

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: P940058

Luminaire Tested: **GALN-SB2D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2D-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

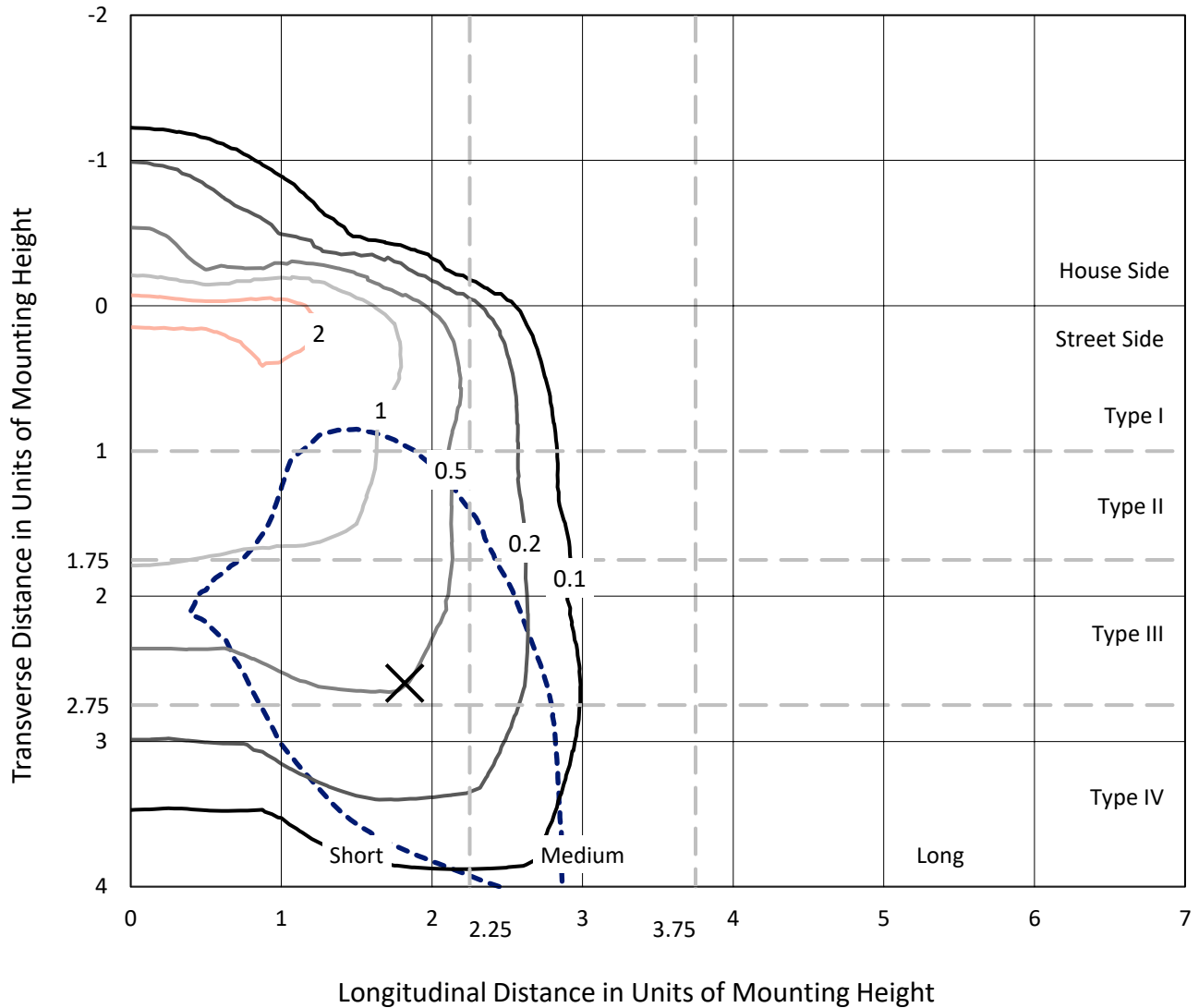
Lumens per Lamp: N/A  
Luminaire Lumens: 11165 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

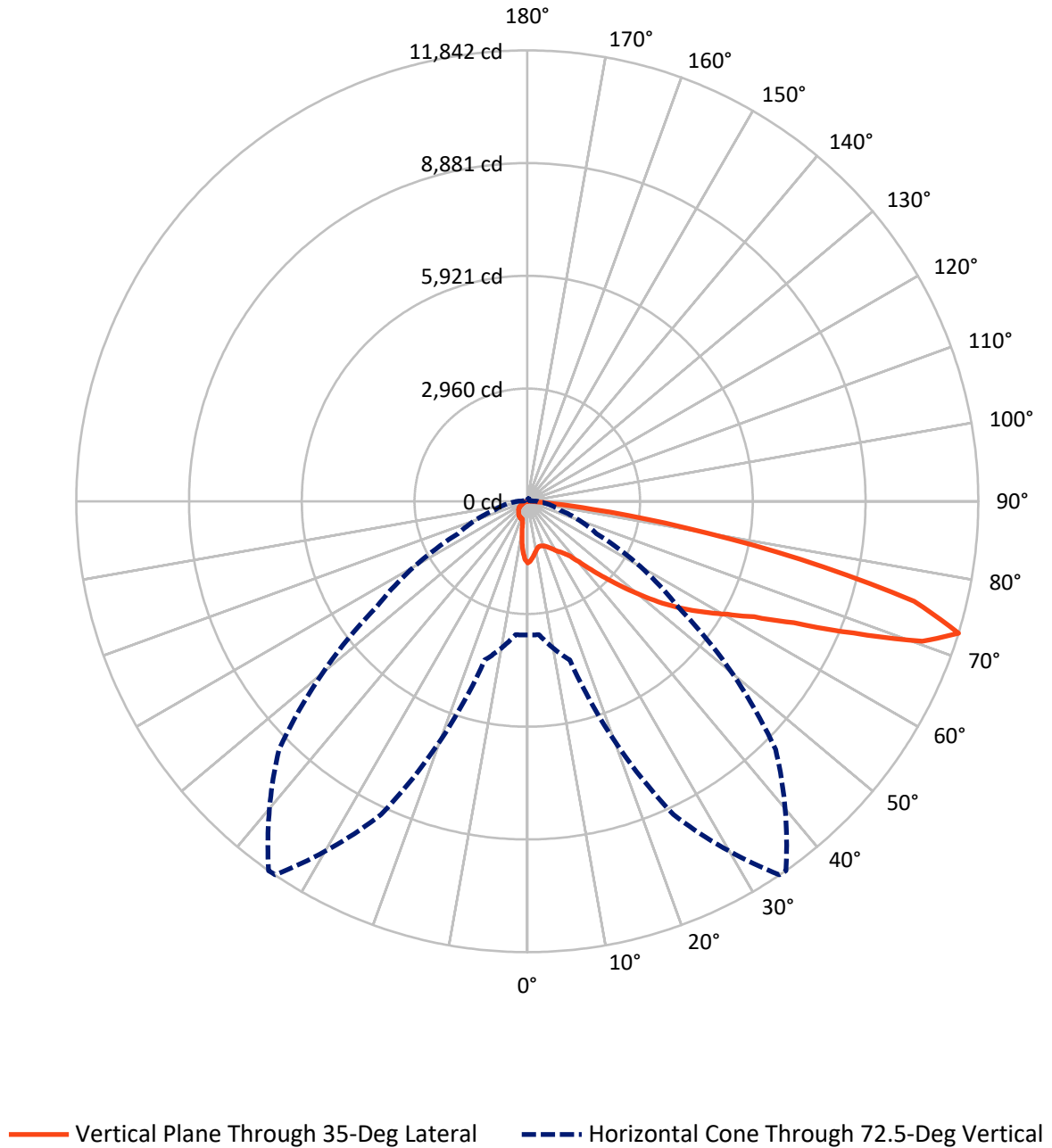
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1256.6	0.0	1256.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	9908.4	0.0	9908.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	11165.0	0.0	11165.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.0	1.2
10°-20°	311.1	2.8
20°-30°	505.3	4.5
30°-40°	843.1	7.6
40°-50°	1595.2	14.3
50°-60°	2534.8	22.7
60°-70°	3135.7	28.1
70°-80°	1949.2	17.5
80°-90°	157.5	1.4
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°	11165.0	100.0
0°-180°	11165.0	100.0

**Coefficient of Utilization**



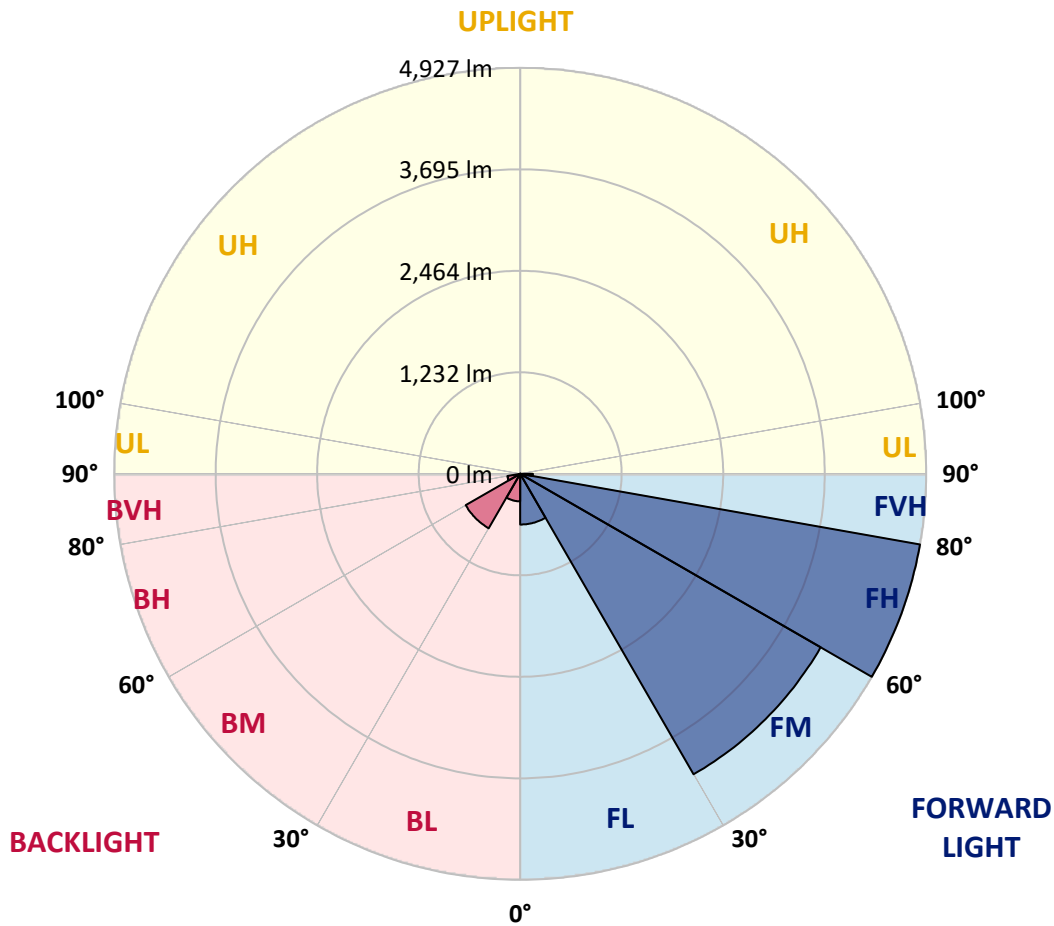
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.5	5.5			
FM (30°-60°)	4210.3	37.7			
FH (60°-80°)	4927.2	44.1			G2/5000
FVH (80°-90°)	155.4	1.4			G2/225
BL (0°-30°)	333.9	3.0	B1/500		
BM (30°-60°)	762.8	6.8	B1/1000		
BH (60°-80°)	157.7	1.4	B1/500		G1/500
BVH (80°-90°)	2.1	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2
2.5°	1546.2	1559.3	1561.7	1565.8	1565.8	1570.7	1578.9	1590.4	1609.2	1619.0
