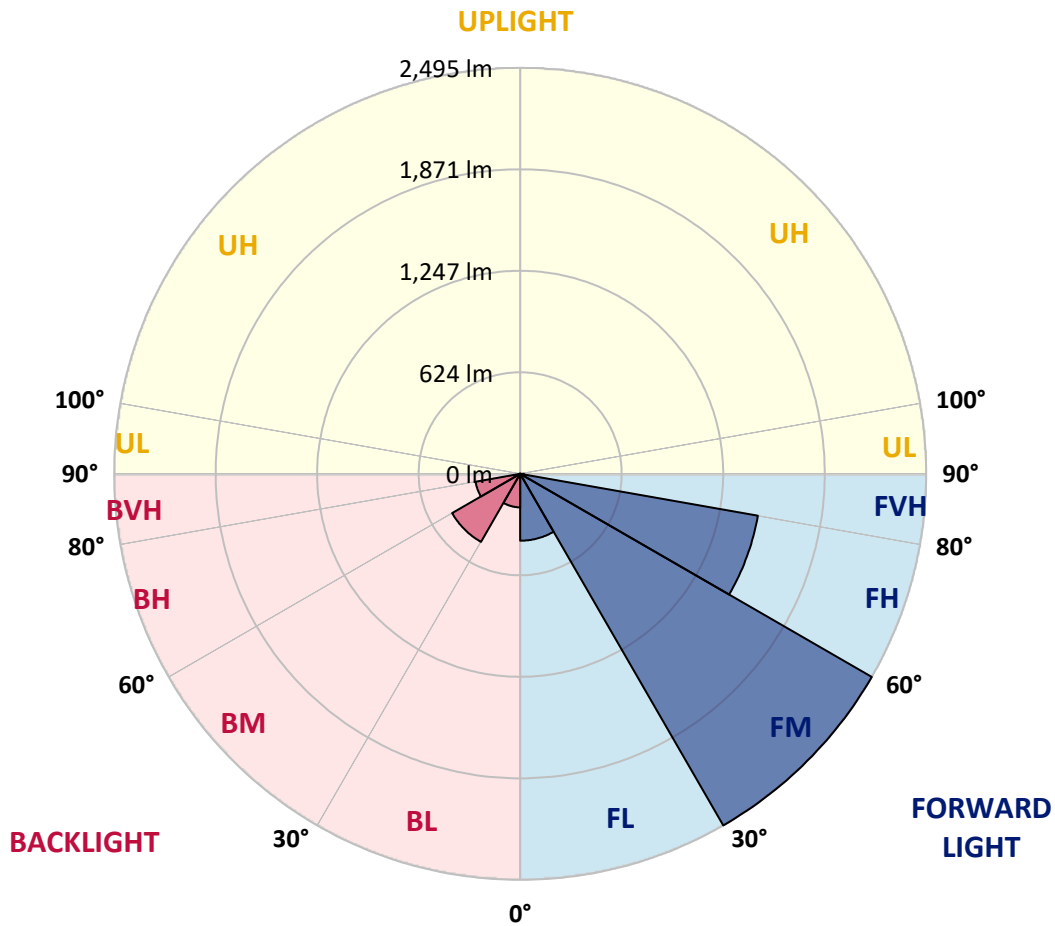
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.9	7.6			
FM (30°-60°)	2494.6	46.3			
FH (60°-80°)	1482.8	27.5			G1/1800
FVH (80°-90°)	22.1	0.4			G1/100
BL (0°-30°)	206.0	3.8	B1/500		
BM (30°-60°)	482.8	9.0	B1/1000		
BH (60°-80°)	278.5	5.2	B1/500		G1/500
BVH (80°-90°)	8.3	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°	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3
2.5°	943.1	948.5	945.4	943.9	941.1	937.3	934.2	924.5	914.4	907.8
5°	962.1	967.5	967.1	968.7	970.6	971.8	971.0	960.1	945.8	934.5
7.5°	945.8	952.0	957.0	964.8	978.4	992.7	999.7	997.4	982.6	967.1
10°	899.6	906.2	918.3	936.5	965.2	996.2	1022.2	1034.2	1024.9	1007.8
12.5°	815.1	821.7	845.4	884.9	933.0	986.9	1036.5	1068.7	1071.0	1054.0
15°	720.1	726.7	751.9	801.5	874.8	961.3	1044.3	1105.2	1125.7	1111.0
17.5°	661.2	667.0	686.0	725.9	802.3	910.1	1041.6	1143.9	1190.9	1179.2
20°	643.3	648.4	657.3	685.2	748.8	857.0	1023.7	1180.4	1261.1	1254.5
22.5°	662.3	667.0	669.7	682.1	722.0	822.1	1001.2	1217.6	1342.5	1343.3
25°	706.1	710.8	707.7	715.5	732.9	811.2	992.7	1261.4	1444.9	1453.4
27.5°	778.3	778.7	771.3	770.9	773.6	827.5	1001.6	1308.4	1574.0	1589.9
30°	922.9	917.1	888.8	858.2	844.2	876.4	1026.4	1363.8	1726.4	1754.7
32.5°	1145.9	1137.4	1085.4	1012.1	938.4	955.1	1071.0	1427.0	1892.4	1943.5
35°	1387.9	1385.5	1331.2	1222.3	1093.5	1067.2	1143.6	1510.0	2073.5	2154.9
37.5°	1612.8	1611.6	1580.6	1452.2	1295.6	1223.4	1259.9	1618.6	2267.3	2385.2
40°	1818.3	1821.8	1790.8	1676.0	1518.2	1423.9	1418.1	1752.8	2482.9	2636.1
42.5°	1995.9	1999.8	1968.4	1883.4	1738.0	1645.7	1612.4	1917.2	2693.5	2905.6
45°	2116.5	2140.5	2135.9	2068.0	1963.7	1867.9	1845.8	2123.5	2933.5	3191.4
47.5°	2150.6	2172.7	2207.6	2216.9	2153.3	2059.1	2085.5	2372.0	3176.3	3477.6
50°	2066.5	2087.0	2159.5	2256.1	2300.3	2271.2	2318.5	2638.4	3424.9	3763.0
52.5°	1900.5	1921.4	2013.0	2165.7	2346.1	2437.6	2552.4	2901.0	3665.7	4033.3
