

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: P940328

Luminaire Tested: **GALN-SB3B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940328  
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-SB3B-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

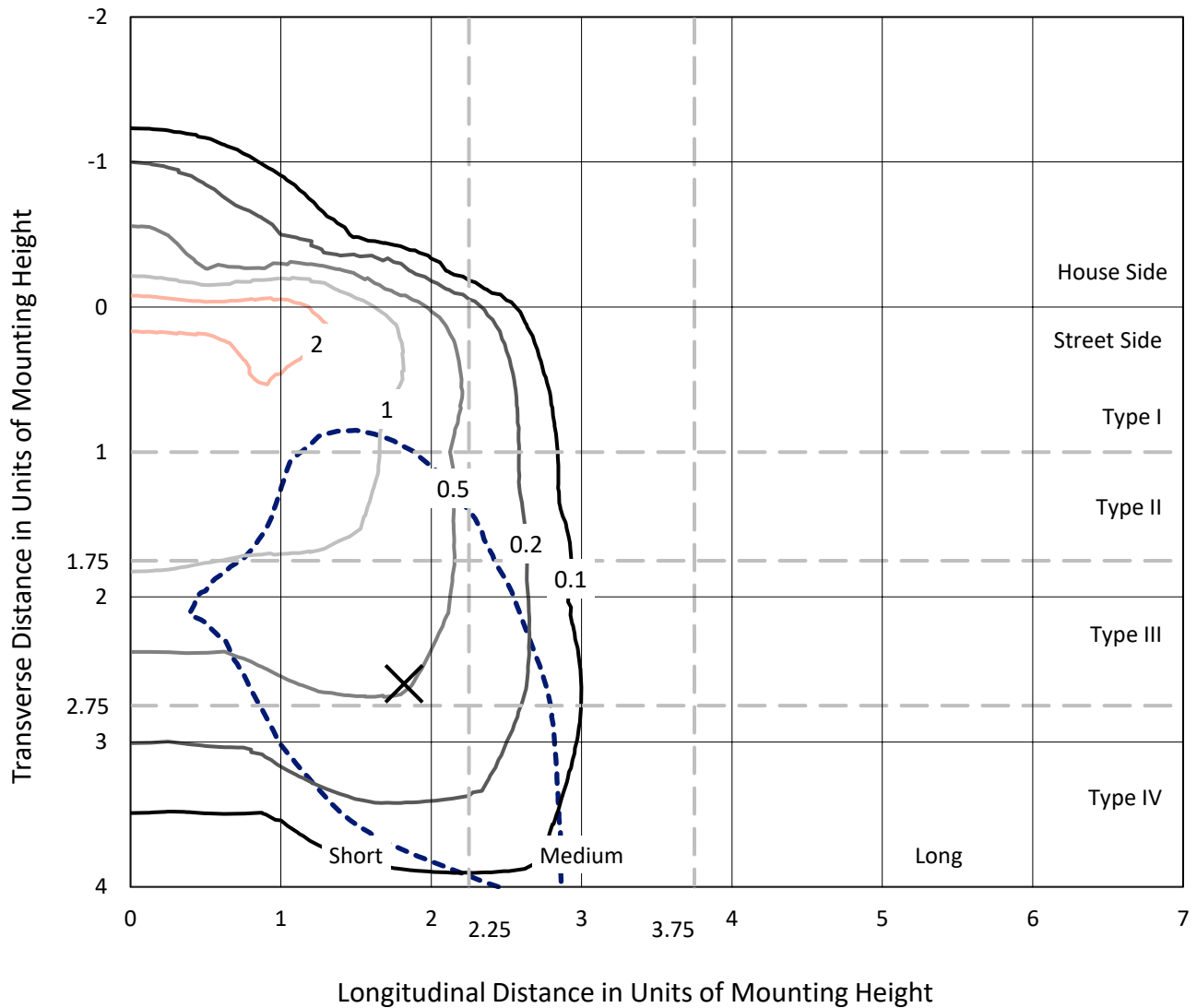
Lumens per Lamp: N/A  
Luminaire Lumens: 11494 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

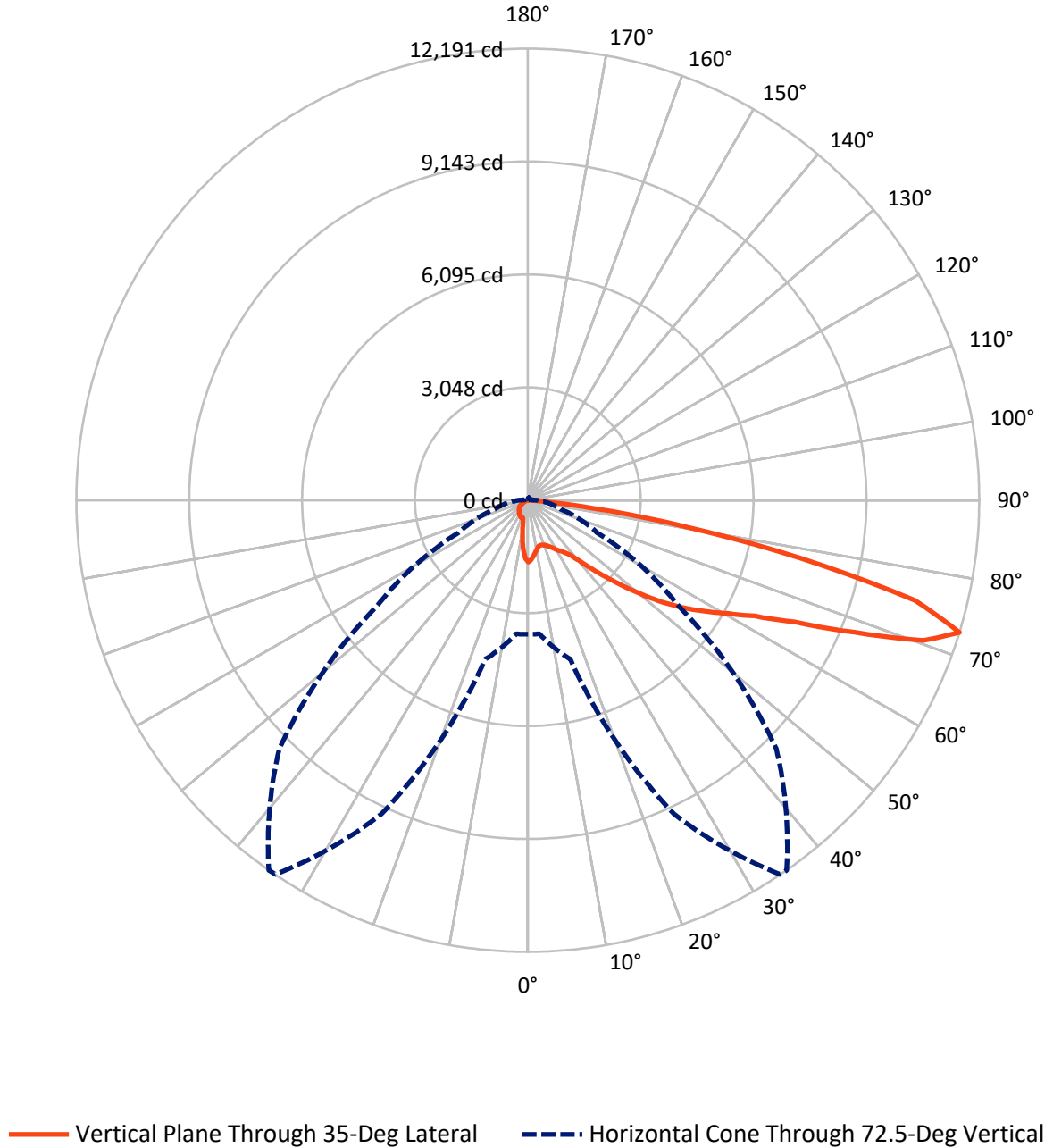
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1293.6	0.0	1293.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	10200.4	0.0	10200.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	11494.0	0.0	11494.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.9	1.2
10°-20°	320.2	2.8
20°-30°	520.2	4.5
30°-40°	868.0	7.6
40°-50°	1642.2	14.3
50°-60°	2609.5	22.7
60°-70°	3228.1	28.1
70°-80°	2006.6	17.5
80°-90°	162.2	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°	11494.0	100.0
0°-180°	11494.0	100.0

**Coefficient of Utilization**



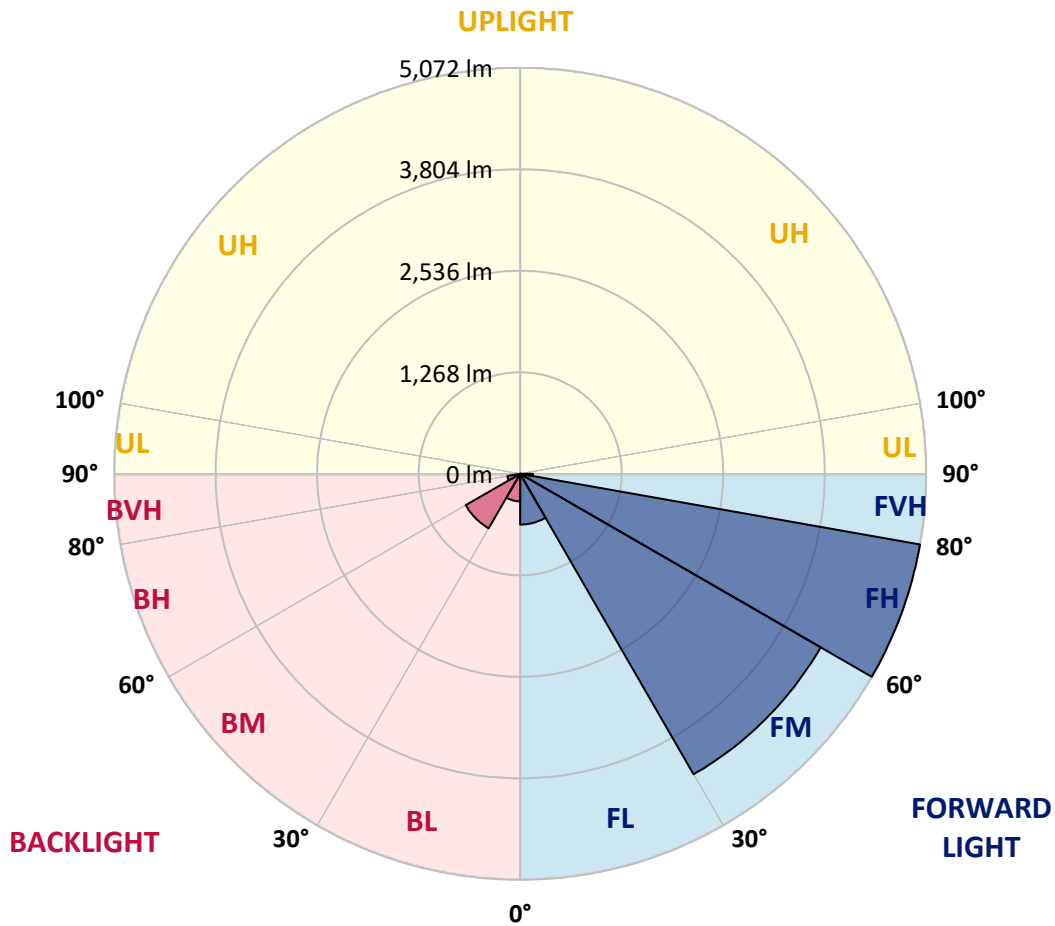
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.6	5.5			
FM (30°-60°)	4334.4	37.7			
FH (60°-80°)	5072.4	44.1			G3/7500
FVH (80°-90°)	160.0	1.4			G2/225
BL (0°-30°)	343.7	3.0	B1/500		
BM (30°-60°)	785.3	6.8	B1/1000		
BH (60°-80°)	162.3	1.4	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1591.8	1605.2	1607.8	1612.0	1612.0	1617.0	1625.4	1637.2	1656.6	1666.7
