

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: P940846

Luminaire Tested: **GALN-SB4A-835-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940846  
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-SB4A-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

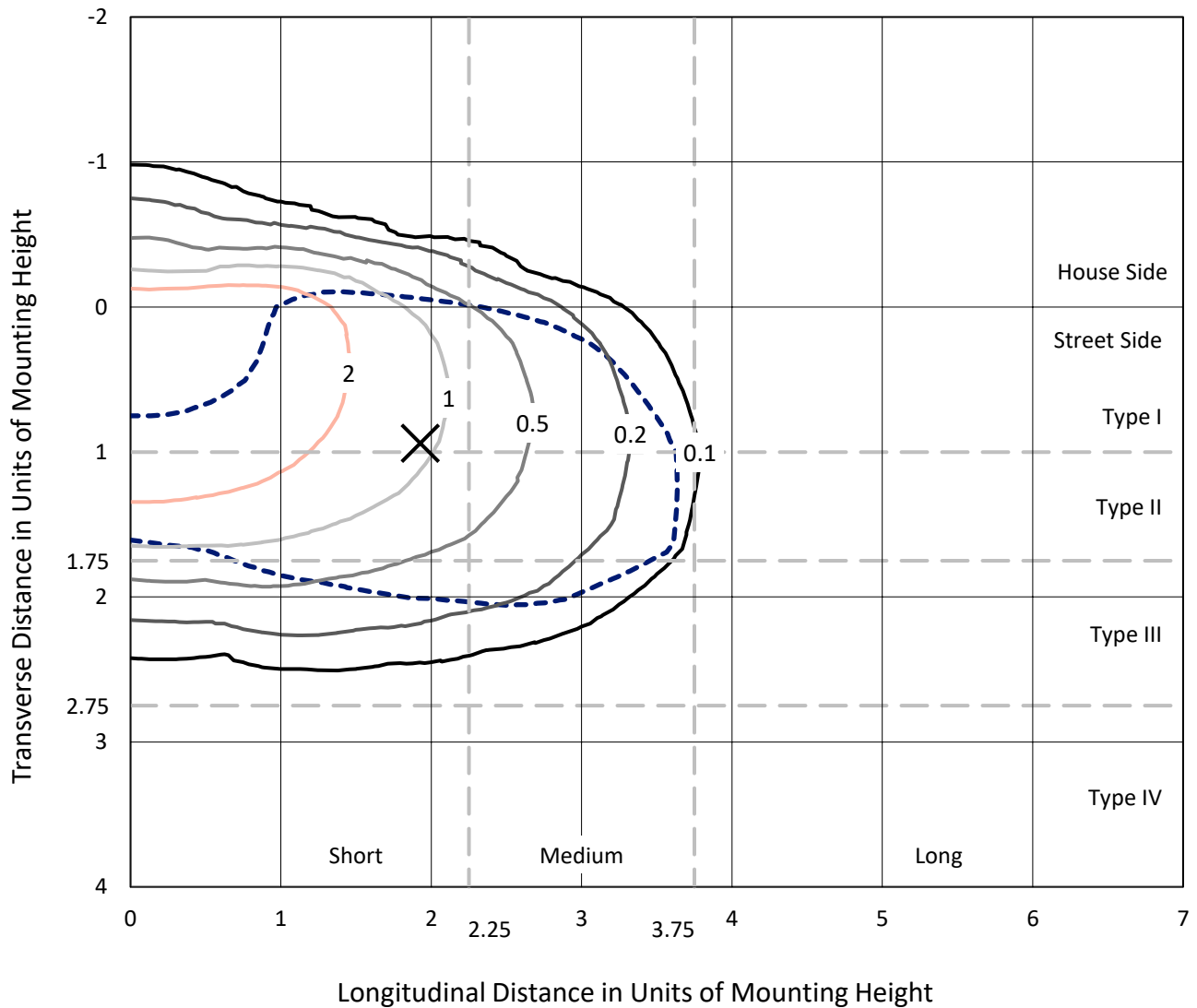
Lumens per Lamp: N/A  
Luminaire Lumens: 13078 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

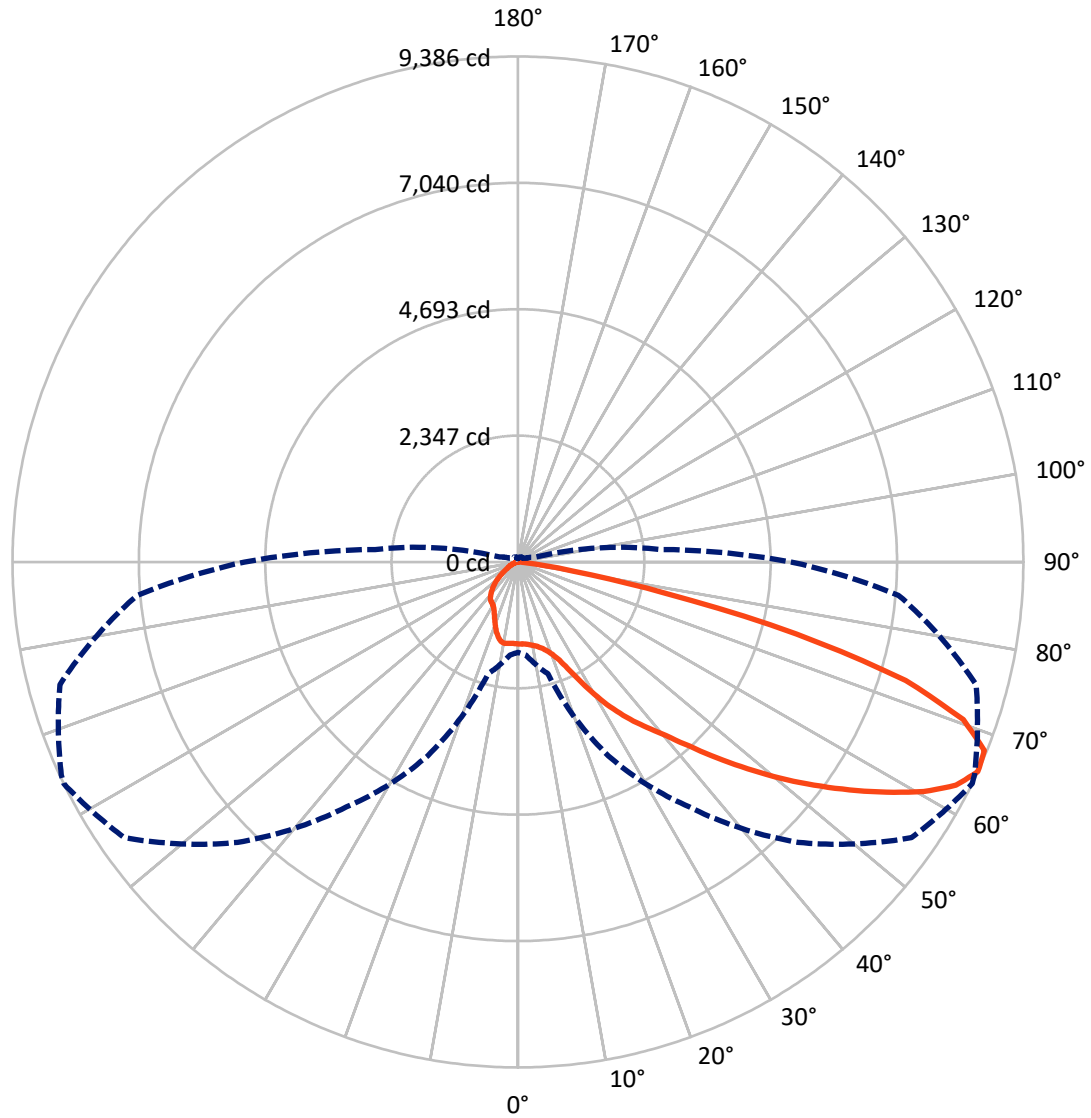
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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
<b>House Side</b>	Lumens	1748.9	0.0	1748.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	11329.1	0.0	11329.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	13078.0	0.0	13078.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.3	1.1
10°-20°	380.6	2.9
20°-30°	721.3	5.5
30°-40°	1459.5	11.2
40°-50°	2486.3	19.0
50°-60°	3381.2	25.9
60°-70°	3175.1	24.3
70°-80°	1272.1	9.7
80°-90°	61.6	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°	13078.0	100.0
0°-180°	13078.0	100.0

**Coefficient of Utilization**



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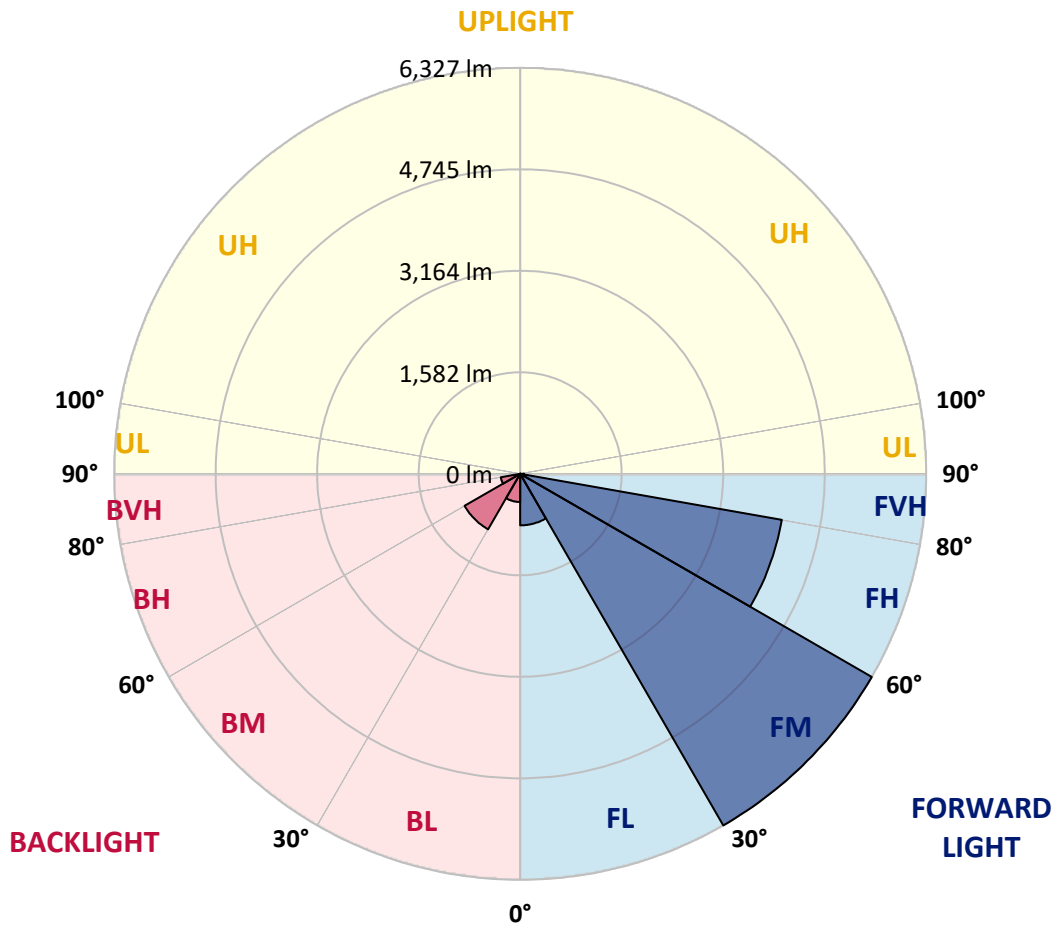
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.1	6.1			
FM (30°-60°)	6327.1	48.4			
FH (60°-80°)	4140.2	31.7			G2/5000
FVH (80°-90°)	58.6	0.4			G1/100
BL (0°-30°)	439.1	3.4	B1/500		
BM (30°-60°)	999.9	7.6	B1/1000		
