

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: P939786

Luminaire Tested: **GALN-SB2C-750-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12427 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

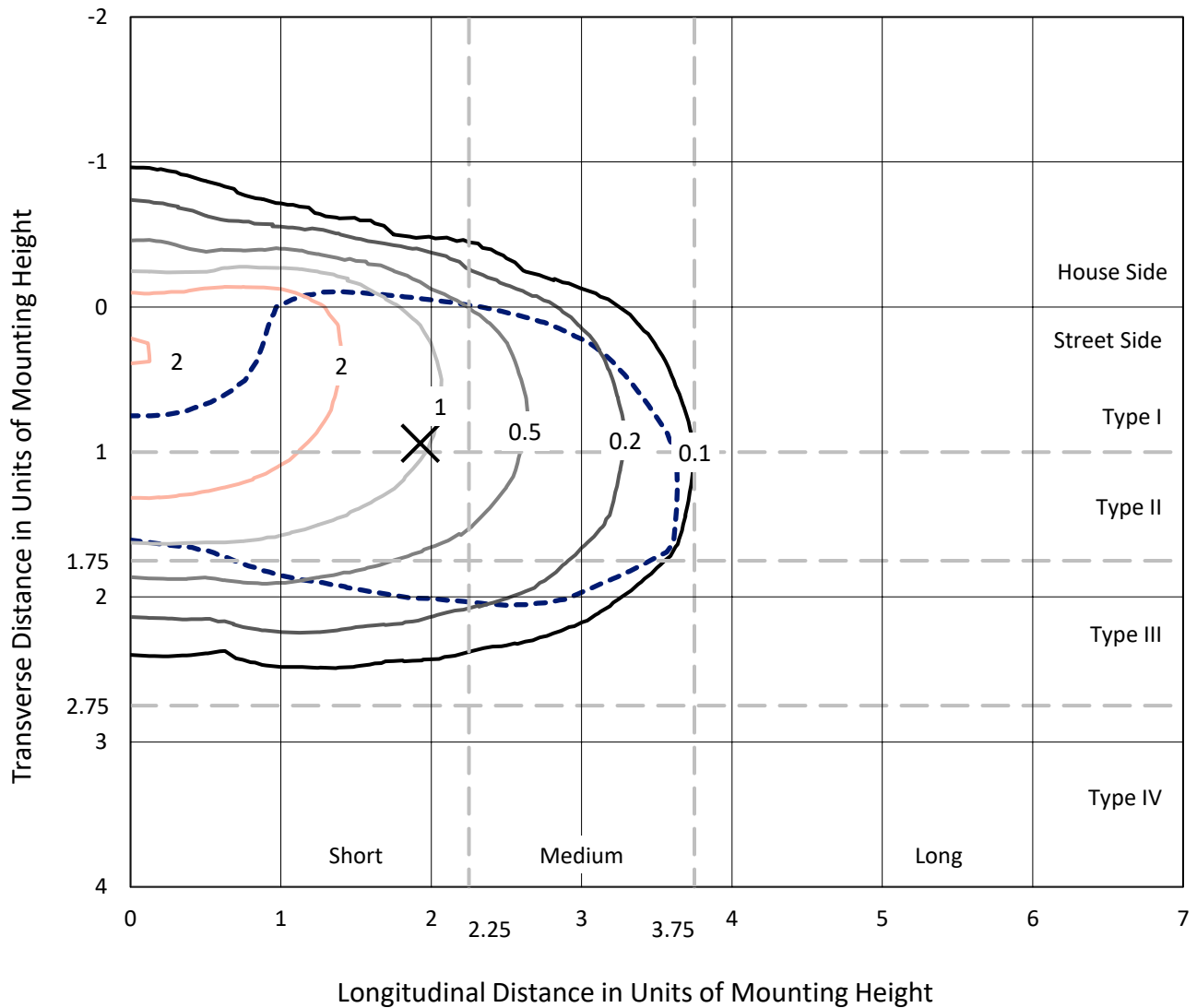
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

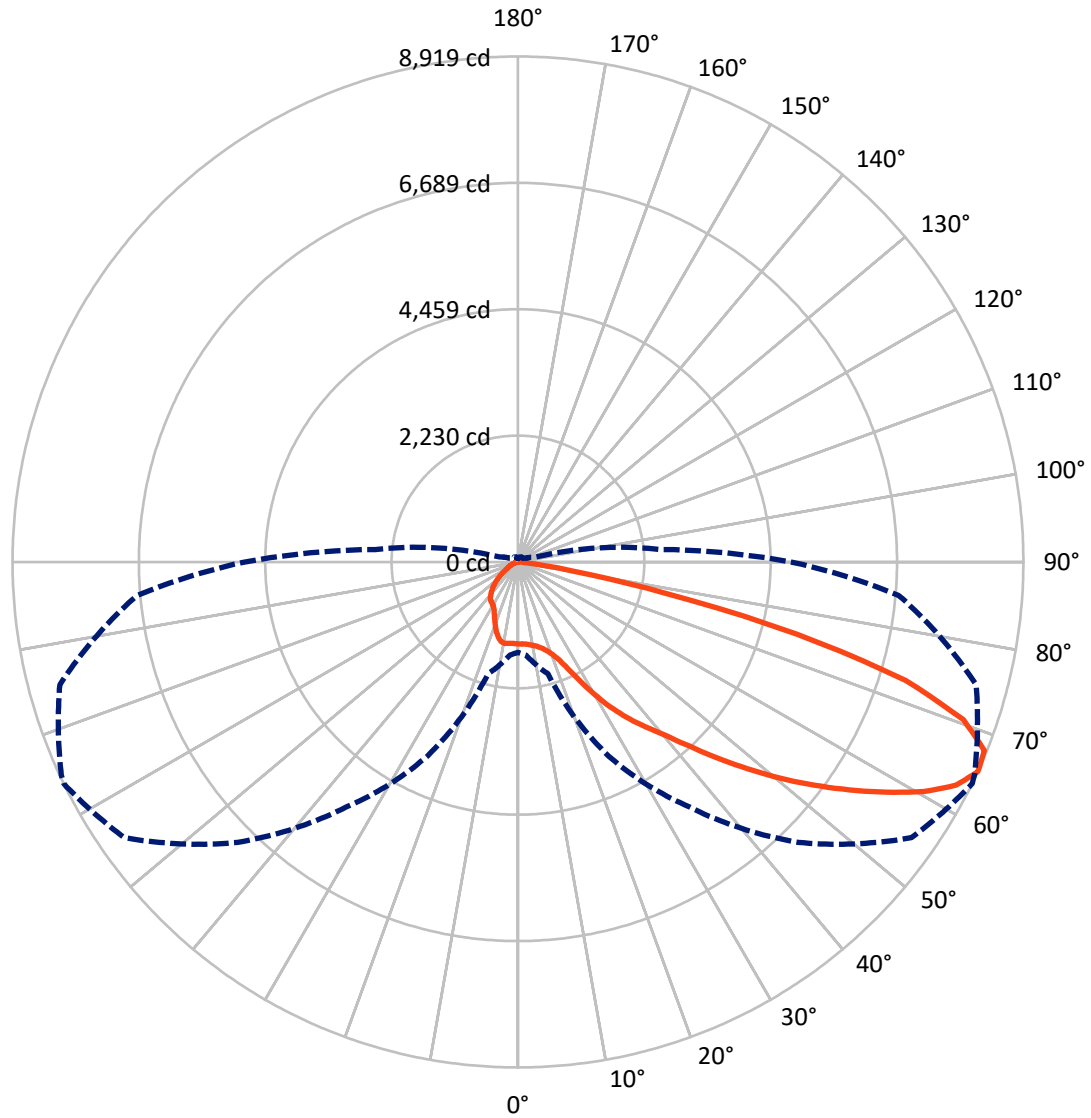
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.9	0.0	1661.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10765.1	0.0	10765.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	12427.0	0.0	12427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.1
10°-20°	361.7	2.9
20°-30°	685.4	5.5
30°-40°	1386.9	11.2
40°-50°	2362.5	19.0
50°-60°	3212.9	25.9
60°-70°	3017.0	24.3
70°-80°	1208.8	9.7
80°-90°	58.6	0.5
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°	12427.0	100.0
0°-180°	12427.0	100.0

Coefficient of Utilization



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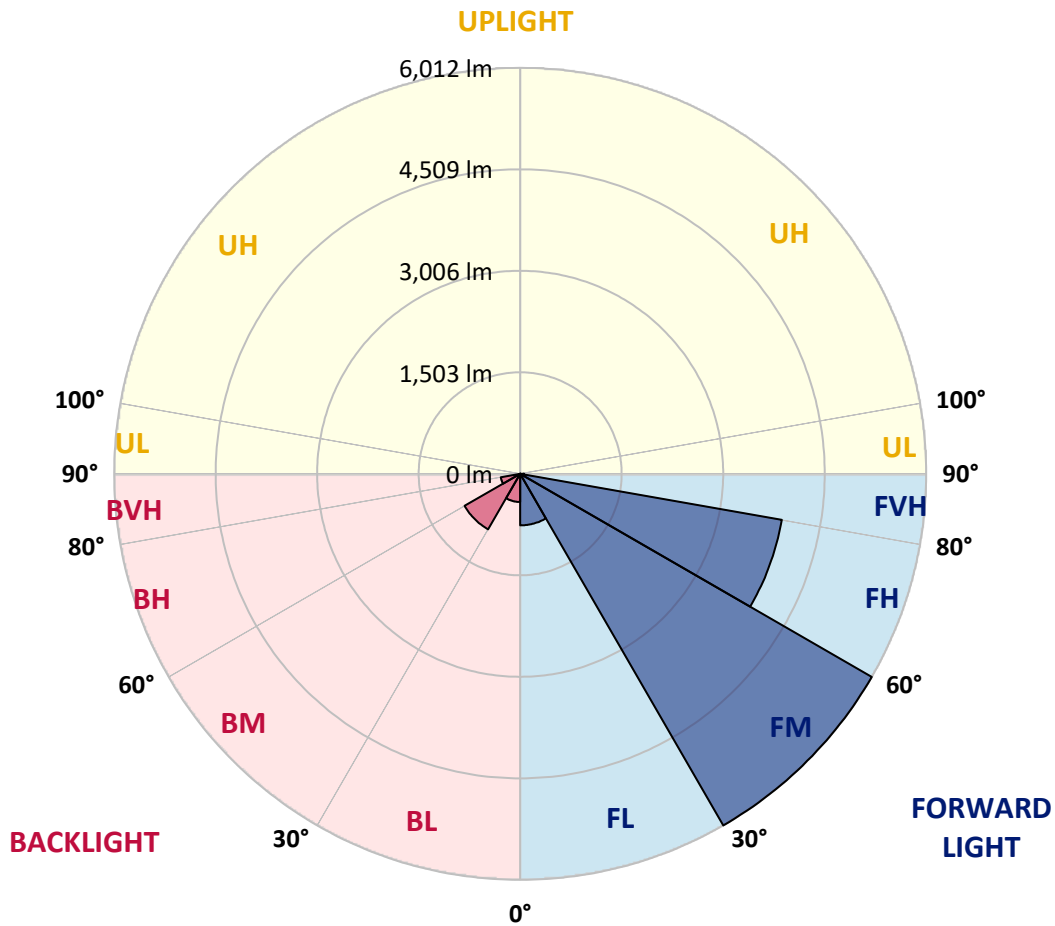
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.2	6.1			
FM (30°-60°)	6012.2	48.4			
FH (60°-80°)	3934.1	31.7			G2/5000
FVH (80°-90°)	55.7	0.4			G1/100
BL (0°-30°)	417.2	3.4	B1/500		
BM (30°-60°)	950.1	7.6	B1/1000		
BH (60°-80°)	291.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4
2.5°	1440.4	1450.4	1447.9	1445.4	1444.6	1446.2	1447.1	1446.2	1446.2	1446.2
