

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: P940826

Luminaire Tested: **GALN-SB4A-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940826
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-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 12261 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

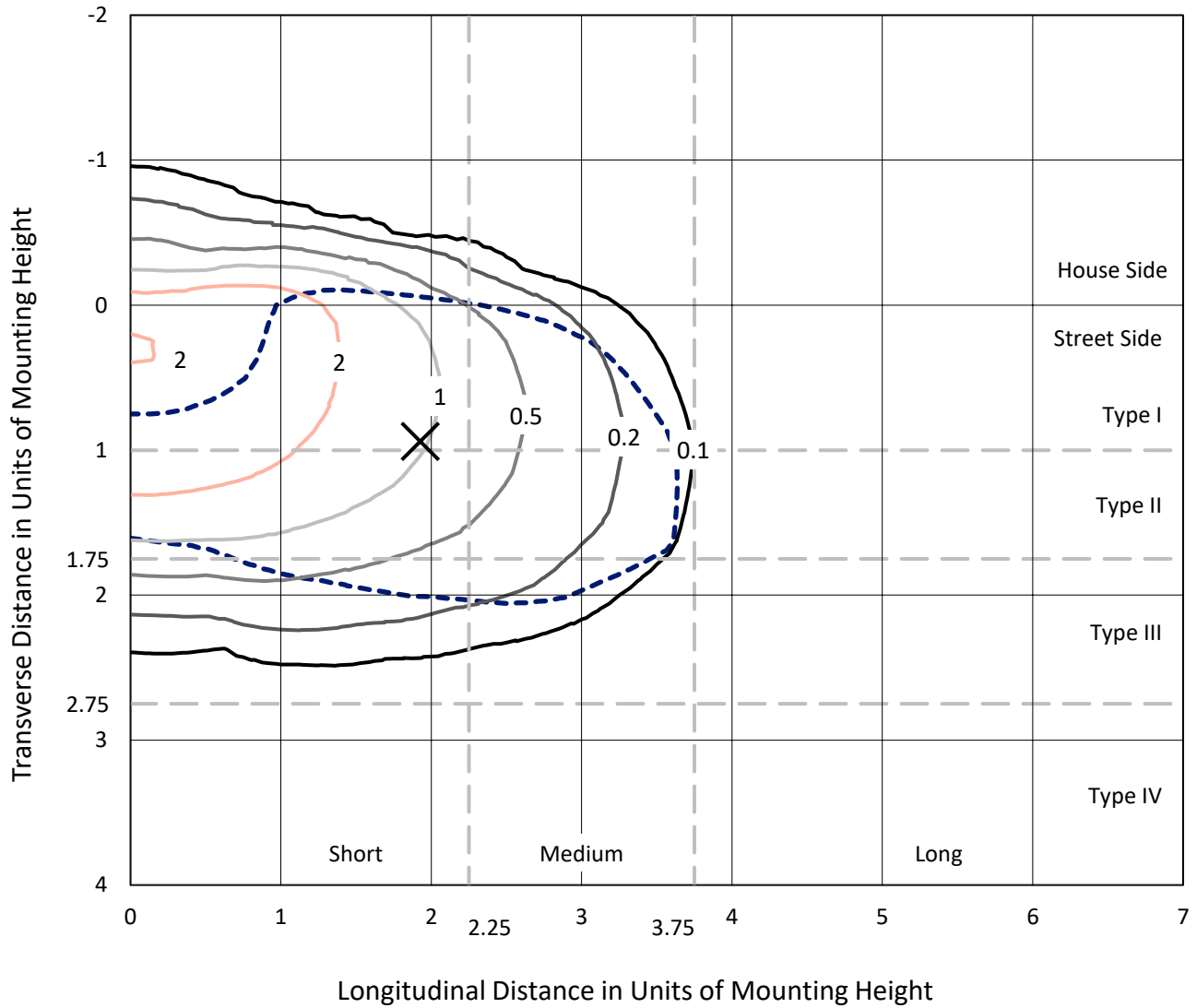
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

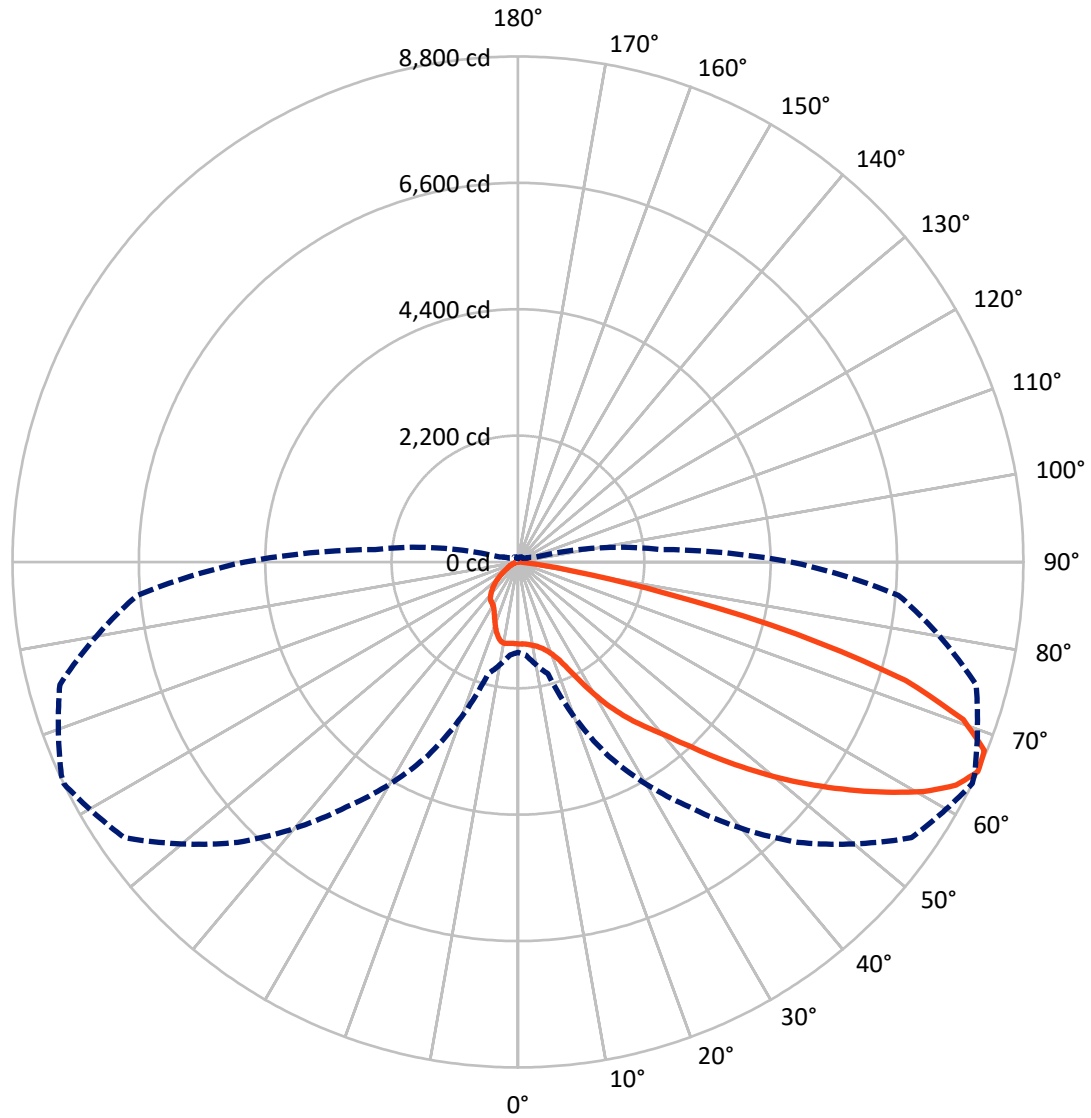
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1639.7	0.0	1639.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10621.3	0.0	10621.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	12261.0	0.0	12261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.1
10°-20°	356.9	2.9
20°-30°	676.2	5.5
30°-40°	1368.3	11.2
40°-50°	2331.0	19.0
50°-60°	3169.9	25.9
60°-70°	2976.7	24.3
70°-80°	1192.6	9.7
80°-90°	57.8	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°	12261.0	100.0
0°-180°	12261.0	100.0

Coefficient of Utilization



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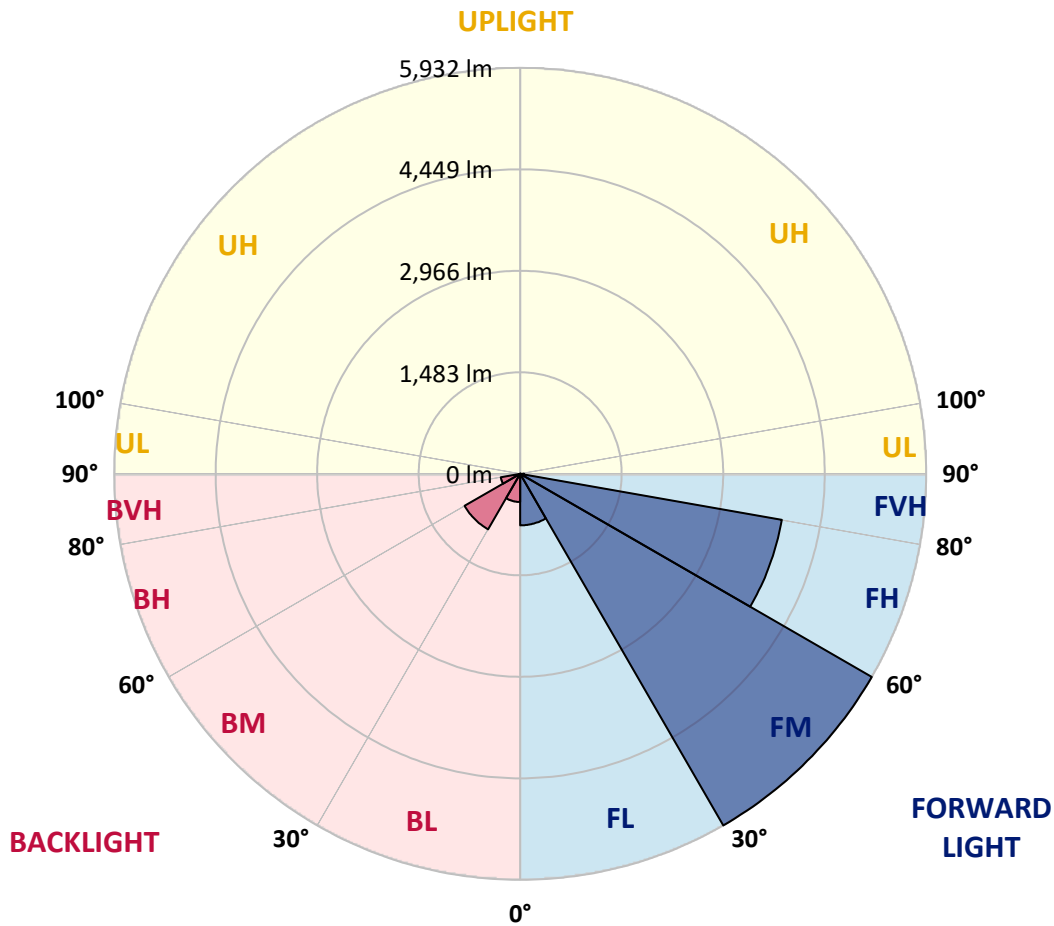
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.0	6.1			
FM (30°-60°)	5931.9	48.4			
FH (60°-80°)	3881.6	31.7			G2/5000
FVH (80°-90°)	55.0	0.4			G1/100
BL (0°-30°)	411.7	3.4	B1/500		
BM (30°-60°)	937.4	7.6	B1/1000		
BH (60°-80°)	287.8	2.3	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1
