

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: P946735

Luminaire Tested: **GALN-SB2B-750-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-750-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

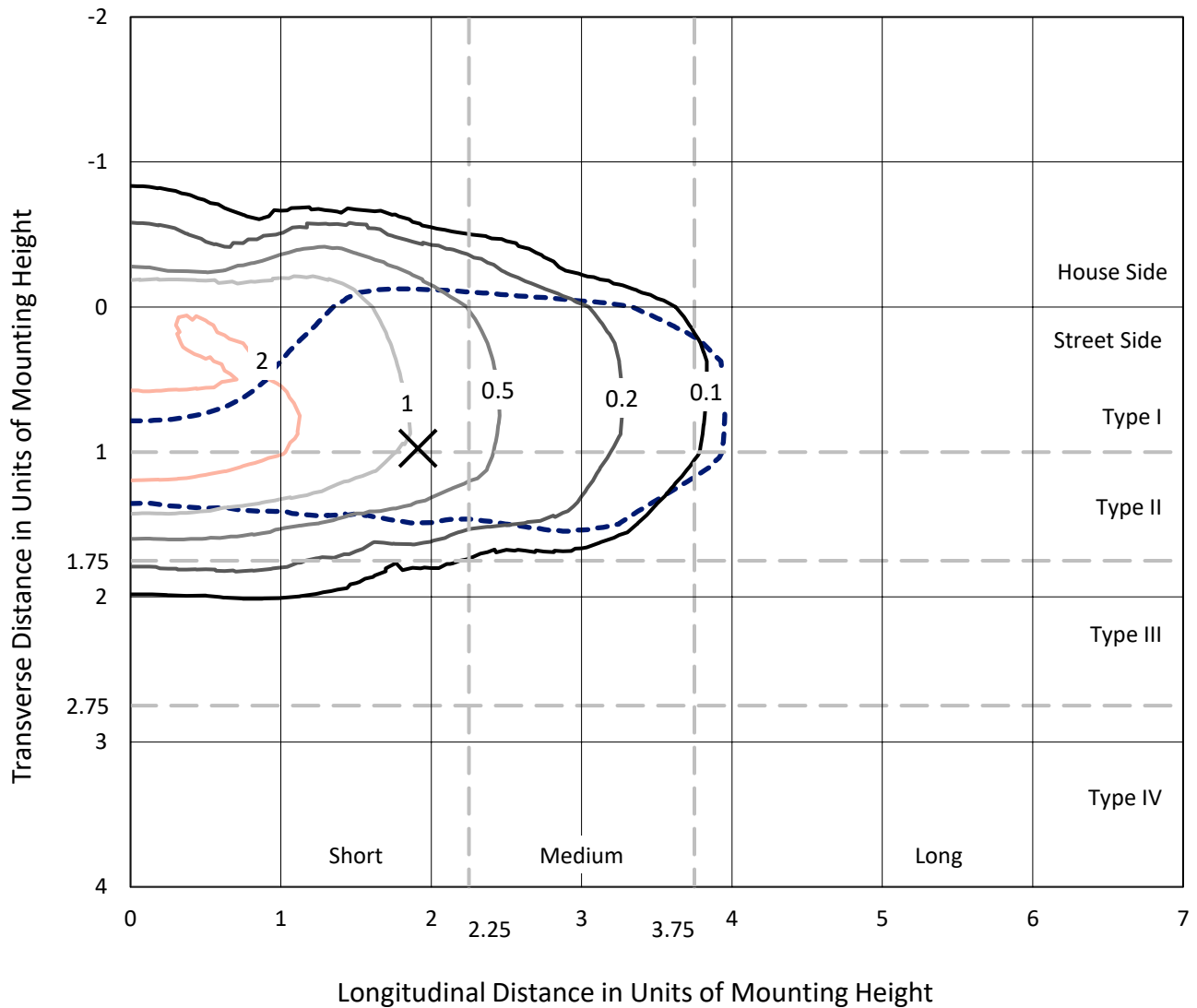
Lumens per Lamp: N/A  
Luminaire Lumens: 9105 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

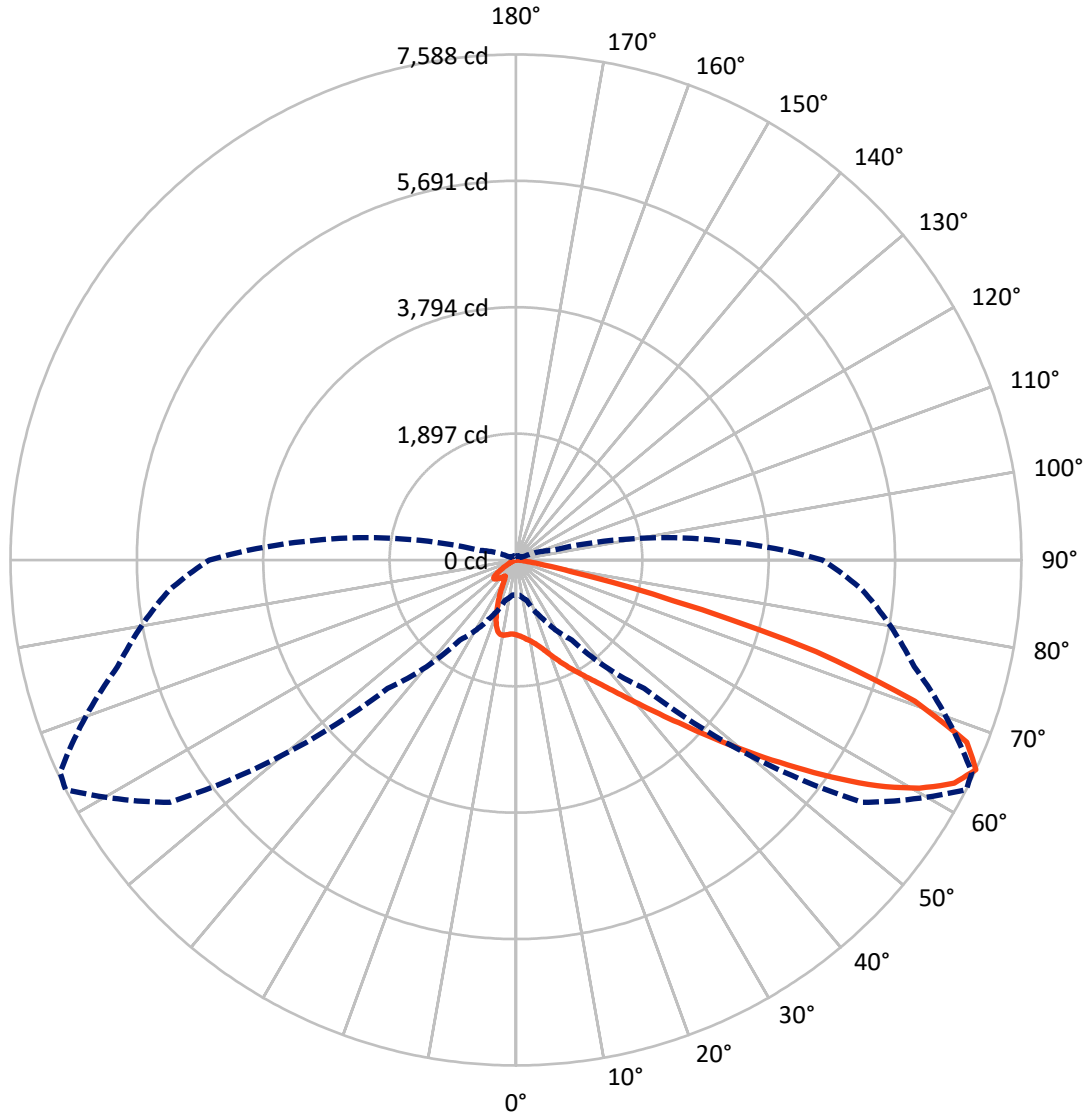
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1338.4	0.0	1338.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	7766.6	0.0	7766.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	9105.0	0.0	9105.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	1.2
10°-20°	293.8	3.2
20°-30°	511.5	5.6
30°-40°	922.0	10.1
40°-50°	1828.6	20.1
50°-60°	2490.8	27.4
60°-70°	1988.1	21.8
70°-80°	899.7	9.9
80°-90°	64.7	0.7
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°	9105.0	100.0
0°-180°	9105.0	100.0

**Coefficient of Utilization**



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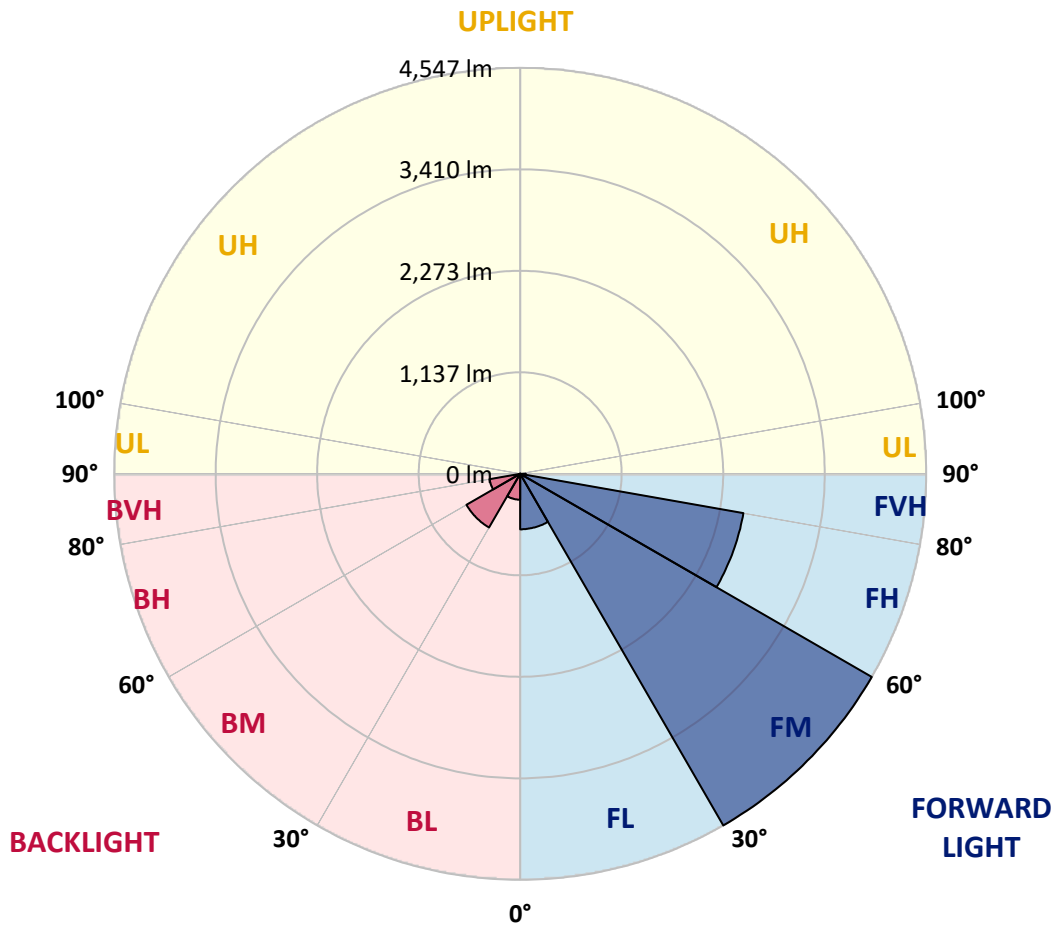
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	621.5	6.8			
FM (30°-60°)	4546.8	49.9			
FH (60°-80°)	2538.4	27.9			G2/5000
FVH (80°-90°)	59.9	0.7			G1/100
BL (0°-30°)	289.6	3.2	B1/500		
BM (30°-60°)	694.5	7.6	B1/1000		
BH (60°-80°)	349.4	3.8	B1/500		G1/500