BH (60°-80°)	307.0	2.3	B1/500		G1/500
BVH (80°-90°)	3.0	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°	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1
2.5°	1515.8	1526.4	1523.7	1521.1	1520.2	1522.0	1522.9	1522.0	1522.0	1522.0
5°	1486.9	1495.7	1495.7	1501.8	1510.6	1521.1	1529.0	1530.8	1532.5	1535.1
7.5°	1431.7	1438.7	1444.0	1464.1	1486.0	1514.1	1537.8	1550.0	1551.8	1561.4
10°	1394.0	1402.8	1411.5	1432.6	1464.1	1506.2	1546.5	1576.3	1580.7	1603.5
12.5°	1392.2	1401.0	1412.4	1435.2	1472.0	1516.7	1565.8	1608.8	1616.7	1650.0
15°	1410.6	1421.2	1431.7	1459.7	1499.2	1553.5	1606.1	1659.6	1667.5	1714.9
17.5°	1448.3	1462.4	1470.3	1498.3	1540.4	1600.9	1670.1	1731.5	1738.5	1793.8
20°	1522.9	1539.5	1542.1	1564.9	1606.1	1671.0	1753.4	1829.7	1838.5	1901.6
22.5°	1677.2	1700.8	1679.8	1691.2	1728.0	1792.9	1882.3	1978.8	1991.0	2062.9
25°	1948.9	1982.3	1927.9	1908.6	1924.4	1991.9	2104.1	2226.0	2240.0	2297.9
27.5°	2482.9	2439.9	2357.5	2276.8	2229.5	2268.1	2394.3	2545.1	2562.6	2618.8
30°	3069.4	3031.7	2920.4	2741.5	2629.3	2623.1	2739.7	2908.1	2928.2	2981.7
32.5°	3656.8	3620.8	3499.9	3279.8	3085.2	2988.7	3069.4	3256.1	3266.7	3300.8
35°	4234.6	4197.7	4076.7	3851.4	3612.1	3392.9	3377.1	3587.5	3591.0	3627.0
37.5°	4815.8	4785.1	4656.3	4435.3	4199.5	3897.0	3750.6	3901.4	3905.8	3940.9
40°	5230.5	5243.7	5155.1	4984.1	4781.6	4451.1	4169.7	4235.4	4209.1	4267.9
42.5°	5586.5	5612.8	5535.6	5449.7	5332.2	5041.1	4688.7	4677.3	4635.2	4666.8
