

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: P947806

Luminaire Tested: **GALN-SB3A-750-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947806  
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-SB3A-750-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

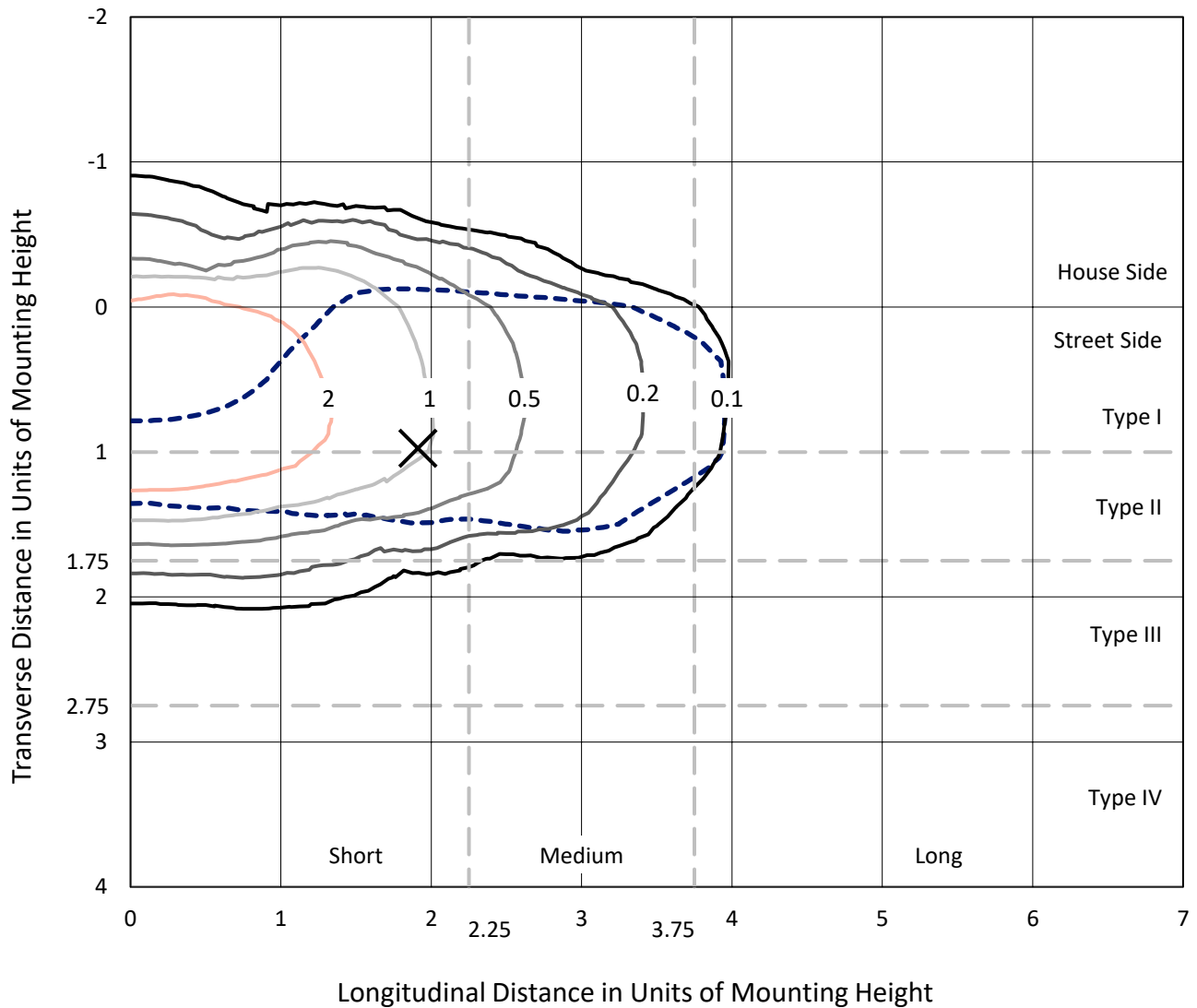
Lumens per Lamp: N/A  
Luminaire Lumens: 10882 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

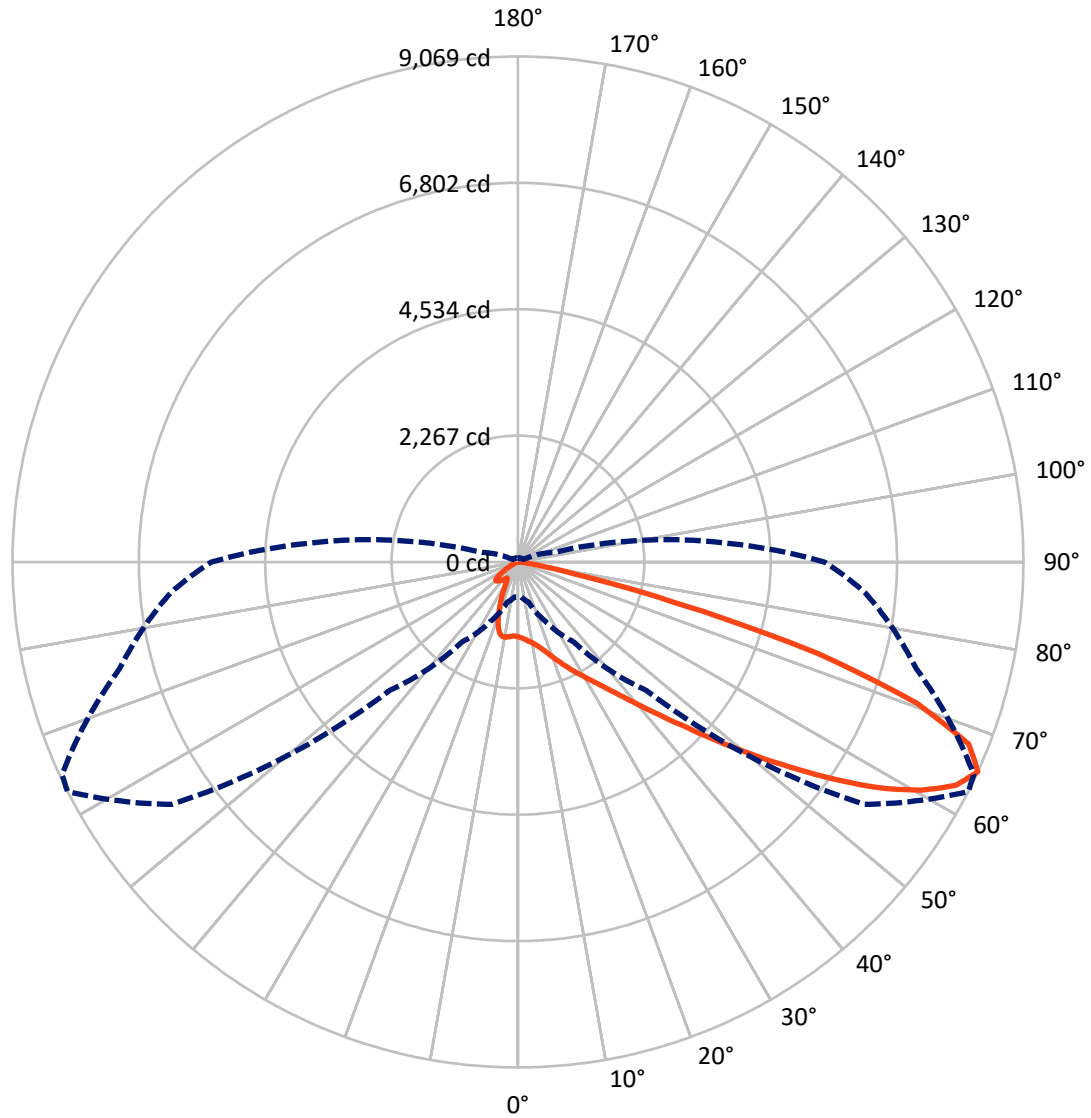
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1599.6	0.0	1599.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	9282.4	0.0	9282.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	10882.0	0.0	10882.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.5	1.2
10°-20°	351.1	3.2
20°-30°	611.4	5.6
30°-40°	1101.9	10.1
40°-50°	2185.4	20.1
50°-60°	2976.9	27.4
60°-70°	2376.2	21.8
70°-80°	1075.3	9.9
80°-90°	77.3	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°	10882.0	100.0
0°-180°	10882.0	100.0

**Coefficient of Utilization**



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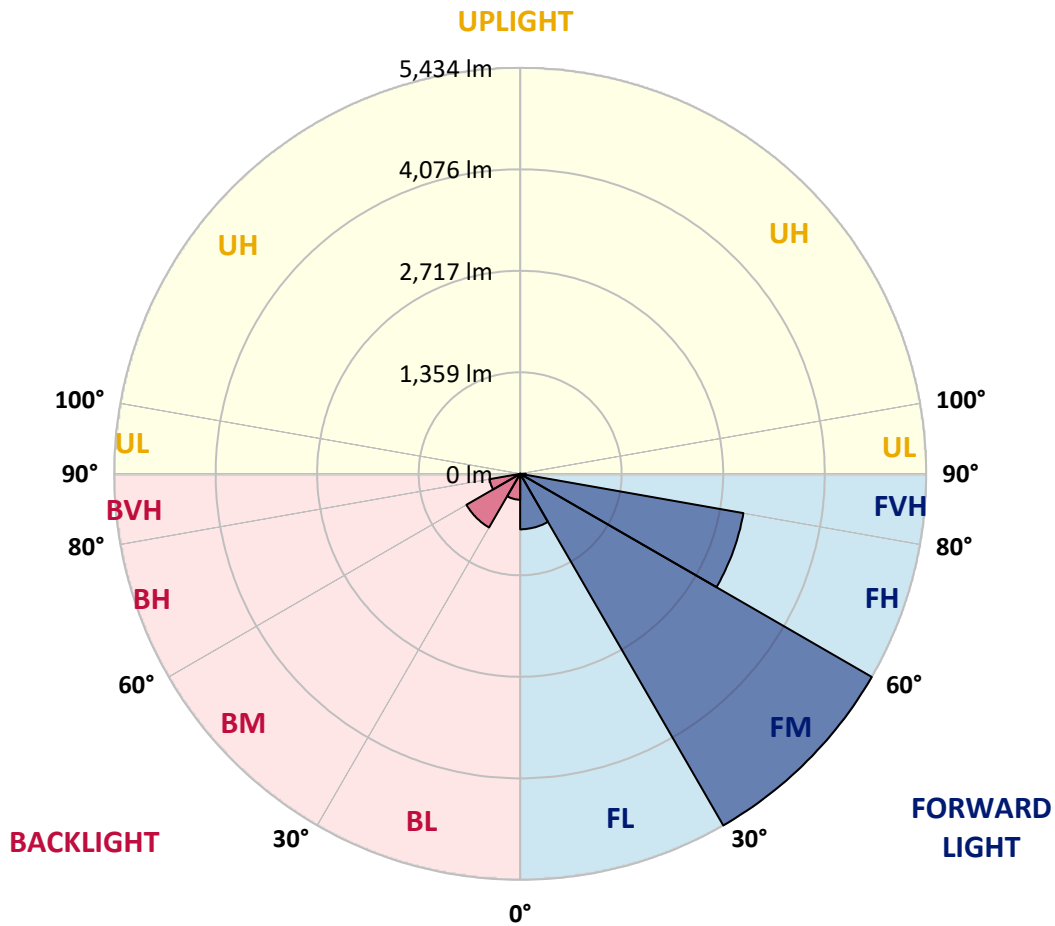
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.8	6.8			
FM (30°-60°)	5434.2	49.9			
FH (60°-80°)	3033.8	27.9			G2/5000
FVH (80°-90°)	71.6	0.7			G1/100
BL (0°-30°)	346.2	3.2	B1/500		
BM (30°-60°)	830.1	7.6	B1/1000		
BH (60°-80°)	417.6	3.8	B1/500		G1/500
