

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: P947516

Luminaire Tested: **GALN-SB2D-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

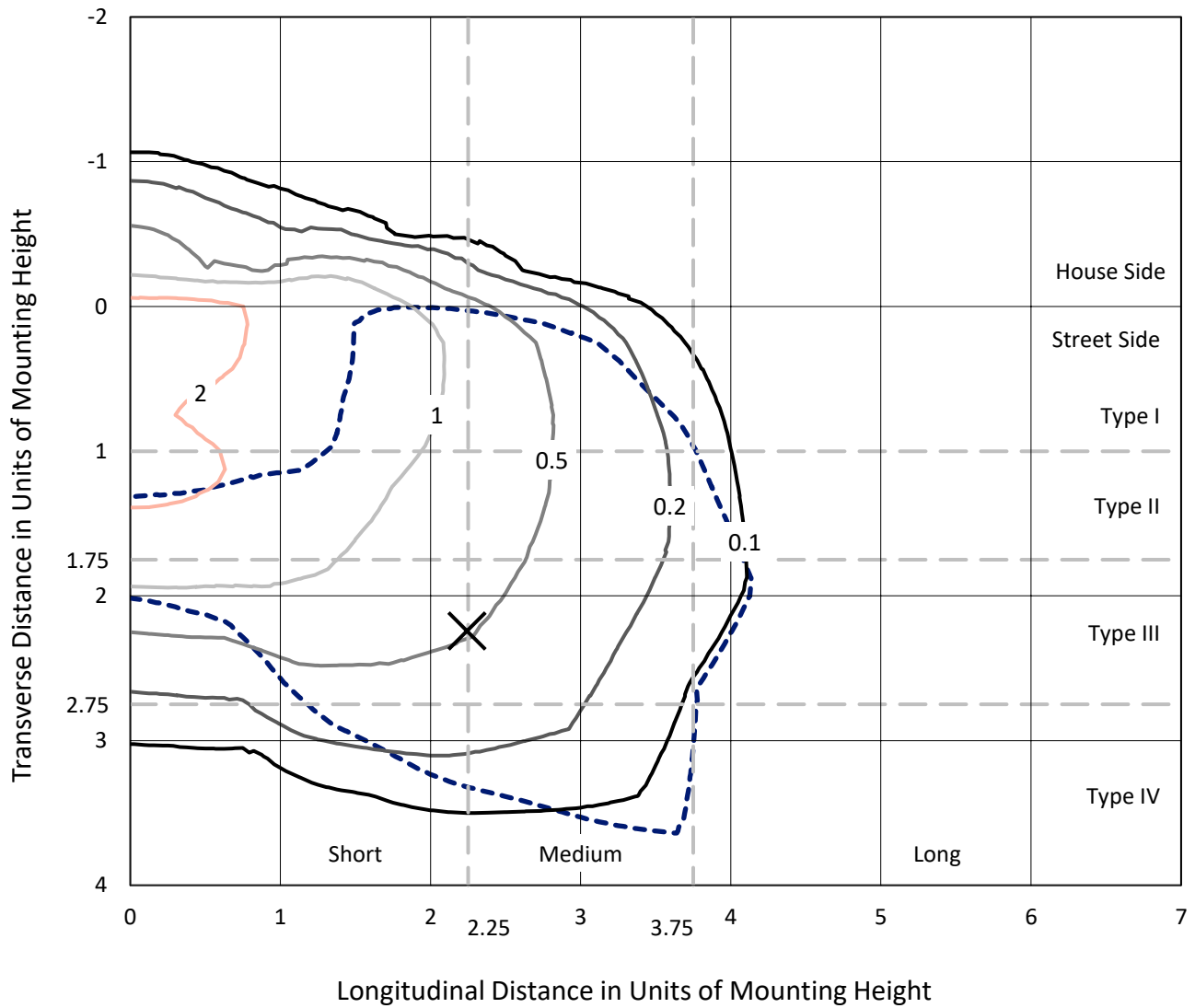
Lumens per Lamp: N/A  
Luminaire Lumens: 14085 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P947516  
 CATALOG NUMBER: GALN-SB2D-830-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