5°	1412.9	1421.2	1421.2	1427.1	1435.4	1445.4	1452.9	1454.6	1456.2	1458.7
7.5°	1360.4	1367.1	1372.1	1391.2	1412.1	1438.7	1461.2	1472.9	1474.5	1483.7
10°	1324.6	1332.9	1341.3	1361.2	1391.2	1431.2	1469.5	1497.9	1502.0	1523.7
12.5°	1322.9	1331.3	1342.1	1363.7	1398.7	1441.2	1487.9	1528.7	1536.2	1567.9
15°	1340.4	1350.4	1360.4	1387.1	1424.6	1476.2	1526.2	1577.0	1584.5	1629.5
17.5°	1376.2	1389.6	1397.1	1423.7	1463.7	1521.2	1587.0	1645.3	1652.0	1704.5
20°	1447.1	1462.9	1465.4	1487.0	1526.2	1587.8	1666.2	1738.6	1747.0	1806.9
22.5°	1593.7	1616.2	1596.2	1607.0	1642.0	1703.6	1788.6	1880.3	1891.9	1960.2
25°	1851.9	1883.6	1831.9	1813.6	1828.6	1892.8	1999.4	2115.2	2128.5	2183.5
27.5°	2359.3	2318.5	2240.1	2163.5	2118.5	2155.2	2275.1	2418.4	2435.1	2488.4
30°	2916.6	2880.8	2775.0	2605.0	2498.4	2492.6	2603.4	2763.3	2782.5	2833.3
32.5°	3474.8	3440.6	3325.6	3116.5	2931.6	2840.0	2916.6	3094.0	3104.0	3136.5
35°	4023.8	3988.8	3873.8	3659.7	3432.3	3224.0	3209.0	3409.0	3412.3	3446.4
37.5°	4576.1	4546.9	4424.5	4214.5	3990.4	3703.0	3563.9	3707.2	3711.4	3744.7
40°	4970.1	4982.6	4898.5	4736.0	4543.6	4229.5	3962.1	4024.6	3999.6	4055.4
42.5°	5308.4	5333.4	5260.1	5178.4	5066.8	4790.2	4455.3	4444.5	4404.5	4434.5
45°	5600.8	5621.6	5555.8	5536.6	5534.1	5340.0	4994.3	4929.3	4873.5	4867.7
47.5°	5708.2	5748.2	5776.6	5840.7	5965.7	5884.0	5551.6	5450.8	5388.3	5342.5