2.5°	1421.1	1431.0	1428.5	1426.1	1425.3	1426.9	1427.7	1426.9	1426.9	1426.9
5°	1394.0	1402.2	1402.2	1408.0	1416.2	1426.1	1433.5	1435.1	1436.8	1439.2
7.5°	1342.2	1348.8	1353.8	1372.7	1393.2	1419.5	1441.7	1453.2	1454.8	1463.9
10°	1306.9	1315.1	1323.3	1343.1	1372.7	1412.1	1449.9	1477.9	1482.0	1503.3
12.5°	1305.3	1313.5	1324.2	1345.5	1380.1	1422.0	1468.0	1508.3	1515.7	1546.9
15°	1322.5	1332.4	1342.2	1368.5	1405.5	1456.5	1505.8	1555.9	1563.3	1607.7
17.5°	1357.9	1371.0	1378.4	1404.7	1444.2	1500.9	1565.8	1623.3	1629.9	1681.7
20°	1427.7	1443.3	1445.8	1467.2	1505.8	1566.6	1643.9	1715.4	1723.6	1782.8
22.5°	1572.4	1594.6	1574.9	1585.5	1620.1	1680.9	1764.7	1855.1	1866.6	1934.0
25°	1827.2	1858.4	1807.5	1789.4	1804.2	1867.5	1972.7	2086.9	2100.1	2154.3
27.5°	2327.8	2287.5	2210.2	2134.6	2090.2	2126.4	2244.7	2386.1	2402.6	2455.2
30°	2877.6	2842.3	2737.9	2570.2	2465.0	2459.3	2568.6	2726.4	2745.3	2795.4
32.5°	3428.3	3394.6	3281.2	3074.9	2892.4	2802.0	2877.6	3052.7	3062.6	3094.6
35°	3970.0	3935.5	3822.1	3610.8	3386.4	3180.9	3166.1	3363.4	3366.7	3400.4
37.5°	4515.0	4486.2	4365.4	4158.2	3937.1	3653.6	3516.3	3657.7	3661.8	3694.7
40°	4903.7	4916.1	4833.1	4672.8	4482.9	4173.0	3909.2	3970.8	3946.2	4001.2
42.5°	5237.5	5262.1	5189.8	5109.2	4999.1	4726.2	4395.8	4385.1	4345.6	4375.2
45°	5526.0	5546.5	5481.6	5462.7	5460.2	5268.7	4927.6	4863.5	4808.4	4802.6