45°	5894.2	5916.1	5846.8	5826.7	5824.0	5619.8	5255.9	5187.5	5128.8	5122.7
47.5°	6007.3	6049.4	6079.2	6146.7	6278.2	6192.3	5842.5	5736.4	5670.6	5622.4
50°	6050.2	6094.9	6196.6	6393.0	6704.3	6741.1	6426.3	6307.1	6226.5	6138.8
52.5°	5992.4	6072.2	6208.9	6539.4	6991.0	7181.2	6986.6	6882.2	6790.2	6647.3
55°	5651.3	5731.1	6010.8	6537.7	7133.9	7489.8	7516.1	7469.6	7366.2	7140.9
57.5°	4932.4	5050.8	5493.5	6315.0	7131.2	7755.5	8035.1	8068.4	7952.7	7630.1
60°	3936.5	4096.9	4637.0	5821.4	6911.2	7899.2	8490.1	8656.7	8534.0	8112.3
62.5°	2746.8	2932.6	3443.8	5048.1	6407.9	7795.8	8822.4	9130.2	9037.2	8543.6
65°	1675.4	1735.0	2147.1	3972.4	5552.3	7362.7	8925.0	9386.2	9355.5	8807.5
67.5°	1116.1	1166.0	1284.4	2724.0	4309.9	6497.4	8679.5	9341.4	9350.2	8764.6
70°	672.4	715.4	792.6	1584.2	2793.2	5142.8	7919.4	8771.6	8822.4	8190.3
72.5°	277.0	306.0	376.1	718.0	1446.6	3264.0	6306.2	7531.0	7649.4	6886.6
75°	156.9	171.8	220.9	360.3	627.7	1521.1	3819.9	5346.2	5520.7	4746.6
77.5°	104.3	111.3	142.9	233.2	353.3	519.0	1632.5	2785.3	3118.5	2592.5
80°	70.1	76.3	98.2	156.1	229.7	222.7	519.9	1031.9	1269.5	890.7
82.5°	47.3	48.2	70.1	102.6	145.5	107.8	153.4	320.9	403.3	257.8
85°	27.2	26.3	51.7	59.6	64.9	44.7	46.5	96.4	126.2	108.7
87.5°	3.5	5.3	20.2	15.8	8.8	9.6	9.6	16.7	24.5	26.3
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°
1521.1	0°	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1
