

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: P939818

Luminaire Tested: **GALN-SB2C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939818  
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-SB2C-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

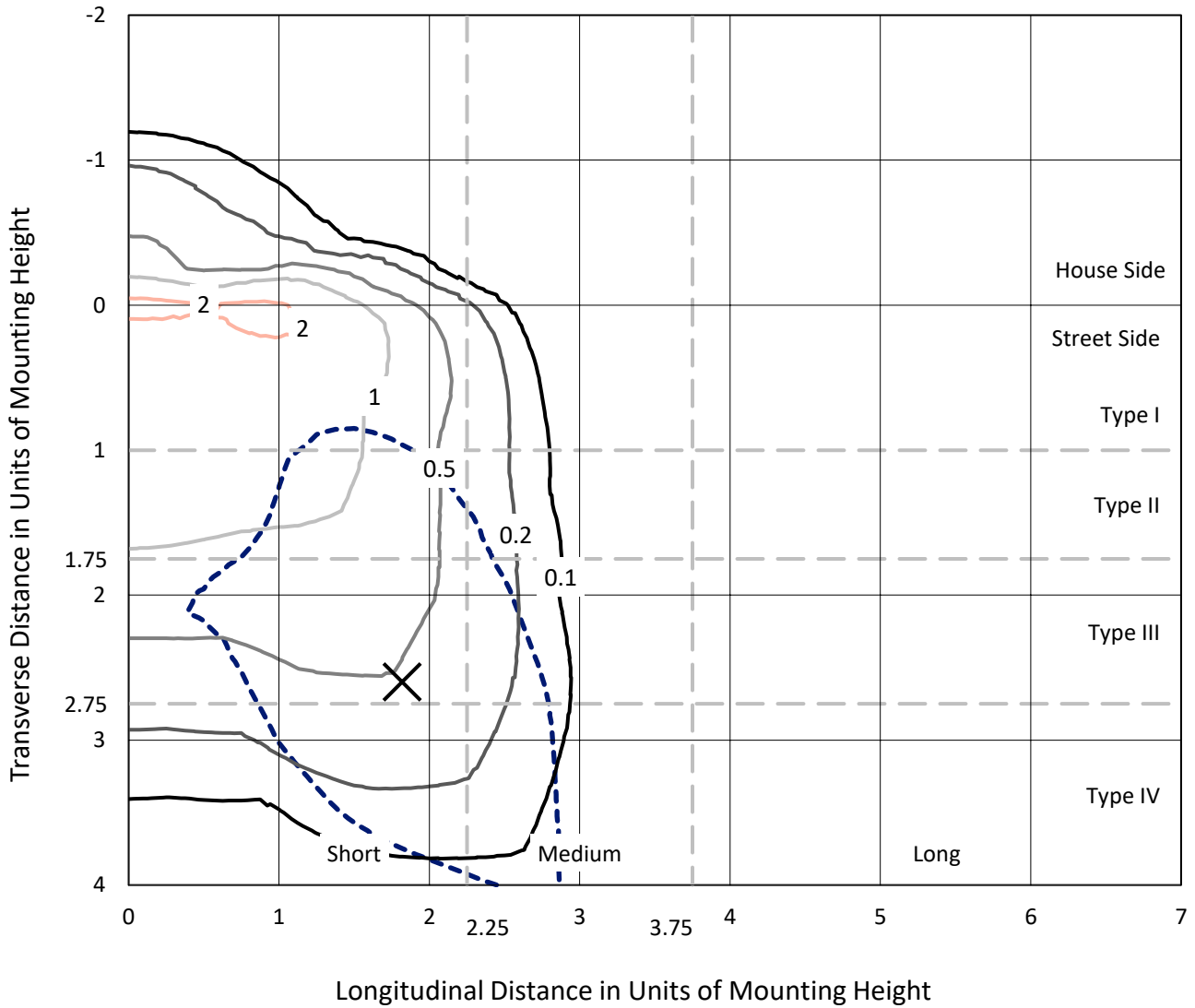
Lumens per Lamp: N/A  
Luminaire Lumens: 10189 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P939818  
 CATALOG NUMBER: GALN-SB2C-830-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

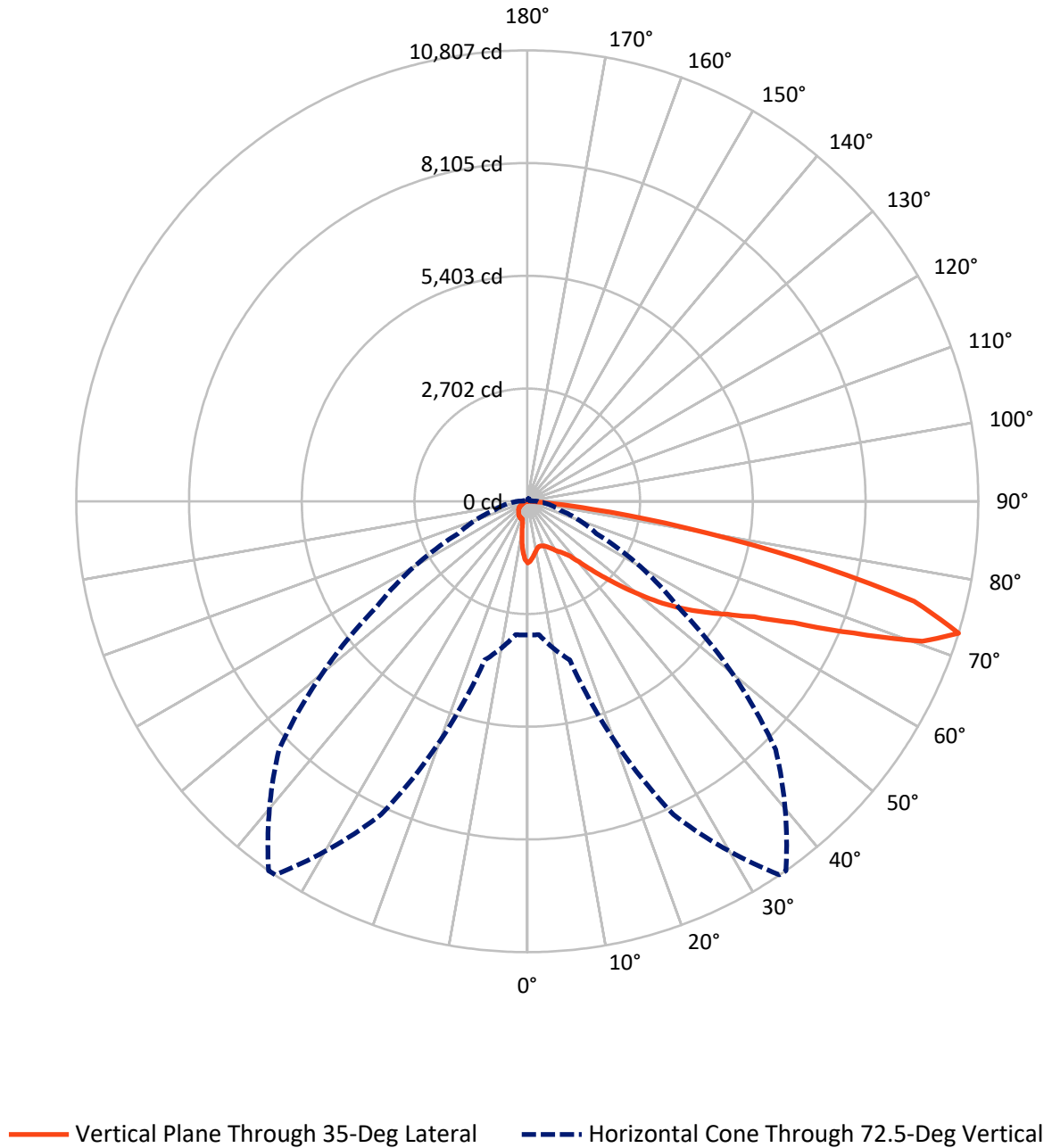
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P939818  
CATALOG NUMBER: GALN-SB2C-830-U-T4FT-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P939818  
 CATALOG NUMBER: GALN-SB2C-830-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1146.7	0.0	1146.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	9042.3	0.0	9042.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	10189.0	0.0	10189.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.3	1.2
10°-20°	283.9	2.8
20°-30°	461.2	4.5
30°-40°	769.4	7.6
40°-50°	1455.8	14.3
50°-60°	2313.2	22.7
60°-70°	2861.6	28.1
70°-80°	1778.8	17.5
80°-90°	143.8	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°	10189.0	100.0
0°-180°	10189.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939818

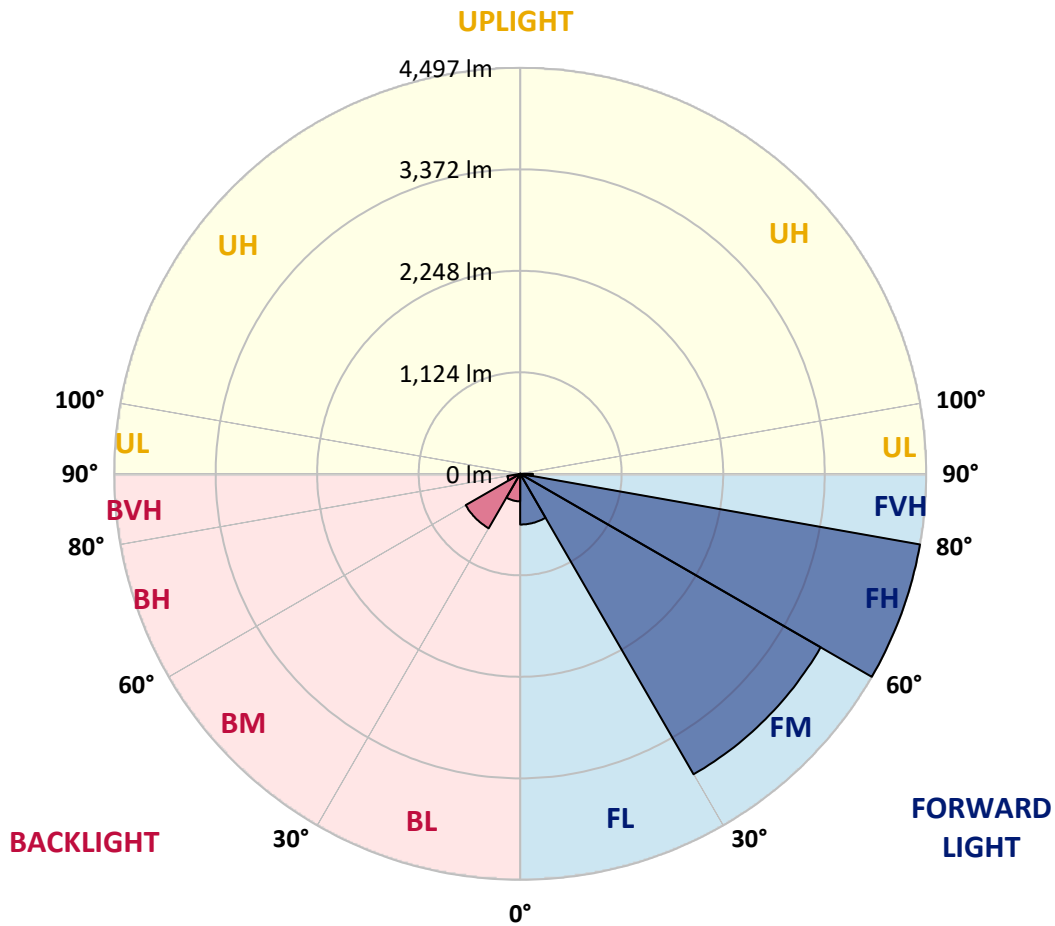
CATALOG NUMBER: GALN-SB2C-830-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.7	5.5			
FM (30°-60°)	3842.3	37.7			