47.5°	5632.0	5671.4	5699.4	5762.7	5886.0	5805.4	5477.5	5378.0	5316.4	5271.2
50°	5672.3	5714.2	5809.5	5993.7	6285.4	6320.0	6024.9	5913.1	5837.5	5755.3
52.5°	5618.0	5692.8	5821.0	6130.9	6554.2	6732.6	6550.1	6452.3	6366.0	6232.0
55°	5298.3	5373.1	5635.3	6129.3	6688.2	7021.9	7046.6	7003.0	6906.0	6694.8
57.5°	4624.3	4735.2	5150.3	5920.5	6685.7	7271.0	7533.2	7564.4	7455.9	7153.4
60°	3690.6	3841.0	4347.3	5457.7	6479.4	7405.8	7959.8	8115.9	8000.9	7605.5
62.5°	2575.2	2749.4	3228.6	4732.8	6007.6	7308.8	8271.3	8559.8	8472.7	8009.9
65°	1570.7	1626.6	2013.0	3724.3	5205.4	6902.7	8367.4	8799.8	8771.0	8257.3
67.5°	1046.3	1093.2	1204.2	2553.8	4040.7	6091.5	8137.3	8757.9	8766.1	8217.0
70°	630.4	670.7	743.0	1485.3	2618.7	4821.6	7424.7	8223.6	8271.3	7678.6
72.5°	259.7	286.9	352.6	673.2	1356.2	3060.1	5912.3	7060.5	7171.5	6456.4
75°	147.1	161.1	207.1	337.8	588.5	1426.1	3581.2	5012.2	5175.8	4450.0
77.5°	97.8	104.4	134.0	218.6	331.2	486.6	1530.5	2611.3	2923.7	2430.5
80°	65.8	71.5	92.1	146.3	215.4	208.8	487.4	967.4	1190.2	835.1
82.5°	44.4	45.2	65.8	96.2	136.4	101.1	143.8	300.8	378.1	241.7
85°	25.5	24.7	48.5	55.9	60.8	41.9	43.6	90.4	118.4	101.9
87.5°	3.3	4.9	18.9	14.8	8.2	9.0	9.0	15.6	23.0	24.7
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°
1426.1	0°	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1
1427.7	2.5°	1427.7	1426.9	1424.4	1422.0	1416.2	1412.9	1414.6	1412.9	1412.1	1412.9