BVH (80°-90°)	4.8	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1150.0	1146.9	1151.3	1149.4	1148.2	1145.7	1144.4	1143.1	1140.6	1138.8
5°	1153.2	1151.3	1155.7	1159.4	1163.2	1166.9	1168.8	1171.3	1168.8	1163.8
7.5°	1126.9	1125.6	1135.0	1146.3	1163.2	1177.6	1193.3	1202.0	1202.7	1200.8
10°	1125.0	1121.8	1131.2	1145.0	1166.9	1192.6	1220.2	1239.0	1241.5	1249.6
12.5°	1154.4	1151.3	1164.4	1179.5	1202.0	1229.0	1262.8	1289.1	1292.9	1304.1
15°	1203.9	1199.5	1214.6	1234.0	1262.8	1293.5	1329.2	1353.0	1356.1	1369.9
17.5°	1261.5	1257.1	1274.7	1295.4	1326.7	1368.6	1410.0	1436.3	1440.1	1448.8
20°	1335.4	1329.8	1343.6	1362.4	1395.6	1445.7	1495.2	1532.8	1532.1	1532.1
22.5°	1421.3	1412.5	1424.4	1439.4	1470.7	1531.5	1597.3	1641.7	1641.7	1624.2
25°	1513.3	1504.6	1517.7	1531.5	1559.1	1628.0	1705.0	1760.1	1762.6	1732.6
27.5°	1628.6	1617.3	1627.3	1643.6	1659.9	1730.1	1821.5	1885.4	1886.7	1840.3
30°	1850.3	1818.4	1787.1	1769.5	1777.0	1846.6	1944.3	2015.1	2021.3	1957.4
32.5°	2256.2	2250.0	2139.7	1995.7	1920.5	1971.9	2081.5	2166.7	2170.4	2088.4
35°	2887.0	2879.5	2702.2	2427.9	2182.9	2139.7	2248.1	2348.9	2346.4	2253.7
37.5°	3639.9	3633.0	3399.4	3032.3	2635.8	2393.4	2462.9	2568.8	2584.5	2462.9
40°	4283.2	4257.5	4109.7	3755.8	3237.1	2814.3	2768.6	2838.8	2855.0	2711.0
42.5°	4770.5	4748.6	4673.4	4452.3	3965.0	3437.0	3128.8	3155.7	3173.9	3001.0
45°	5023.0	5017.9	5048.0	5027.3	4706.6	4201.1	3643.7	3531.5	3538.4	3322.3