BVH (80°-90°)	5.7	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°	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0
2.5°	1374.5	1370.7	1376.0	1373.7	1372.2	1369.2	1367.7	1366.3	1363.3	1361.0
5°	1378.2	1376.0	1381.2	1385.7	1390.2	1394.7	1396.9	1399.9	1396.9	1391.0
7.5°	1346.8	1345.3	1356.5	1370.0	1390.2	1407.4	1426.1	1436.6	1437.4	1435.1
10°	1344.5	1340.8	1352.0	1368.5	1394.7	1425.4	1458.3	1480.8	1483.8	1493.5
12.5°	1379.7	1376.0	1391.7	1409.7	1436.6	1468.8	1509.2	1540.7	1545.2	1558.7
15°	1438.9	1433.6	1451.6	1474.8	1509.2	1545.9	1588.6	1617.0	1620.8	1637.3
17.5°	1507.7	1502.5	1523.5	1548.2	1585.6	1635.8	1685.2	1716.6	1721.1	1731.6
20°	1596.1	1589.3	1605.8	1628.3	1668.0	1727.8	1787.0	1831.9	1831.2	1831.2
22.5°	1698.6	1688.2	1702.4	1720.4	1757.8	1830.4	1909.0	1962.2	1962.2	1941.2
25°	1808.7	1798.2	1813.9	1830.4	1863.3	1945.7	2037.8	2103.7	2106.6	2070.7
27.5°	1946.4	1933.0	1944.9	1964.4	1983.9	2067.7	2177.0	2253.4	2254.9	2199.5
30°	2211.5	2173.3	2135.8	2114.9	2123.9	2207.0	2323.8	2408.3	2415.8	2339.5
32.5°	2696.6	2689.1	2557.3	2385.1	2295.3	2356.7	2487.7	2589.5	2594.0	2495.9
35°	3450.4	3441.5	3229.6	2901.7	2609.0	2557.3	2686.8	2807.4	2804.4	2693.6
37.5°	4350.3	4342.1	4062.8	3624.1	3150.2	2860.5	2943.6	3070.1	3088.9	2943.6
40°	5119.1	5088.4	4911.8	4488.8	3868.9	3363.6	3308.9	3392.8	3412.3	3240.1
42.5°	5701.6	5675.4	5585.5	5321.3	4738.8	4107.7	3739.4	3771.6	3793.3	3586.7