5°	1467.1	1477.2	1489.8	1500.0	1519.3	1521.9	1554.7	1586.7	1631.3	1665.0
7.5°	1341.6	1353.4	1370.3	1394.7	1419.9	1427.5	1477.2	1531.1	1601.9	1665.0
10°	1253.2	1254.0	1269.2	1293.6	1334.0	1343.3	1403.9	1480.6	1569.0	1654.9
12.5°	1203.5	1209.4	1216.1	1234.7	1273.4	1279.3	1344.1	1434.3	1536.2	1649.0
15°	1203.5	1207.7	1211.9	1221.2	1252.3	1257.4	1314.7	1404.8	1519.3	1651.5
17.5°	1216.1	1222.9	1219.5	1230.5	1263.3	1266.7	1317.2	1396.4	1518.5	1667.6
20°	1246.5	1251.5	1244.8	1251.5	1284.4	1291.1	1343.3	1412.4	1532.8	1695.3
22.5°	1294.5	1297.0	1281.0	1286.0	1319.7	1328.1	1388.8	1457.8	1567.3	1740.0
25°	1355.1	1360.1	1335.7	1341.6	1373.6	1383.7	1453.6	1526.1	1622.1	1801.5
27.5°	1425.0	1427.5	1406.5	1405.6	1446.9	1461.2	1532.0	1610.3	1695.3	1878.9
30°	1505.0	1512.6	1492.4	1489.0	1541.2	1553.0	1622.9	1713.9	1803.1	1995.2
32.5°	1568.2	1574.1	1562.3	1570.7	1623.8	1633.0	1733.2	1860.4	1972.4	2160.2
35°	1659.1	1662.5	1635.5	1650.7	1711.3	1734.9	1884.0	2065.9	2185.5	2367.4
37.5°	1988.4	1988.4	1873.9	1798.9	1857.0	1878.1	2090.3	2324.5	2448.3	2645.3
40°	2444.1	2436.5	2268.9	2115.6	2108.0	2149.3	2384.3	2650.4	2787.7	2978.9
42.5°	2930.0	2918.2	2690.0	2538.4	2513.1	2527.4	2723.7	3052.1	3191.9	3385.6
45°	3361.2	3357.8	3149.0	2945.2	2899.7	2945.2	3147.3	3522.1	3622.3	3826.1