55°	1660.5	1682.6	1800.1	1973.0	2258.8	2506.2	2747.4	3163.1	3886.3	4276.4
57.5°	1334.0	1350.2	1472.4	1714.4	2039.3	2438.0	2891.3	3449.3	4094.2	4515.3
60°	869.4	883.7	1025.7	1295.6	1675.6	2209.9	2920.0	3768.4	4370.3	4825.9
62.5°	578.2	587.9	672.0	870.2	1180.0	1772.1	2752.1	4023.2	4775.1	5366.5
65°	396.7	406.4	490.5	628.6	762.4	1172.3	2269.3	3989.5	5141.9	5795.7
67.5°	283.1	291.2	362.6	492.9	551.8	680.9	1538.3	3558.3	5089.2	5812.0
70°	202.8	207.5	266.4	383.9	438.6	409.1	855.4	2721.4	4456.0	5366.9
72.5°	141.9	143.5	185.0	292.4	353.3	298.6	407.2	1814.4	3370.2	4212.4
75°	96.2	98.1	124.5	214.4	283.5	228.0	215.6	972.9	1978.4	2331.7
77.5°	58.9	59.7	80.3	146.6	212.1	173.7	138.8	412.2	765.5	751.5
80°	33.3	33.3	51.2	91.1	144.6	112.1	97.3	175.3	242.4	212.9
82.5°	18.6	19.0	37.2	56.6	95.8	66.3	53.5	81.0	104.7	92.7
85°	7.8	8.5	22.9	26.8	45.8	33.0	21.7	34.1	38.8	34.5
87.5°	0.8	1.2	7.0	5.0	5.4	6.6	3.1	6.6	5.4	5.4
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°
892.3	0°	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3	892.3
905.5	2.5°	898.1	892.3	877.5	860.5	838.0	827.1	812.4	802.3	793.8	794.6
928.0	5°	915.5	900.8	867.8	826.7	775.6	739.1	700.3	673.6	651.9	647.2
959.0	7.5°	939.6	916.3	858.5	784.5	698.0	632.5	573.9	536.3	509.5	501.0
996.6	10°	970.6	936.9	846.5	731.3	606.9	523.5	460.7	431.2	413.0	406.8
1040.8	12.5°	1006.7	960.5	830.6	666.6	513.0	432.8	392.8	378.1	372.3	370.3
1095.1	15°	1052.0	990.0	806.6	589.8	433.5	377.3	360.2	358.3	359.1	358.3
1160.2	17.5°	1105.9	1022.2	767.4	510.7	380.0	349.0	342.8	344.3	346.3	345.9
1233.1	20°	1164.9	1054.0	717.4	440.5	343.6	328.8	325.3	326.9	328.4	327.7
1317.3	22.5°	1232.0	1088.1	661.9	385.8	319.1	310.2	306.3	306.7	306.7	305.2
1423.9	25°	1312.2	1125.7	603.8	347.1	300.5	293.5	288.9	287.3	285.0	280.4
1553.4	27.5°	1408.0	1165.7	547.9	319.9	285.8	279.2	273.8	269.9	264.1	256.3
1708.9	30°	1515.8	1214.1	500.6	302.9	274.2	267.6	261.4	255.5	247.0	237.3