45°	6003.3	5997.3	6033.2	6008.5	5625.2	5021.1	4354.8	4220.8	4229.0	3970.7
47.5°	6045.9	6043.0	6206.9	6439.0	6387.3	6051.2	5144.6	4780.8	4751.6	4404.2
50°	5794.4	5788.4	6102.8	6537.8	6896.4	6916.6	6041.5	5411.9	5347.5	4852.6
52.5°	4991.1	4989.6	5506.2	6230.1	7075.3	7674.2	6927.8	6105.1	5997.3	5327.3
55°	3840.5	3868.2	4460.3	5316.0	6748.9	8038.8	7723.6	6874.7	6709.2	5804.9
57.5°	2720.5	2761.0	3346.4	4108.5	5736.8	7823.2	8261.9	7645.8	7467.6	6281.0
60°	1461.3	1497.3	2083.4	2993.0	4267.9	7019.2	8545.6	8315.0	8146.6	6733.2
62.5°	870.7	882.6	1125.2	1932.2	2886.7	5362.4	8425.1	8824.9	8686.4	7112.7
65°	625.1	627.4	749.4	1179.8	1752.5	3258.0	7579.9	9068.9	9026.2	7398.7
67.5°	526.3	524.8	575.7	783.8	1194.1	1632.0	5809.4	8723.8	8905.0	7579.9
70°	451.4	453.7	513.6	574.2	897.6	923.8	2888.2	7595.6	7981.9	7627.8
72.5°	336.1	343.6	399.0	523.3	677.5	635.6	997.2	5632.0	6330.4	7186.9
75°	237.3	241.1	280.7	440.2	505.3	462.7	509.1	2911.4	3806.8	5509.9
77.5°	182.7	189.4	212.6	307.7	497.8	324.9	311.4	1007.7	1548.2	3328.4
80°	98.8	110.8	153.5	222.3	349.6	229.8	154.2	401.3	524.8	1556.4
82.5°	50.9	56.9	107.1	160.2	199.1	200.6	76.4	166.9	216.4	480.6
85°	20.2	24.7	71.9	88.3	102.6	98.8	34.4	67.4	77.9	133.3
87.5°	4.5	7.5	26.2	20.2	19.5	21.0	8.2	15.7	15.0	15.7
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°
1343.0	0°	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0	1343.0