50°	5749.1	5791.6	5888.2	6074.8	6370.5	6405.5	6106.5	5993.2	5916.5	5833.2
52.5°	5694.1	5769.9	5899.9	6213.9	6643.0	6823.7	6638.8	6539.7	6452.2	6316.4
55°	5370.0	5445.8	5711.6	6212.3	6778.8	7117.0	7142.0	7097.8	6999.5	6785.4
57.5°	4686.9	4799.4	5220.1	6000.7	6776.3	7369.4	7635.2	7666.8	7556.8	7250.3
60°	3740.5	3893.0	4406.1	5531.6	6567.1	7506.0	8067.5	8225.8	8109.2	7708.5
62.5°	2610.0	2786.6	3272.3	4796.9	6089.0	7407.7	8383.3	8675.7	8587.4	8118.3
65°	1592.0	1648.7	2040.2	3774.7	5275.9	6996.2	8480.7	8918.9	8889.8	8369.1
67.5°	1060.5	1108.0	1220.5	2588.4	4095.4	6173.9	8247.5	8876.4	8884.8	8328.3
70°	639.0	679.8	753.1	1505.4	2654.2	4886.8	7525.2	8334.9	8383.3	7782.6
72.5°	263.3	290.7	357.4	682.3	1374.6	3101.5	5992.3	7156.1	7268.6	6543.8
75°	149.1	163.3	209.9	342.4	596.5	1445.4	3629.7	5080.1	5245.9	4510.3
77.5°	99.1	105.8	135.8	221.6	335.7	493.2	1551.2	2646.7	2963.3	2463.4
80°	66.6	72.5	93.3	148.3	218.3	211.6	494.0	980.5	1206.3	846.4
82.5°	45.0	45.8	66.6	97.5	138.3	102.5	145.8	304.9	383.2	244.9
85°	25.8	25.0	49.2	56.6	61.6	42.5	44.2	91.6	120.0	103.3
87.5°	3.3	5.0	19.2	15.0	8.3	9.2	9.2	15.8	23.3	25.0
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°
1445.4	0°	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4	1445.4
1447.1	2.5°	1447.1	1446.2	1443.7	1441.2	1435.4	1432.1	1433.7	1432.1	1431.2	1432.1