FH (60°-80°)	4496.5	44.1			G2/5000
FVH (80°-90°)	141.8	1.4			G2/225
BL (0°-30°)	304.7	3.0	B1/500		
BM (30°-60°)	696.2	6.8	B1/1000		
BH (60°-80°)	143.9	1.4	B1/500		G1/500
BVH (80°-90°)	2.0	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 IV Short



REPORT NUMBER: P939818  
 CATALOG NUMBER: GALN-SB2C-830-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7
2.5°	1411.0	1423.0	1425.2	1428.9	1428.9	1433.4	1440.9	1451.3	1468.5	1477.5
5°	1300.5	1309.5	1320.7	1329.7	1346.8	1349.1	1378.2	1406.5	1446.1	1476.0
7.5°	1189.3	1199.7	1214.7	1236.3	1258.7	1265.4	1309.5	1357.3	1420.0	1476.0
10°	1110.9	1111.7	1125.1	1146.7	1182.6	1190.8	1244.5	1312.5	1390.9	1467.0
12.5°	1066.9	1072.1	1078.1	1094.5	1128.8	1134.0	1191.5	1271.4	1361.8	1461.8
15°	1066.9	1070.6	1074.3	1082.5	1110.2	1114.6	1165.4	1245.3	1346.8	1464.0
17.5°	1078.1	1084.0	1081.0	1090.7	1119.9	1122.9	1167.6	1237.8	1346.1	1478.2
20°	1104.9	1109.4	1103.4	1109.4	1138.5	1144.5	1190.8	1252.0	1358.8	1502.9
22.5°	1147.5	1149.7	1135.5	1140.0	1169.9	1177.4	1231.1	1292.3	1389.4	1542.4
25°	1201.2	1205.7	1184.1	1189.3	1217.7	1226.6	1288.6	1352.8	1437.9	1596.9
27.5°	1263.2	1265.4	1246.8	1246.0	1282.6	1295.3	1358.0	1427.5	1502.9	1665.6
30°	1334.1	1340.9	1322.9	1319.9	1366.2	1376.7	1438.7	1519.3	1598.4	1768.6
32.5°	1390.1	1395.4	1384.9	1392.4	1439.4	1447.6	1536.5	1649.2	1748.5	1915.0
35°	1470.8	1473.7	1449.9	1463.3	1517.0	1537.9	1670.1	1831.4	1937.4	2098.6
37.5°	1762.7	1762.7	1661.1	1594.7	1646.2	1664.9	1853.0	2060.6	2170.3	2345.0