1887.7	32.5°	1642.6	1266.1	466.1	291.6	263.7	256.7	249.3	242.4	233.1	223.4
2088.6	35°	1793.9	1328.9	445.9	283.9	255.5	246.2	238.1	230.3	223.4	214.8
2306.9	37.5°	1957.9	1395.6	439.7	280.0	250.1	235.8	226.5	221.0	220.3	215.2
2543.1	40°	2137.4	1474.7	444.4	277.6	244.3	225.7	215.6	214.4	216.4	207.5
2795.5	42.5°	2327.4	1568.6	452.1	274.9	236.2	215.6	205.9	205.9	204.4	192.0
3062.3	45°	2533.0	1676.8	459.9	268.3	226.5	205.5	198.2	195.4	188.8	176.8
3330.6	47.5°	2740.0	1786.9	465.7	256.3	214.8	197.0	190.4	184.2	174.5	163.6
3593.9	50°	2936.6	1885.8	459.5	238.5	201.6	188.8	181.9	173.3	162.9	155.5
3843.3	52.5°	3112.3	1971.5	433.1	217.5	187.7	180.3	174.1	165.2	156.7	148.9
4068.2	55°	3265.1	2040.9	386.6	197.8	175.3	172.9	166.7	155.5	143.9	137.3
4291.2	57.5°	3411.7	2093.6	328.4	181.5	164.0	164.8	155.5	145.4	134.6	127.6
4591.7	60°	3606.7	2164.2	269.5	166.4	152.0	154.3	144.3	136.9	123.3	114.4
5107.0	62.5°	3918.5	2273.9	214.1	147.7	138.0	138.8	134.6	125.6	109.4	98.9
5489.0	65°	4165.9	2233.6	168.7	127.6	122.2	123.3	123.3	113.6	96.2	84.1
5509.6	67.5°	4138.0	1912.5	134.6	107.8	107.0	107.8	110.5	102.4	85.3	75.6
5090.0	70°	3811.9	1521.3	107.8	89.6	93.1	91.1	98.9	93.5	76.8	67.1
3946.0	72.5°	3110.4	1095.9	82.2	74.1	71.4	74.5	89.2	84.1	64.0	53.1
2090.1	75°	1817.5	584.8	61.3	58.6	51.6	62.0	79.1	71.7	48.9	39.2
640.6	77.5°	591.7	204.0	45.0	43.0	38.4	50.0	67.5	60.5	39.9	31.0
187.7	80°	158.6	61.7	30.6	28.3	24.8	37.2	53.5	48.1	28.7	20.2
80.7	82.5°	63.6	26.0	17.8	15.9	13.6	25.6	42.3	38.8	21.3	12.8
25.2	85°	20.6	8.5	6.6	5.0	6.2	15.9	25.2	26.4	15.1	6.6
3.9	87.5°	2.7	1.2	1.2	1.6	1.2	2.7	7.8	7.4	4.3	0.8
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>
892.3
786.8
636.7
492.5
402.1
369.2
357.9
345.1
327.3
304.4
279.6
255.5
236.5
223.7
214.1
214.8
207.8
192.0
176.4
163.3
154.3
148.1
136.5
126.8
113.2
98.1
83.0
74.1
65.9
52.0
38.0
29.9
19.8
12.8
5.0
0.0
0.0

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