1522.9	2.5°	1522.9	1522.0	1519.4	1516.7	1510.6	1507.1	1508.8	1507.1	1506.2	1507.1
1534.3	5°	1534.3	1531.6	1524.6	1515.8	1503.6	1488.7	1479.0	1465.0	1451.8	1444.0
1564.9	7.5°	1564.9	1562.3	1552.7	1528.1	1488.7	1426.4	1369.4	1319.5	1281.8	1259.8
1614.0	10°	1614.0	1609.7	1594.8	1540.4	1436.9	1301.1	1188.0	1094.1	1032.8	1003.8
1671.9	12.5°	1671.9	1666.6	1640.3	1529.0	1338.7	1126.6	970.5	866.2	809.2	783.8
1738.5	15°	1740.3	1733.3	1681.5	1474.6	1195.8	933.7	790.8	712.8	676.0	653.2
1823.6	17.5°	1825.3	1813.1	1712.2	1393.1	1040.7	786.4	680.3	621.6	589.2	567.2
1934.9	20°	1935.8	1915.6	1736.8	1295.8	897.8	693.5	605.8	556.7	532.2	512.9
2092.7	22.5°	2090.1	2061.2	1766.6	1190.6	796.9	629.5	550.6	514.6	494.5	472.6
2312.8	25°	2281.2	2247.0	1803.4	1093.3	727.7	574.3	510.3	480.4	456.8	431.3
2601.2	27.5°	2548.6	2487.3	1847.2	1013.5	668.1	526.9	473.4	440.1	412.9	391.9
2928.2	30°	2846.7	2745.9	1885.8	965.3	613.7	483.1	425.2	391.9	366.5	351.6
3221.9	32.5°	3129.0	2992.2	1911.2	944.2	564.6	433.1	372.6	336.7	317.4	313.0
3509.5	35°	3395.5	3214.9	1908.6	924.1	520.8	383.1	320.9	284.1	269.2	271.8
3819.0	37.5°	3702.4	3452.5	1890.2	892.5	484.8	337.5	276.2	243.7	230.6	231.5
4195.1	40°	4059.2	3726.9	1878.8	832.9	445.4	295.5	239.3	213.0	203.4	199.9
4591.4	42.5°	4439.7	3992.6	1880.6	765.4	396.3	257.8	213.9	192.0	183.2	180.6
5032.4	45°	4822.0	4245.9	1883.2	695.2	344.6	228.8	195.5	177.1	171.8	168.3