40°	2166.6	2159.8	2011.3	1875.4	1868.7	1905.3	2113.6	2349.5	2471.2	2640.6
42.5°	2597.3	2586.9	2384.6	2250.2	2227.8	2240.5	2414.4	2705.6	2829.5	3001.2
45°	2979.6	2976.6	2791.4	2610.8	2570.5	2610.8	2790.0	3122.2	3211.0	3391.7
47.5°	3299.9	3299.9	3164.7	3046.8	3025.9	3049.8	3298.4	3584.3	3576.1	3807.5
50°	3668.7	3665.7	3537.3	3486.5	3508.2	3541.8	3883.7	4071.1	3953.9	4215.9
52.5°	3927.0	3944.9	3900.9	3892.6	4003.1	4061.4	4478.0	4547.4	4292.1	4603.4
55°	4131.6	4152.5	4203.2	4260.7	4473.5	4549.6	5053.6	4999.1	4575.0	4939.3
57.5°	4421.2	4391.4	4469.8	4583.2	4927.4	5019.2	5611.3	5425.4	4802.7	5211.8
60°	4772.9	4777.3	4790.8	4934.1	5380.6	5498.5	6160.7	5828.5	4949.1	5379.1
62.5°	5195.4	5202.1	5229.8	5450.0	5989.0	6100.3	6746.1	6158.5	5016.2	5332.0
65°	5166.3	5194.7	5503.0	6256.3	6914.0	7023.8	7429.2	6389.9	4914.7	4902.0
67.5°	4706.4	4752.7	5268.6	7219.4	8308.6	8431.1	8254.9	6435.5	4476.5	3812.0
70°	4103.2	4119.6	4740.0	8085.4	9923.5	10047.4	8994.0	5934.5	3396.9	2126.2
72.5°	3204.3	3208.0	3935.9	8286.2	10800.0	10806.7	8413.9	4405.5	1826.9	816.8
75°	2289.0	2266.6	2636.2	6719.9	9501.7	9577.8	6307.8	2066.5	698.0	386.0
77.5°	1227.4	1252.0	1491.7	3985.2	6563.9	6693.8	3441.7	595.8	355.4	262.8
80°	379.3	400.2	611.4	1824.6	3717.9	3796.3	1275.9	265.0	247.9	187.4
82.5°	119.5	123.9	285.2	766.7	1543.2	1579.0	369.6	150.1	169.5	123.9
85°	34.3	35.1	126.9	285.9	381.5	389.0	103.8	58.2	97.1	76.9