1438.4	5°	1438.4	1435.9	1429.4	1421.1	1409.6	1395.7	1386.6	1373.5	1361.1	1353.8
1467.2	7.5°	1467.2	1464.7	1455.7	1432.7	1395.7	1337.3	1283.9	1237.0	1201.7	1181.1
1513.2	10°	1513.2	1509.1	1495.1	1444.2	1347.2	1219.8	1113.7	1025.8	968.3	941.1
1567.5	12.5°	1567.5	1562.5	1537.9	1433.5	1255.1	1056.2	909.9	812.1	758.7	734.8
1629.9	15°	1631.6	1625.0	1576.5	1382.5	1121.1	875.4	741.4	668.2	633.7	612.4
1709.7	17.5°	1711.3	1699.8	1605.3	1306.1	975.7	737.3	637.8	582.8	552.3	531.8
1814.0	20°	1814.9	1796.0	1628.3	1214.8	841.7	650.2	568.0	521.9	498.9	480.8
1962.0	22.5°	1959.5	1932.4	1656.2	1116.2	747.2	590.2	516.2	482.5	463.6	443.0
2168.3	25°	2138.7	2106.7	1690.7	1025.0	682.2	538.4	478.4	450.4	428.2	404.4
2438.7	27.5°	2389.4	2331.9	1731.8	950.2	626.3	494.0	443.9	412.6	387.1	367.4
2745.3	30°	2668.9	2574.3	1768.0	905.0	575.4	452.9	398.6	367.4	343.6	329.6
3020.7	32.5°	2933.5	2805.3	1791.8	885.2	529.3	406.0	349.3	315.6	297.5	293.4
3290.3	35°	3183.4	3014.1	1789.4	866.3	488.2	359.2	300.8	266.3	252.3	254.8
3580.4	37.5°	3471.1	3236.8	1772.1	836.7	454.5	316.5	258.9	228.5	216.2	217.0
3933.0	40°	3805.6	3494.1	1761.4	780.9	417.6	277.0	224.4	199.7	190.7	187.4
4304.5	42.5°	4162.4	3743.2	1763.1	717.6	371.5	241.7	200.6	180.0	171.8	169.3
4718.0	45°	4520.7	3980.7	1765.5	651.8	323.0	214.5	183.3	166.0	161.1	157.8
5137.2	47.5°	4857.7	4182.9	1719.5	581.1	275.4	194.0	169.3	157.8	153.7	149.6