5°	1425.1	1434.9	1447.2	1457.0	1475.8	1478.3	1510.2	1541.3	1584.6	1617.4
7.5°	1303.2	1314.7	1331.0	1354.8	1379.3	1386.7	1434.9	1487.3	1556.0	1617.4
10°	1217.3	1218.1	1232.9	1256.6	1295.9	1304.9	1363.8	1438.2	1524.1	1607.5
12.5°	1169.1	1174.8	1181.3	1199.3	1237.0	1242.7	1305.7	1393.2	1492.2	1601.8
15°	1169.1	1173.1	1177.2	1186.2	1216.5	1221.4	1277.0	1364.6	1475.8	1604.3
17.5°	1181.3	1187.9	1184.6	1195.2	1227.1	1230.4	1279.5	1356.4	1475.0	1619.8
20°	1210.8	1215.7	1209.1	1215.7	1247.6	1254.1	1304.9	1371.9	1488.9	1646.8
22.5°	1257.4	1259.9	1244.3	1249.2	1281.9	1290.1	1349.0	1416.1	1522.5	1690.2
25°	1316.3	1321.2	1297.5	1303.2	1334.3	1344.1	1412.0	1482.4	1575.6	1749.9
27.5°	1384.2	1386.7	1366.2	1365.4	1405.5	1419.4	1488.1	1564.2	1646.8	1825.2
30°	1461.9	1469.3	1449.7	1446.4	1497.1	1508.6	1576.5	1664.8	1751.5	1938.1
32.5°	1523.3	1529.0	1517.6	1525.7	1577.3	1586.3	1683.6	1807.2	1916.0	2098.4
35°	1611.6	1614.9	1588.7	1603.5	1662.4	1685.3	1830.1	2006.8	2122.9	2299.7
37.5°	1931.5	1931.5	1820.3	1747.4	1803.9	1824.3	2030.5	2257.9	2378.2	2569.6
40°	2374.1	2366.7	2203.9	2055.0	2047.7	2087.8	2316.0	2574.5	2707.9	2893.6
42.5°	2846.1	2834.7	2613.0	2465.7	2441.2	2455.1	2645.7	2964.8	3100.6	3288.7
45°	3265.0	3261.7	3058.8	2860.9	2816.7	2860.9	3057.2	3421.3	3518.6	3716.6
47.5°	3616.0	3616.0	3467.9	3338.6	3315.7	3341.9	3614.3	3927.7	3918.7	4172.3