87.5°	3.7	11.9	47.8	47.8	33.6	32.8	11.2	12.7	27.6	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939818  
 CATALOG NUMBER: GALN-SB2C-830-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1476.7	0°	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7	1476.7
1483.4	2.5°	1479.7	1480.5	1470.8	1454.3	1436.4	1421.5	1402.8	1387.9	1377.4	1374.4
1496.9	5°	1490.2	1484.9	1457.3	1407.3	1347.6	1296.1	1238.6	1193.0	1163.2	1150.5
1511.1	7.5°	1505.8	1490.9	1430.4	1331.9	1217.7	1116.1	1013.1	933.2	882.5	857.1
1524.5	10°	1519.3	1489.4	1385.6	1222.9	1048.2	894.4	755.5	659.2	605.5	580.1
1540.2	12.5°	1532.0	1488.7	1327.4	1093.7	857.1	668.9	539.8	492.0	477.1	471.8
1565.6	15°	1555.9	1490.9	1254.2	945.9	666.7	505.4	458.4	457.7	460.6	459.1
1604.4	17.5°	1588.7	1493.2	1171.4	789.1	514.4	445.7	443.5	450.2	454.7	452.4
1652.9	20°	1631.3	1502.1	1083.3	633.8	442.0	430.8	436.0	442.0	445.7	442.0
1717.9	22.5°	1691.0	1517.8	987.0	509.2	418.8	421.8	426.3	433.0	436.7	431.5
1800.7	25°	1764.2	1542.4	892.2	442.7	407.6	411.4	418.1	425.5	430.0	424.8
1905.3	27.5°	1859.0	1582.0	804.8	427.8	396.4	398.7	408.4	419.6	425.5	418.8
2053.8	30°	1996.3	1646.9	729.4	434.5	389.7	384.5	397.9	413.6	420.3	414.3
2256.2	32.5°	2178.5	1738.8	683.1	445.0	386.7	368.1	380.8	400.9	412.1	408.4
2520.4	35°	2417.4	1878.4	665.2	456.9	384.5	350.9	359.8	381.5	400.9	404.6
2853.4	37.5°	2707.1	2072.5	670.4	462.1	377.8	336.7	341.2	359.8	385.2	397.2
3228.2	40°	3036.3	2298.7	700.3	456.9	370.3	324.8	325.5	339.7	362.1	380.0
3631.3	42.5°	3376.0	2563.0	755.5	437.5	363.6	314.3	312.1	321.8	336.7	349.4