5558.0	50°	5171.7	4317.7	1608.6	498.9	237.5	177.5	158.6	150.4	146.3	142.2
5939.4	52.5°	5415.8	4339.1	1425.3	414.3	211.2	165.2	152.1	144.7	139.7	135.6
6247.6	55°	5524.3	4205.1	1164.7	335.4	190.7	154.5	145.5	138.1	132.3	128.2
6490.1	57.5°	5496.4	3923.2	908.3	269.6	171.0	143.8	137.3	132.3	125.8	119.2
6686.6	60°	5359.1	3545.9	684.7	224.4	152.9	132.3	128.2	124.1	115.1	105.2
6762.2	62.5°	5121.6	3071.6	488.2	185.8	133.2	119.2	117.5	114.3	101.1	83.0
6650.4	65°	4758.3	2495.4	328.8	154.5	114.3	104.4	105.2	99.5	82.2	61.6
6241.1	67.5°	4227.3	1824.7	210.4	126.6	95.3	87.1	87.9	84.7	69.9	52.6
5465.1	70°	3550.8	1208.3	137.3	96.2	76.4	67.4	72.3	73.2	59.2	42.7
4194.4	72.5°	2603.1	713.5	96.2	71.5	55.9	46.9	59.2	60.8	47.7	32.1
2523.4	75°	1483.6	338.6	72.3	51.8	34.5	32.9	46.0	46.0	32.9	21.4
1092.4	77.5°	623.0	141.4	51.0	33.7	19.7	18.9	31.2	28.8	16.4	9.9
266.3	80°	180.0	63.3	27.1	16.4	8.2	7.4	12.3	9.0	4.1	1.6
101.1	82.5°	70.7	27.9	10.7	6.6	3.3	3.3	1.6	0.0	0.0	0.0
57.5	85°	41.9	11.5	4.9	2.5	0.8	0.0	0.0	0.0	0.0	0.0
12.3	87.5°	10.7	2.5	1.6	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>
1426.1
1416.2
1355.4
1182.0
938.7
732.4
613.2
530.2
477.6
439.7
401.9
363.3
327.1
295.9
254.8
220.3
186.6
168.5
157.8
149.6
142.2
134.8
127.4
118.4
103.6
81.4
60.0
50.1
41.1
30.4
19.7
9.9
1.6
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