1352.0	2.5°	1351.3	1348.3	1340.0	1331.1	1320.6	1314.6	1310.9	1310.1	1304.9	1301.1
1382.0	5°	1373.7	1370.7	1355.0	1336.3	1316.1	1300.4	1285.4	1271.9	1252.5	1248.7
1425.4	7.5°	1418.7	1410.4	1385.0	1359.5	1321.3	1275.7	1220.3	1156.6	1099.7	1082.5
1483.0	10°	1474.1	1462.8	1430.6	1385.7	1301.1	1176.8	1042.8	918.6	819.8	792.1
1551.2	12.5°	1536.9	1527.2	1484.5	1401.4	1216.5	991.2	786.1	631.8	536.0	512.1
1623.8	15°	1611.8	1597.6	1538.4	1377.5	1065.3	753.1	539.8	448.4	414.0	409.5
1706.9	17.5°	1691.2	1668.0	1586.3	1291.4	861.7	535.3	417.0	390.8	375.8	371.3
1790.7	20°	1763.8	1733.8	1614.8	1161.1	643.8	417.0	373.6	356.3	342.9	337.6
1874.6	22.5°	1836.4	1793.7	1614.8	983.7	482.9	369.8	342.9	327.2	311.4	304.7
1964.4	25°	1912.0	1855.1	1586.3	786.1	388.5	339.1	313.7	296.5	283.0	274.7
2049.8	27.5°	1985.4	1906.8	1521.2	598.9	345.9	312.2	286.7	270.3	257.5	251.5
2142.6	30°	2055.0	1957.7	1429.9	454.4	318.2	286.0	262.0	247.8	235.1	229.1
2263.1	32.5°	2149.3	2022.1	1332.6	372.8	294.2	261.3	239.6	226.1	214.9	210.4
2419.6	35°	2280.3	2117.1	1248.7	366.1	274.0	241.1	219.3	206.6	195.4	191.6
2621.7	37.5°	2466.0	2270.6	1204.5	411.0	257.5	223.1	202.9	189.4	178.9	175.9
2878.5	40°	2695.1	2478.7	1228.5	455.9	246.3	207.4	187.9	174.4	165.4	161.7
3173.4	42.5°	2966.8	2735.5	1361.0	490.4	238.8	193.9	173.7	158.7	152.7	151.2
3508.1	45°	3279.0	3017.7	1563.9	527.0	226.8	181.2	159.5	148.2	143.7	143.0
3871.9	47.5°	3633.9	3327.7	1799.0	572.7	214.9	169.2	148.2	140.7	137.0	135.5
