

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: P939894

Luminaire Tested: **GALN-SB2C-950-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939894  
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-SB2C-950-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

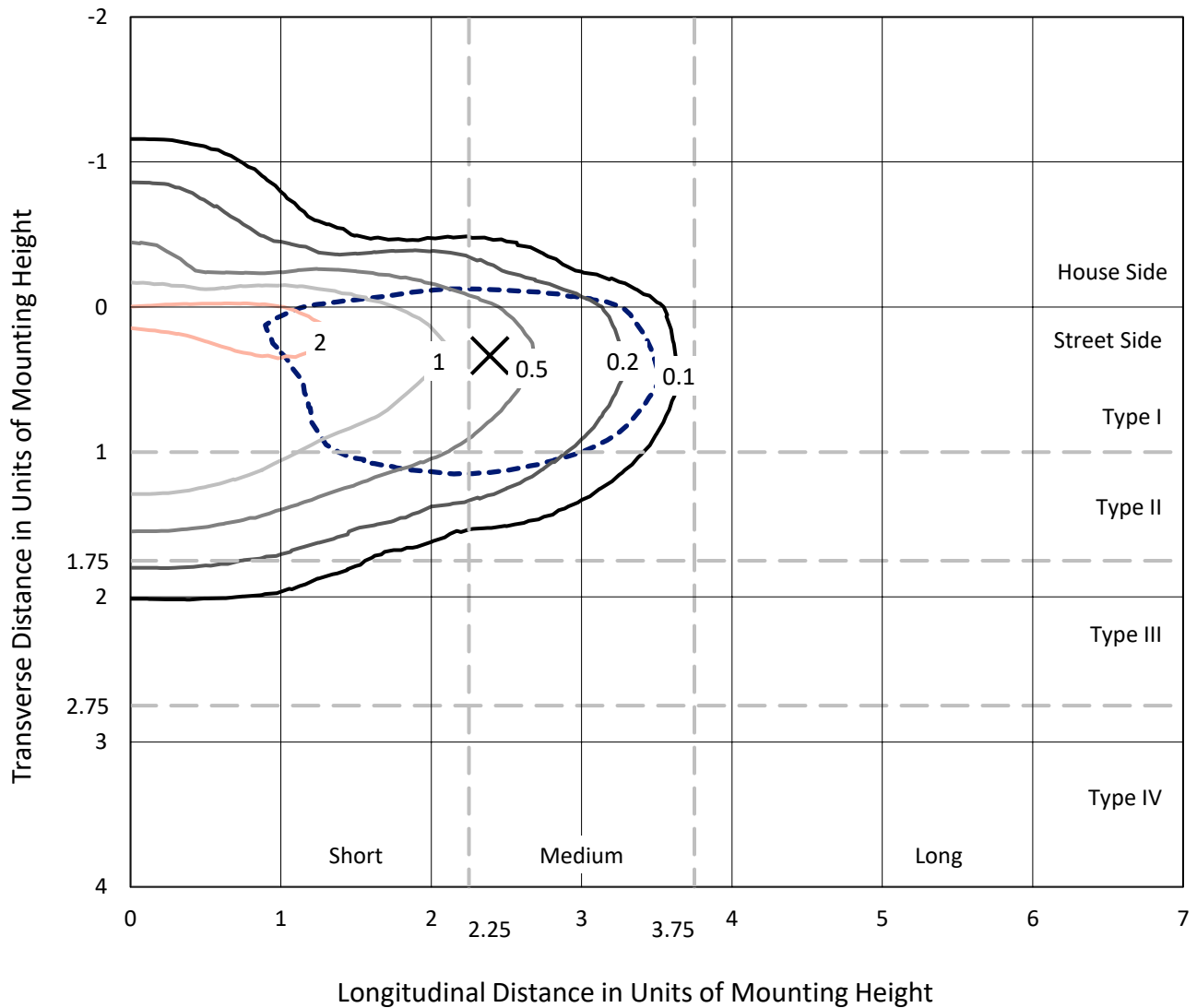
Lumens per Lamp: N/A  
Luminaire Lumens: 7608 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

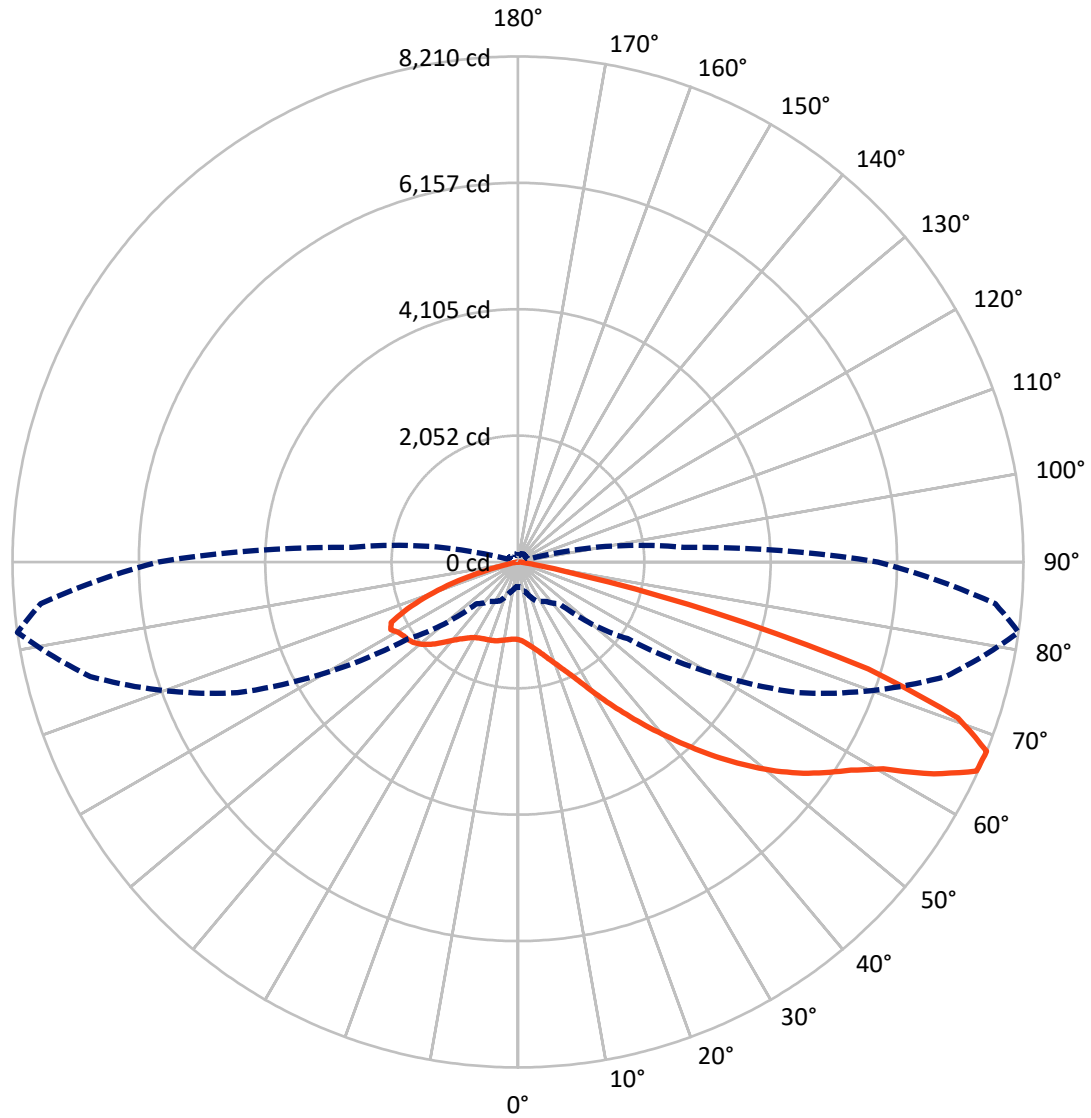
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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
<b>House Side</b>	Lumens	1378.1	0.0	1378.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	6229.9	0.0	6229.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	7608.0	0.0	7608.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.3	1.5
10°-20°	291.8	3.8
20°-30°	467.4	6.1
30°-40°	826.5	10.9
40°-50°	1448.0	19.0
50°-60°	1931.3	25.4
60°-70°	1797.9	23.6
70°-80°	690.0	9.1
80°-90°	42.9	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°	7608.0	100.0
0°-180°	7608.0	100.0

**Coefficient of Utilization**



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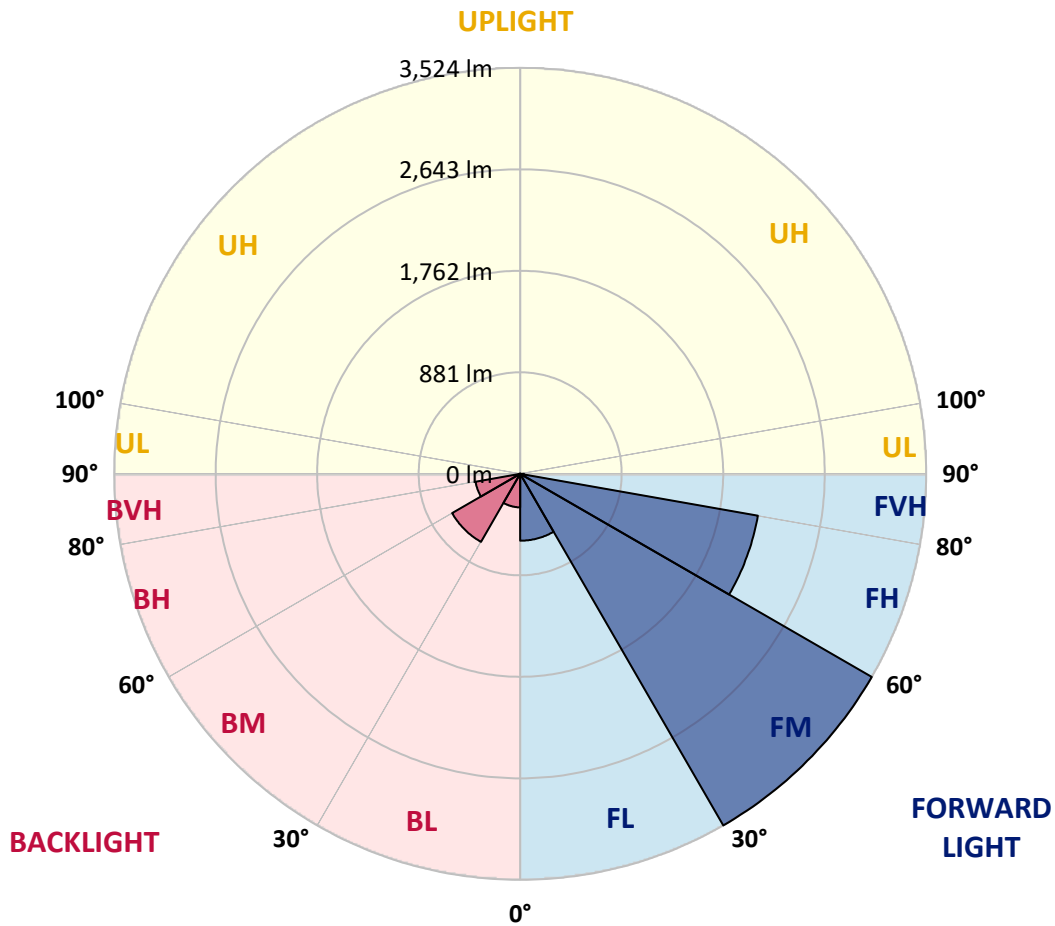
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.4	7.6			
FM (30°-60°)	3523.7	46.3			
FH (60°-80°)	2094.6	27.5			G2/5000
FVH (80°-90°)	31.2	0.4			G1/100
BL (0°-30°)	291.1	3.8	B1/500		
BM (30°-60°)	682.0	9.0	B1/1000		