47.5°	3722.5	3722.5	3570.1	3437.0	3413.4	3440.4	3720.8	4043.4	4034.1	4295.2
50°	4138.6	4135.2	3990.3	3933.1	3957.5	3995.4	4381.1	4592.5	4460.3	4755.9
52.5°	4430.0	4450.2	4400.5	4391.2	4515.9	4581.6	5051.5	5129.8	4841.8	5193.0
55°	4660.7	4684.3	4741.6	4806.4	5046.4	5132.3	5700.8	5639.4	5161.0	5572.0
57.5°	4987.5	4953.8	5042.2	5170.2	5558.5	5662.1	6330.0	6120.2	5417.9	5879.4
60°	5384.2	5389.2	5404.4	5566.1	6069.7	6202.8	6949.8	6575.0	5582.9	6068.0
62.5°	5860.8	5868.4	5899.6	6148.0	6756.1	6881.6	7610.1	6947.3	5658.7	6015.0
65°	5828.0	5860.0	6207.8	7057.6	7799.6	7923.4	8380.7	7208.4	5544.2	5529.9
67.5°	5309.2	5361.4	5943.4	8144.0	9372.8	9510.9	9312.2	7259.7	5049.8	4300.3
70°	4628.7	4647.2	5347.1	9121.0	11194.5	11334.3	10145.9	6694.6	3832.0	2398.6
72.5°	3614.7	3618.9	4440.1	9347.5	12183.2	12190.8	9491.6	4969.8	2060.9	921.4
75°	2582.2	2556.9	2973.8	7580.6	10718.6	10804.5	7115.7	2331.2	787.5	435.4
77.5°	1384.6	1412.4	1682.7	4495.6	7404.6	7551.1	3882.5	672.1	400.9	296.5
80°	427.8	451.4	689.8	2058.3	4194.1	4282.6	1439.3	299.0	279.6	211.4
82.5°	134.8	139.8	321.7	864.9	1740.8	1781.2	416.9	169.3	191.2	139.8
85°	38.7	39.6	143.2	322.6	430.4	438.8	117.1	65.7	109.5	86.7
87.5°	4.2	13.5	53.9	53.9	37.9	37.1	12.6	14.3	31.2	10.9
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°
1665.9	0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
1673.4	2.5°	1669.2	1670.1	1659.1	1640.6	1620.4	1603.5	1582.5	1565.6	1553.9	1550.5