1457.9	5°	1457.9	1455.4	1448.7	1440.4	1428.7	1414.6	1405.4	1392.1	1379.6	1372.1
1487.0	7.5°	1487.0	1484.5	1475.4	1452.1	1414.6	1355.4	1301.3	1253.8	1218.0	1197.1
1533.7	10°	1533.7	1529.5	1515.4	1463.7	1365.4	1236.3	1128.8	1039.7	981.4	953.9
1588.7	12.5°	1588.7	1583.7	1558.7	1452.9	1272.1	1070.5	922.2	823.1	768.9	744.8
1652.0	15°	1653.7	1647.0	1597.8	1401.2	1136.3	887.2	751.4	677.3	642.3	620.6
1732.8	17.5°	1734.5	1722.8	1627.0	1323.8	988.9	747.3	646.5	590.7	559.8	539.0
1838.6	20°	1839.4	1820.3	1650.3	1231.3	853.1	659.0	575.7	529.0	505.7	487.4
1988.6	22.5°	1986.1	1958.6	1678.7	1131.3	757.3	598.1	523.2	489.0	469.9	449.0
2197.7	25°	2167.7	2135.2	1713.6	1038.8	691.5	545.7	484.9	456.5	434.0	409.9
2471.7	27.5°	2421.8	2363.4	1755.3	963.0	634.8	500.7	449.9	418.2	392.4	372.4
2782.5	30°	2705.0	2609.2	1791.9	917.2	583.2	459.0	404.0	372.4	348.2	334.1
3061.6	32.5°	2973.3	2843.3	1816.1	897.2	536.5	411.5	354.1	319.9	301.6	297.4
3334.8	35°	3226.5	3054.9	1813.6	878.1	494.8	364.1	304.9	269.9	255.8	258.3
3628.9	37.5°	3518.1	3280.7	1796.1	848.1	460.7	320.7	262.4	231.6	219.1	219.9
3986.3	40°	3857.1	3541.4	1785.3	791.4	423.2	280.7	227.4	202.4	193.3	189.9
4362.8	42.5°	4218.7	3793.8	1787.0	727.3	376.6	244.9	203.3	182.4	174.1	171.6
4781.9	45°	4581.9	4034.6	1789.5	660.6	327.4	217.4	185.8	168.3	163.3	160.0
5206.7	47.5°	4923.5	4239.5	1742.8	589.0	279.1	196.6	171.6	160.0	155.8	151.6