BH (60°-80°)	393.3	5.2	B1/500		G1/500
BVH (80°-90°)	11.7	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°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1332.1	1339.8	1335.4	1333.2	1329.4	1323.9	1319.5	1305.9	1291.6	1282.3
5°	1359.0	1366.7	1366.1	1368.3	1371.0	1372.7	1371.6	1356.2	1336.0	1320.1
7.5°	1336.0	1344.7	1351.9	1362.8	1382.0	1402.3	1412.1	1408.8	1388.0	1366.1
10°	1270.8	1280.1	1297.1	1322.8	1363.4	1407.2	1443.9	1460.9	1447.7	1423.6
12.5°	1151.4	1160.7	1194.1	1250.0	1317.9	1394.0	1464.2	1509.6	1512.9	1488.8
15°	1017.2	1026.5	1062.1	1132.2	1235.7	1357.9	1475.1	1561.1	1590.1	1569.3
17.5°	933.9	942.1	969.0	1025.4	1133.3	1285.6	1471.3	1615.9	1682.2	1665.7
20°	908.7	915.8	928.4	967.9	1057.7	1210.5	1446.1	1667.4	1781.3	1772.0
22.5°	935.6	942.1	946.0	963.5	1019.9	1161.2	1414.3	1720.0	1896.3	1897.4
25°	997.5	1004.0	999.7	1010.6	1035.3	1145.9	1402.3	1781.9	2040.9	2053.0
27.5°	1099.3	1099.9	1089.5	1088.9	1092.8	1168.9	1414.9	1848.1	2223.3	2245.8
30°	1303.7	1295.4	1255.5	1212.2	1192.5	1237.9	1449.9	1926.5	2438.6	2478.6
32.5°	1618.6	1606.6	1533.2	1429.6	1325.6	1349.1	1512.9	2015.7	2673.1	2745.4
35°	1960.4	1957.1	1880.4	1726.5	1544.7	1507.4	1615.3	2133.0	2928.9	3043.9
37.5°	2278.1	2276.5	2232.7	2051.3	1830.1	1728.2	1779.7	2286.3	3202.7	3369.3
40°	2568.4	2573.4	2529.5	2367.4	2144.5	2011.4	2003.1	2475.9	3507.3	3723.6
42.5°	2819.3	2824.8	2780.4	2660.5	2455.0	2324.7	2277.6	2708.1	3804.7	4104.3