1688.6	5°	1681.0	1675.1	1644.0	1587.5	1520.2	1462.1	1397.2	1345.8	1312.1	1297.8
1704.6	7.5°	1698.7	1681.9	1613.6	1502.5	1373.6	1259.1	1142.9	1052.7	995.5	966.8
1719.8	10°	1713.9	1680.2	1563.1	1379.5	1182.4	1009.0	852.3	743.7	683.0	654.4
1737.5	12.5°	1728.2	1679.3	1497.4	1233.8	966.8	754.6	608.9	555.0	538.2	532.3
1766.1	15°	1755.1	1681.9	1414.9	1067.1	752.1	570.2	517.1	516.3	519.6	518.0
1809.9	17.5°	1792.2	1684.4	1321.4	890.2	580.3	502.8	500.3	507.8	512.9	510.4
1864.6	20°	1840.2	1694.5	1222.0	715.0	498.6	485.9	491.8	498.6	502.8	498.6
1937.9	22.5°	1907.6	1712.2	1113.4	574.4	472.5	475.8	480.9	488.5	492.7	486.8
2031.4	25°	1990.1	1740.0	1006.4	499.4	459.8	464.1	471.6	480.1	485.1	479.2
2149.3	27.5°	2097.1	1784.6	907.9	482.6	447.2	449.7	460.7	473.3	480.1	472.5
2316.9	30°	2252.0	1857.9	822.8	490.2	439.6	433.7	448.9	466.6	474.2	467.4
2545.1	32.5°	2457.5	1961.5	770.6	501.9	436.3	415.2	429.5	452.3	464.9	460.7
2843.3	35°	2727.0	2119.0	750.4	515.4	433.7	395.8	405.9	430.4	452.3	456.5
3218.9	37.5°	3053.8	2337.9	756.3	521.3	426.2	379.8	384.9	405.9	434.6	448.0
3641.7	40°	3425.2	2593.1	790.0	515.4	417.7	366.4	367.2	383.2	408.5	428.7
4096.4	42.5°	3808.4	2891.3	852.3	493.5	410.2	354.6	352.0	363.0	379.8	394.1
4550.4	45°	4173.1	3197.8	913.8	463.2	400.9	342.8	336.9	341.1	344.5	350.4
4992.5	47.5°	4491.4	3413.4	896.1	435.4	388.3	329.3	319.2	317.5	307.4	306.6