4251.5	50°	3985.7	3639.8	2040.8	598.2	205.1	158.0	139.2	133.3	130.3	129.5
4652.7	52.5°	4354.0	3961.0	2236.2	574.2	196.9	149.0	131.8	127.3	124.3	123.5
5022.6	55°	4705.1	4220.8	2269.8	487.4	180.4	140.0	123.5	121.3	117.5	117.5
5397.6	57.5°	5007.6	4351.0	2031.8	357.8	164.0	126.5	115.3	113.0	110.0	109.3
5736.0	60°	5285.3	4313.6	1568.4	241.1	146.0	113.0	104.8	103.3	100.3	96.6
6030.2	62.5°	5441.8	4148.9	1072.8	157.2	128.0	98.8	92.8	92.1	85.3	77.9
6248.1	65°	5500.9	3810.5	669.3	114.5	107.1	84.6	80.1	78.6	68.9	60.6
6371.6	67.5°	5449.3	3253.6	337.6	90.6	84.6	70.4	65.9	65.9	59.1	51.7
6364.1	70°	5242.7	2439.0	142.2	72.6	65.1	53.9	53.9	56.9	50.2	41.9
6034.0	72.5°	4794.2	1641.0	75.6	55.4	48.7	38.2	44.2	46.4	39.7	31.4
4938.7	75°	3811.3	1000.9	52.4	41.2	30.7	27.0	33.7	35.2	27.0	21.0
3386.1	77.5°	2606.7	574.9	35.2	26.2	19.5	15.7	23.2	21.7	14.2	9.7
1305.6	80°	1144.7	239.6	20.2	12.0	7.5	6.0	8.2	6.0	4.5	3.0
178.9	82.5°	134.0	56.1	7.5	4.5	3.0	1.5	0.7	0.0	0.0	0.0
54.7	85°	27.7	6.7	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0
9.7	87.5°	5.2	1.5	0.7	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>
1343.0
1304.9
1247.2
1074.3
781.6
505.3
405.0
369.1
334.6
300.9
271.8
251.5
229.8
210.4
191.6
175.2
161.0
151.2
142.2
135.5
129.5
123.5
116.8
108.6
95.8
76.4
59.9
50.9
41.2
31.4
20.2
10.5
3.0
0.0
0.0
0.0
0.0

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