5479.5	47.5°	5181.4	4461.6	1834.1	619.8	293.7	206.9	180.6	168.3	163.9	159.6
5928.4	50°	5516.3	4605.4	1715.7	532.2	253.4	189.4	169.2	160.4	156.1	151.7
6335.2	52.5°	5776.7	4628.2	1520.2	441.9	225.3	176.2	162.2	154.3	149.0	144.7
6663.9	55°	5892.4	4485.3	1242.3	357.7	203.4	164.8	155.2	147.3	141.2	136.8
6922.6	57.5°	5862.6	4184.6	968.8	287.6	182.4	153.4	146.4	141.2	134.1	127.1
7132.1	60°	5716.2	3782.2	730.3	239.3	163.1	141.2	136.8	132.4	122.7	112.2
7212.8	62.5°	5462.8	3276.3	520.8	198.1	142.0	127.1	125.4	121.9	107.8	88.5
7093.5	65°	5075.3	2661.7	350.7	164.8	121.9	111.3	112.2	106.1	87.7	65.8
6656.9	67.5°	4509.0	1946.3	224.4	135.0	101.7	92.9	93.8	90.3	74.5	56.1
5829.3	70°	3787.4	1288.8	146.4	102.6	81.5	71.9	77.2	78.0	63.1	45.6
4473.9	72.5°	2776.6	761.0	102.6	76.3	59.6	50.0	63.1	64.9	50.8	34.2
2691.5	75°	1582.5	361.2	77.2	55.2	36.8	35.1	49.1	49.1	35.1	22.8
1165.2	77.5°	664.6	150.8	54.4	35.9	21.0	20.2	33.3	30.7	17.5	10.5
284.1	80°	192.0	67.5	28.9	17.5	8.8	7.9	13.2	9.6	4.4	1.8
107.8	82.5°	75.4	29.8	11.4	7.0	3.5	3.5	1.8	0.0	0.0	0.0
61.4	85°	44.7	12.3	5.3	2.6	0.9	0.0	0.0	0.0	0.0	0.0
13.2	87.5°	11.4	2.6	1.8	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>
1521.1
1510.6
1445.7
1260.7
1001.2
781.2
654.0
565.5
509.4
469.0
428.7
387.5
348.9
315.6
271.8
235.0
199.0
179.7
168.3
159.6
151.7
143.8
135.9
126.2
110.5
86.8
64.0
53.5
43.8
32.4
21.0
10.5
1.8
0.0
0.0
0.0
0.0

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