47.5°	5058.7	5056.2	5193.3	5387.5	5344.3	5063.0	4304.5	4000.1	3975.6	3685.0
50°	4848.2	4843.2	5106.3	5470.2	5770.2	5787.1	5054.9	4528.1	4474.2	4060.2
52.5°	4176.1	4174.8	4607.0	5212.7	5919.9	6421.0	5796.5	5108.1	5017.9	4457.3
55°	3213.3	3236.5	3732.0	4447.9	5646.8	6726.1	6462.4	5752.1	5613.6	4857.0
57.5°	2276.3	2310.1	2799.9	3437.6	4800.0	6545.7	6912.8	6397.2	6248.2	5255.3
60°	1222.7	1252.8	1743.2	2504.3	3571.0	5873.0	7150.1	6957.2	6816.3	5633.7
62.5°	728.5	738.5	941.5	1616.7	2415.3	4486.8	7049.3	7383.8	7267.9	5951.3
65°	523.0	524.9	627.0	987.2	1466.4	2726.0	6342.1	7588.0	7552.3	6190.5
67.5°	440.3	439.1	481.7	655.8	999.1	1365.5	4860.7	7299.2	7450.8	6342.1
70°	377.7	379.6	429.7	480.4	751.0	773.0	2416.6	6355.3	6678.5	6382.2
72.5°	281.2	287.5	333.9	437.8	566.9	531.8	834.3	4712.3	5296.7	6013.3
75°	198.6	201.7	234.9	368.3	422.8	387.1	425.9	2436.0	3185.2	4610.2
77.5°	152.8	158.5	177.9	257.4	416.5	271.8	260.6	843.1	1295.4	2784.9
80°	82.7	92.7	128.4	186.0	292.5	192.3	129.0	335.7	439.1	1302.2
82.5°	42.6	47.6	89.6	134.0	166.6	167.9	63.9	139.7	181.0	402.1
85°	16.9	20.7	60.1	73.9	85.8	82.7	28.8	56.4	65.1	111.5
87.5°	3.8	6.3	21.9	16.9	16.3	17.5	6.9	13.2	12.5	13.2
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°
1123.7	0°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
1131.2	2.5°	1130.6	1128.1	1121.2	1113.7	1104.9	1099.9	1096.8	1096.2	1091.8	1088.7