50°	4020.1	4016.8	3876.1	3820.5	3844.2	3881.0	4255.7	4461.0	4332.6	4619.8
52.5°	4303.2	4322.8	4274.5	4265.5	4386.6	4450.4	4906.9	4983.0	4703.2	5044.3
55°	4527.3	4550.2	4605.8	4668.8	4902.0	4985.4	5537.7	5477.9	5013.3	5412.5
57.5°	4844.7	4812.0	4897.9	5022.3	5399.4	5500.0	6148.8	5945.1	5262.8	5711.1
60°	5230.1	5235.0	5249.7	5406.8	5896.0	6025.2	6750.9	6386.8	5423.1	5894.3
62.5°	5693.1	5700.5	5730.7	5972.1	6562.7	6684.6	7392.3	6748.4	5496.7	5842.8
65°	5661.2	5692.3	6030.1	6855.6	7576.3	7696.6	8140.8	7002.0	5385.5	5371.6
67.5°	5157.2	5208.0	5773.3	7910.9	9104.5	9238.7	9045.6	7051.9	4905.3	4177.2
70°	4496.2	4514.2	5194.1	8859.9	10874.1	11009.9	9855.5	6503.0	3722.3	2329.9
72.5°	3511.2	3515.3	4313.0	9080.0	11834.5	11841.9	9219.9	4827.6	2001.9	895.0
75°	2508.3	2483.7	2888.7	7363.6	10411.8	10495.3	6912.0	2264.5	764.9	423.0
77.5°	1344.9	1371.9	1634.5	4367.0	7192.7	7335.0	3771.4	652.8	389.4	288.0
80°	415.6	438.5	670.0	1999.4	4074.1	4160.0	1398.1	290.4	271.6	205.3
82.5°	130.9	135.8	312.5	840.2	1691.0	1730.3	405.0	164.4	185.7	135.8
85°	37.6	38.5	139.1	313.3	418.0	426.2	113.7	63.8	106.4	84.3
87.5°	4.1	13.1	52.4	52.4	36.8	36.0	12.3	13.9	30.3	10.6
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°
1618.2	0°	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2
1625.5	2.5°	1621.5	1622.3	1611.6	1593.6	1574.0	1557.6	1537.2	1520.8	1509.4	1506.1