45°	2989.7	3023.6	3017.0	2921.2	2773.8	2638.5	2607.3	2999.5	4143.8	4508.0
47.5°	3037.9	3069.1	3118.4	3131.5	3041.7	2908.6	2945.8	3350.6	4486.7	4912.3
50°	2919.0	2948.0	3050.5	3186.8	3249.3	3208.2	3275.0	3726.9	4837.8	5315.4
52.5°	2684.6	2714.1	2843.4	3059.2	3313.9	3443.2	3605.3	4097.8	5177.9	5697.2
55°	2345.5	2376.7	2542.7	2787.0	3190.7	3540.2	3880.9	4468.1	5489.6	6040.7
57.5°	1884.3	1907.3	2079.8	2421.6	2880.7	3443.7	4084.1	4872.3	5783.2	6378.1
60°	1228.1	1248.3	1448.8	1830.1	2366.9	3121.7	4124.6	5323.1	6173.2	6816.8
62.5°	816.7	830.4	949.3	1229.2	1666.8	2503.2	3887.4	5683.0	6745.1	7580.4
65°	560.4	574.0	692.9	887.9	1076.9	1655.9	3205.5	5635.3	7263.3	8186.8
67.5°	399.9	411.4	512.2	696.2	779.5	961.9	2173.0	5026.2	7188.8	8209.8
70°	286.5	293.0	376.3	542.3	619.5	577.9	1208.4	3844.2	6294.3	7581.0
72.5°	200.5	202.7	261.3	413.0	499.0	421.8	575.1	2563.0	4760.6	5950.3
75°	135.8	138.6	175.8	302.9	400.4	322.1	304.6	1374.3	2794.7	3293.7
77.5°	83.3	84.4	113.4	207.1	299.6	245.4	196.1	582.3	1081.3	1061.6
80°	47.1	47.1	72.3	128.7	204.3	158.3	137.5	247.6	342.3	300.7
82.5°	26.3	26.8	52.6	80.0	135.3	93.7	75.6	114.5	147.9	130.9
85°	11.0	12.1	32.3	37.8	64.6	46.6	30.7	48.2	54.8	48.8
87.5°	1.1	1.6	9.9	7.1	7.7	9.3	4.4	9.3	7.7	7.7
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°
1260.4	0°	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4	1260.4