1156.3	5°	1149.4	1146.9	1133.8	1118.1	1101.2	1088.0	1075.5	1064.2	1047.9	1044.8
1192.6	7.5°	1187.0	1180.1	1158.8	1137.5	1105.6	1067.4	1021.0	967.8	920.2	905.7
1240.9	10°	1233.3	1224.0	1197.0	1159.4	1088.7	984.7	872.5	768.6	685.9	662.7
1297.9	12.5°	1286.0	1277.8	1242.1	1172.6	1017.9	829.3	657.7	528.7	448.5	428.4
1358.6	15°	1348.6	1336.7	1287.2	1152.5	891.3	630.1	451.6	375.2	346.4	342.6
1428.2	17.5°	1415.0	1395.6	1327.3	1080.5	721.0	447.9	348.9	327.0	314.4	310.7
1498.3	20°	1475.8	1450.7	1351.1	971.5	538.7	348.9	312.6	298.2	286.9	282.5
1568.5	22.5°	1536.5	1500.8	1351.1	823.1	404.0	309.4	286.9	273.7	260.6	254.9
1643.6	25°	1599.8	1552.2	1327.3	657.7	325.1	283.8	262.5	248.0	236.8	229.9
1715.0	27.5°	1661.2	1595.4	1272.8	501.1	289.4	261.2	239.9	226.1	215.5	210.5
1792.7	30°	1719.4	1638.0	1196.4	380.2	266.2	239.3	219.2	207.3	196.7	191.7
1893.6	32.5°	1798.3	1691.9	1115.0	311.9	246.2	218.6	200.4	189.2	179.8	176.0
2024.5	35°	1908.0	1771.4	1044.8	306.3	229.3	201.7	183.5	172.9	163.5	160.4
2193.6	37.5°	2063.3	1899.8	1007.8	343.9	215.5	186.7	169.7	158.5	149.7	147.2
2408.4	40°	2255.0	2074.0	1027.9	381.5	206.1	173.5	157.2	145.9	138.4	135.3
2655.2	42.5°	2482.4	2288.8	1138.8	410.3	199.8	162.2	145.3	132.8	127.8	126.5
2935.2	45°	2743.6	2524.9	1308.5	441.0	189.8	151.6	133.4	124.0	120.3	119.6