1640.3	5°	1632.9	1627.2	1596.9	1542.1	1476.7	1420.2	1357.2	1307.3	1274.6	1260.7
1655.8	7.5°	1650.1	1633.7	1567.5	1459.5	1334.3	1223.0	1110.1	1022.6	967.0	939.2
1670.5	10°	1664.8	1632.1	1518.4	1340.0	1148.6	980.1	827.9	722.4	663.5	635.7
1687.7	12.5°	1678.7	1631.3	1454.6	1198.5	939.2	733.0	591.5	539.1	522.8	517.0
1715.5	15°	1704.9	1633.7	1374.4	1036.5	730.6	553.8	502.3	501.5	504.8	503.1
1758.1	17.5°	1740.9	1636.2	1283.6	864.7	563.7	488.4	485.9	493.3	498.2	495.8
1811.3	20°	1787.5	1646.0	1187.0	694.6	484.3	472.0	477.8	484.3	488.4	484.3
1882.4	22.5°	1853.0	1663.2	1081.5	557.9	458.9	462.2	467.1	474.5	478.6	472.9
1973.2	25°	1933.1	1690.2	977.6	485.1	446.7	450.8	458.1	466.3	471.2	465.5
2087.8	27.5°	2037.0	1733.5	881.9	468.8	434.4	436.9	447.5	459.8	466.3	458.9
2250.6	30°	2187.6	1804.7	799.3	476.1	427.0	421.3	436.0	453.2	460.6	454.0
2472.3	32.5°	2387.2	1905.3	748.6	487.6	423.8	403.3	417.2	439.3	451.6	447.5
2761.9	35°	2649.0	2058.3	728.9	500.7	421.3	384.5	394.3	418.0	439.3	443.4
3126.7	37.5°	2966.4	2271.0	734.6	506.4	414.0	369.0	373.9	394.3	422.1	435.2
3537.4	40°	3327.2	2518.9	767.4	500.7	405.8	355.9	356.7	372.2	396.8	416.4
3979.2	42.5°	3699.4	2808.5	827.9	479.4	398.4	344.4	342.0	352.6	369.0	382.9
4420.1	45°	4053.6	3106.3	887.6	449.9	389.4	333.0	327.2	331.3	334.6	340.3
4849.6	47.5°	4362.9	3315.7	870.4	423.0	377.1	319.9	310.1	308.4	298.6	297.8