4033.8	45°	3699.3	2834.7	810.0	410.6	355.4	303.9	298.6	302.4	305.3	310.6
4425.7	47.5°	3981.5	3025.9	794.4	386.0	344.2	291.9	283.0	281.5	272.5	271.8
4775.8	50°	4176.3	3067.7	705.5	361.3	327.7	278.5	264.3	255.3	239.7	232.2
5037.9	52.5°	4238.3	2902.7	576.4	336.7	300.9	260.6	240.4	226.2	206.8	200.1
5188.7	55°	4156.2	2579.4	460.6	306.8	263.5	236.7	214.3	195.6	179.9	171.7
5205.1	57.5°	3955.4	2168.1	364.3	271.8	224.0	209.8	187.4	168.7	155.3	147.1
5023.0	60°	3622.4	1721.6	288.2	229.9	191.1	180.7	157.5	145.6	133.6	123.9
4552.6	62.5°	3117.0	1228.9	226.2	182.2	159.8	147.8	134.4	125.4	111.2	97.8
3706.8	65°	2432.3	751.8	174.7	133.6	128.4	122.4	114.2	106.0	88.8	75.4
2418.2	67.5°	1534.2	356.1	124.7	100.8	101.5	98.5	94.8	88.1	75.4	63.5
1083.3	70°	675.7	172.5	82.1	76.9	75.4	75.4	78.4	76.2	64.2	53.0
376.3	72.5°	229.9	92.6	61.2	58.2	54.5	53.8	65.7	63.5	51.5	41.1
187.4	75°	120.2	62.0	44.8	41.8	32.8	39.6	52.3	49.3	36.6	26.9
123.9	77.5°	78.4	44.0	30.6	26.9	18.7	26.1	38.8	34.3	21.7	13.4
81.4	80°	49.3	29.1	17.9	12.7	9.0	14.2	20.9	14.9	8.2	3.0
47.8	82.5°	26.1	14.9	6.7	4.5	3.7	4.5	5.2	3.7	1.5	0.0
24.6	85°	10.5	5.2	2.2	1.5	0.7	0.0	1.5	0.7	0.0	0.0
4.5	87.5°	3.7	0.7	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>
1476.7
1379.7
1155.0
860.8
580.8
470.3
458.4
451.7
441.2
430.8
424.1
418.8
413.6
408.4
404.6
400.2
386.0
354.6
313.6
271.0
232.9
199.3
171.7
145.6
121.7
95.6
73.2
62.0
50.8
38.8
24.6
11.9
2.2
0.0
0.0
0.0
0.0

F REPORT)