3239.6	47.5°	3040.5	2784.3	1505.2	479.2	179.8	141.6	124.0	117.8	114.6	113.4
3557.2	50°	3334.9	3045.5	1707.5	500.5	171.6	132.2	116.5	111.5	109.0	108.4
3893.0	52.5°	3643.0	3314.2	1871.0	480.4	164.7	124.6	110.2	106.5	104.0	103.4
4202.4	55°	3936.8	3531.5	1899.2	407.8	151.0	117.1	103.4	101.5	98.3	98.3
4516.2	57.5°	4189.9	3640.5	1700.0	299.4	137.2	105.9	96.5	94.6	92.1	91.5
4799.3	60°	4422.3	3609.2	1312.3	201.7	122.1	94.6	87.7	86.4	83.9	80.8
5045.5	62.5°	4553.2	3471.4	897.6	131.5	107.1	82.7	77.7	77.0	71.4	65.1
5227.8	65°	4602.7	3188.3	560.0	95.8	89.6	70.8	67.0	65.8	57.6	50.7
5331.1	67.5°	4559.4	2722.3	282.5	75.8	70.8	58.9	55.1	55.1	49.5	43.2
5324.9	70°	4386.6	2040.8	119.0	60.8	54.5	45.1	45.1	47.6	42.0	35.1
5048.6	72.5°	4011.3	1373.0	63.3	46.4	40.7	31.9	37.0	38.8	33.2	26.3
4132.2	75°	3188.9	837.5	43.8	34.5	25.7	22.5	28.2	29.4	22.5	17.5
2833.1	77.5°	2181.1	481.1	29.4	21.9	16.3	13.2	19.4	18.2	11.9	8.1
1092.4	80°	957.7	200.4	16.9	10.0	6.3	5.0	6.9	5.0	3.8	2.5
149.7	82.5°	112.1	47.0	6.3	3.8	2.5	1.3	0.6	0.0	0.0	0.0
45.7	85°	23.2	5.6	3.1	1.3	0.6	0.0	0.0	0.0	0.0	0.0
8.1	87.5°	4.4	1.3	0.6	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>
1123.7
1091.8
1043.6
898.9
653.9
422.8
338.9
308.8
280.0
251.8
227.4
210.5
192.3
176.0
160.4
146.6
134.7
126.5
119.0
113.4
108.4
103.4
97.7
90.8
80.2
63.9
50.1
42.6
34.5
26.3
16.9
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