1279.0	2.5°	1268.6	1260.4	1239.6	1215.5	1183.7	1168.4	1147.6	1133.3	1121.3	1122.4
1310.8	5°	1293.3	1272.4	1225.9	1167.8	1095.5	1044.0	989.2	951.5	920.8	914.2
1354.6	7.5°	1327.2	1294.3	1212.7	1108.1	986.0	893.4	810.7	757.5	719.8	707.7
1407.7	10°	1371.0	1323.4	1195.8	1033.1	857.2	739.5	650.7	609.1	583.4	574.6
1470.2	12.5°	1422.0	1356.8	1173.3	941.6	724.7	611.3	554.9	534.1	525.8	523.1
1546.9	15°	1486.1	1398.4	1139.3	833.1	612.4	533.0	508.9	506.1	507.2	506.1
1638.9	17.5°	1562.2	1443.9	1084.0	721.4	536.8	493.0	484.2	486.4	489.1	488.6
1741.9	20°	1645.5	1488.8	1013.3	622.3	485.3	464.5	459.6	461.8	463.9	462.9
1860.7	22.5°	1740.2	1537.0	935.0	545.0	450.8	438.2	432.7	433.3	433.3	431.1
2011.4	25°	1853.6	1590.1	852.9	490.2	424.5	414.7	408.1	405.9	402.6	396.0
2194.3	27.5°	1988.9	1646.6	774.0	451.9	403.7	394.4	386.7	381.2	373.0	362.1
2414.0	30°	2141.2	1715.0	707.2	427.8	387.3	378.0	369.2	361.0	348.9	335.2
2666.5	32.5°	2320.3	1788.4	658.4	411.9	372.5	362.6	352.2	342.3	329.2	315.5
2950.2	35°	2533.9	1877.2	629.9	401.0	361.0	347.8	336.3	325.4	315.5	303.5
3258.6	37.5°	2765.6	1971.4	621.2	395.5	353.3	333.0	319.9	312.2	311.1	304.0
3592.2	40°	3019.2	2083.1	627.7	392.2	345.1	318.8	304.6	302.9	305.6	293.0
3948.8	42.5°	3287.6	2215.7	638.7	388.4	333.6	304.6	290.9	290.9	288.7	271.1
4325.6	45°	3577.9	2368.5	649.6	379.0	319.9	290.3	279.9	276.1	266.8	249.8
4704.7	47.5°	3870.4	2524.1	657.9	362.1	303.5	278.3	268.9	260.2	246.5	231.2