5387.5	50°	4711.3	3460.6	795.9	407.6	369.7	314.1	298.1	288.0	270.3	261.9
5683.1	52.5°	4781.2	3274.5	650.2	379.8	339.4	293.9	271.2	255.2	233.3	225.7
5853.3	55°	4688.5	2909.8	519.6	346.1	297.3	267.0	241.7	220.7	203.0	193.7
5871.8	57.5°	4462.0	2445.7	411.0	306.6	252.7	236.7	211.4	190.3	175.2	165.9
5666.3	60°	4086.3	1942.1	325.1	259.4	215.6	203.8	177.7	164.2	150.8	139.8
5135.7	62.5°	3516.2	1386.3	255.2	205.5	180.2	166.8	151.6	141.5	125.5	110.3
4181.5	65°	2743.9	848.1	197.1	150.8	144.9	138.1	128.9	119.6	100.2	85.1
2727.9	67.5°	1730.7	401.7	140.6	113.7	114.5	111.2	107.0	99.4	85.1	71.6
1222.0	70°	762.2	194.5	92.6	86.7	85.1	85.1	88.4	85.9	72.4	59.8
424.5	72.5°	259.4	104.4	69.1	65.7	61.5	60.6	74.1	71.6	58.1	46.3
211.4	75°	135.6	69.9	50.5	47.2	37.1	44.6	59.0	55.6	41.3	30.3
139.8	77.5°	88.4	49.7	34.5	30.3	21.1	29.5	43.8	38.7	24.4	15.2
91.8	80°	55.6	32.8	20.2	14.3	10.1	16.0	23.6	16.8	9.3	3.4
53.9	82.5°	29.5	16.8	7.6	5.1	4.2	5.1	5.9	4.2	1.7	0.0
27.8	85°	11.8	5.9	2.5	1.7	0.8	0.0	1.7	0.8	0.0	0.0
5.1	87.5°	4.2	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>
1665.9
1556.4
1302.9
971.1
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509.5
497.7
485.9
478.4
472.5
466.6
460.7
456.5
451.4
435.4
400.0
353.7
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262.8
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