5633.3	50°	5241.7	4376.2	1630.3	505.7	240.8	179.9	160.8	152.5	148.3	144.1
6019.8	52.5°	5489.1	4397.8	1444.6	419.9	214.1	167.4	154.1	146.6	141.6	137.5
6332.2	55°	5599.1	4262.0	1180.5	339.9	193.3	156.6	147.5	140.0	134.1	130.0
6578.0	57.5°	5570.8	3976.3	920.6	273.2	173.3	145.8	139.1	134.1	127.5	120.8
6777.1	60°	5431.7	3593.9	694.0	227.4	155.0	134.1	130.0	125.8	116.6	106.6
6853.7	62.5°	5190.9	3113.2	494.8	188.3	135.0	120.8	119.1	115.8	102.5	84.1
6740.4	65°	4822.7	2529.2	333.2	156.6	115.8	105.8	106.6	100.8	83.3	62.5
6325.6	67.5°	4284.5	1849.4	213.3	128.3	96.6	88.3	89.1	85.8	70.8	53.3
5539.1	70°	3598.9	1224.6	139.1	97.5	77.5	68.3	73.3	74.1	60.0	43.3
4251.2	72.5°	2638.4	723.1	97.5	72.5	56.6	47.5	60.0	61.6	48.3	32.5
2557.5	75°	1503.7	343.2	73.3	52.5	35.0	33.3	46.7	46.7	33.3	21.7
1107.2	77.5°	631.5	143.3	51.7	34.2	20.0	19.2	31.7	29.2	16.7	10.0
269.9	80°	182.4	64.1	27.5	16.7	8.3	7.5	12.5	9.2	4.2	1.7
102.5	82.5°	71.6	28.3	10.8	6.7	3.3	3.3	1.7	0.0	0.0	0.0
58.3	85°	42.5	11.7	5.0	2.5	0.8	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	10.8	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1445.4
1435.4
1373.7
1198.0
951.4
742.3
621.5
537.3
484.0
445.7
407.4
368.2
331.6
299.9
258.3
223.3
189.1
170.8
160.0
151.6
144.1
136.6
129.1
120.0
105.0
82.5
60.8
50.8
41.7
30.8
20.0
10.0
1.7
0.0
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