5076.6	50°	4148.2	2663.7	649.1	336.9	284.8	266.8	256.9	244.8	230.1	219.7
5428.8	52.5°	4396.3	2784.8	611.8	307.3	265.1	254.7	245.9	233.3	221.3	210.3
5746.5	55°	4612.1	2882.8	546.1	279.4	247.6	244.3	235.5	219.7	203.2	193.9
6061.5	57.5°	4819.2	2957.3	463.9	256.4	231.7	232.8	219.7	205.4	190.1	180.2
6486.0	60°	5094.7	3057.0	380.7	235.0	214.7	218.0	203.8	193.4	174.2	161.6
7214.0	62.5°	5535.1	3212.0	302.4	208.7	195.0	196.1	190.1	177.5	154.5	139.7
7753.5	65°	5884.6	3155.1	238.3	180.2	172.5	174.2	174.2	160.5	135.8	118.9
7782.5	67.5°	5845.1	2701.5	190.1	152.3	151.2	152.3	156.1	144.6	120.5	106.8
7189.9	70°	5384.4	2148.8	152.3	126.5	131.5	128.7	139.7	132.0	108.5	94.8
5574.0	72.5°	4393.6	1548.0	116.1	104.6	100.8	105.2	126.0	118.9	90.4	75.0
2952.4	75°	2567.3	826.0	86.5	82.7	72.9	87.6	111.7	101.3	69.0	55.3
904.9	77.5°	835.9	288.1	63.5	60.8	54.2	70.7	95.3	85.5	56.4	43.8
265.1	80°	224.0	87.1	43.3	40.0	35.1	52.6	75.6	67.9	40.5	28.5
113.9	82.5°	89.8	36.7	25.2	22.5	19.2	36.2	59.7	54.8	30.1	18.1
35.6	85°	29.0	12.1	9.3	7.1	8.8	22.5	35.6	37.2	21.4	9.3
5.5	87.5°	3.8	1.6	1.6	2.2	1.6	3.8	11.0	10.4	6.0	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>
1260.4
1111.4
899.4
695.7
568.0
521.5
505.6
487.5
462.3
430.0
394.9
361.0
334.1
316.1
302.4
303.5
293.6
271.1
249.2
230.6
218.0
209.2
192.8
179.1
159.9
138.6
117.2
104.6
93.1
73.4
53.7
42.2
27.9
18.1
7.1
0.0
0.0

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