5233.3	50°	4576.4	3361.5	773.1	396.0	359.1	305.1	289.6	279.8	262.6	254.4
5520.5	52.5°	4644.3	3180.7	631.6	369.0	329.7	285.5	263.4	247.9	226.6	219.2
5685.7	55°	4554.3	2826.5	504.8	336.2	288.8	259.3	234.8	214.3	197.2	188.2
5703.7	57.5°	4334.2	2375.7	399.2	297.8	245.4	229.9	205.3	184.9	170.2	161.2
5504.1	60°	3969.4	1886.5	315.8	252.0	209.4	198.0	172.6	159.5	146.4	135.8
4988.7	62.5°	3415.5	1346.6	247.9	199.6	175.1	162.0	147.3	137.4	121.9	107.2
4061.8	65°	2665.3	823.8	191.4	146.4	140.7	134.2	125.2	116.2	97.4	82.6
2649.8	67.5°	1681.2	390.2	136.6	110.4	111.3	108.0	103.9	96.5	82.6	69.5
1187.0	70°	740.4	189.0	90.0	84.3	82.6	82.6	85.9	83.4	70.4	58.1
412.3	72.5°	252.0	101.4	67.1	63.8	59.7	58.9	72.0	69.5	56.4	45.0
205.3	75°	131.7	67.9	49.1	45.8	36.0	43.4	57.3	54.0	40.1	29.5
135.8	77.5°	85.9	48.3	33.5	29.5	20.5	28.6	42.5	37.6	23.7	14.7
89.2	80°	54.0	31.9	19.6	13.9	9.8	15.5	22.9	16.4	9.0	3.3
52.4	82.5°	28.6	16.4	7.4	4.9	4.1	4.9	5.7	4.1	1.6	0.0
27.0	85°	11.5	5.7	2.5	1.6	0.8	0.0	1.6	0.8	0.0	0.0
4.9	87.5°	4.1	0.8	0.0	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>
1618.2
1511.8
1265.6
943.3
636.5
515.4
502.3
494.9
483.5
472.0
464.7
458.9
453.2
447.5
443.4
438.5
423.0
388.6
343.6
297.0
255.2
218.4
188.2
159.5
133.3
104.7
80.2
67.9
55.6
42.5
27.0
13.1
2.5
0.0
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