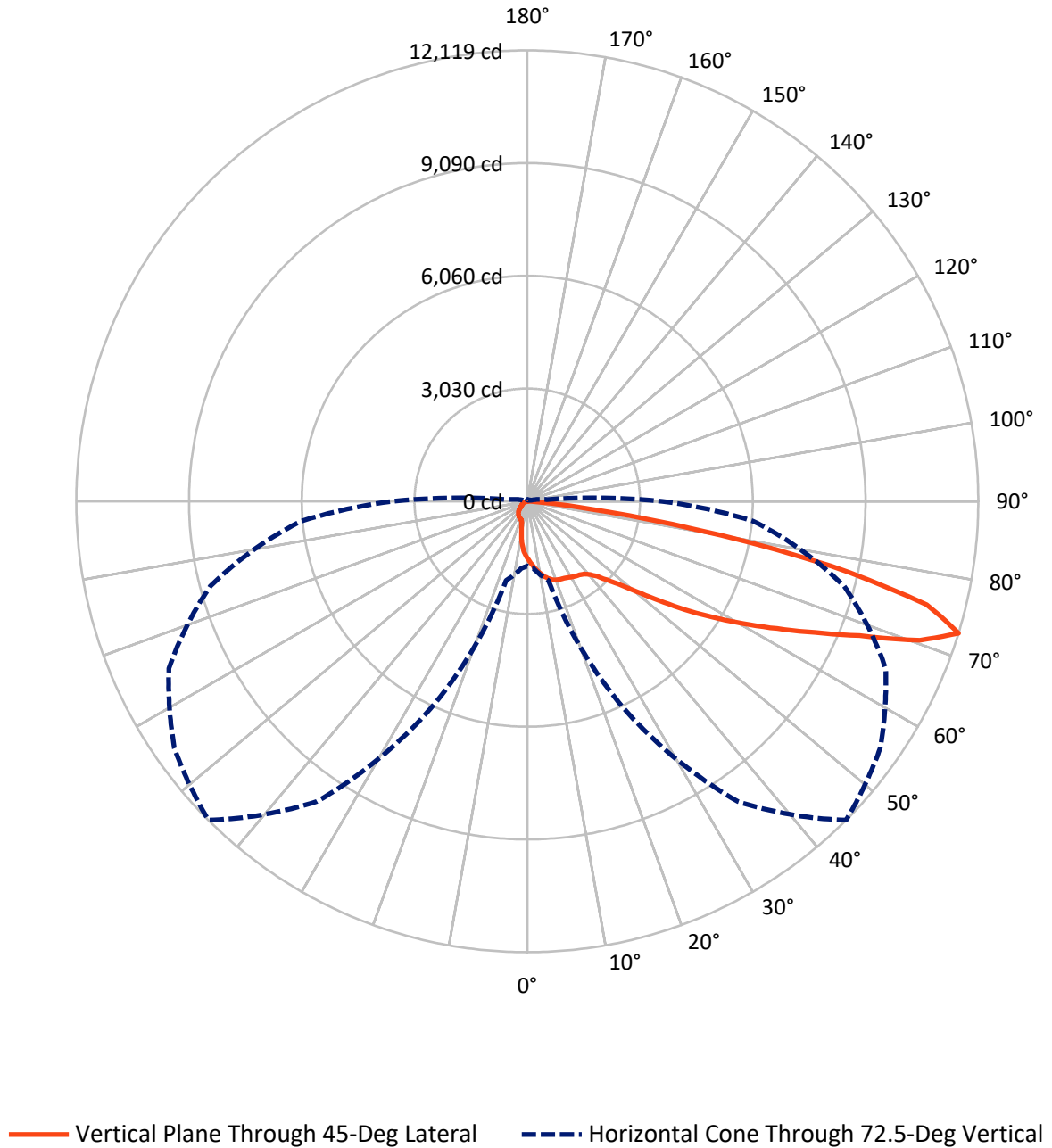
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P947516  
CATALOG NUMBER: GALN-SB2D-830-U-T4W-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P947516  
 CATALOG NUMBER: GALN-SB2D-830-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1479.9	0.0	1479.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	12605.1	0.0	12605.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	14085.0	0.0	14085.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	1.0
10°-20°	424.9	3.0
20°-30°	697.8	5.0
30°-40°	989.6	7.0
40°-50°	1635.7	11.6
50°-60°	2938.3	20.9
60°-70°	4080.0	29.0
70°-80°	2959.5	21.0
80°-90°	214.0	1.5
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°	14085.0	100.0
0°-180°	14085.0	100.0

**Coefficient of Utilization**



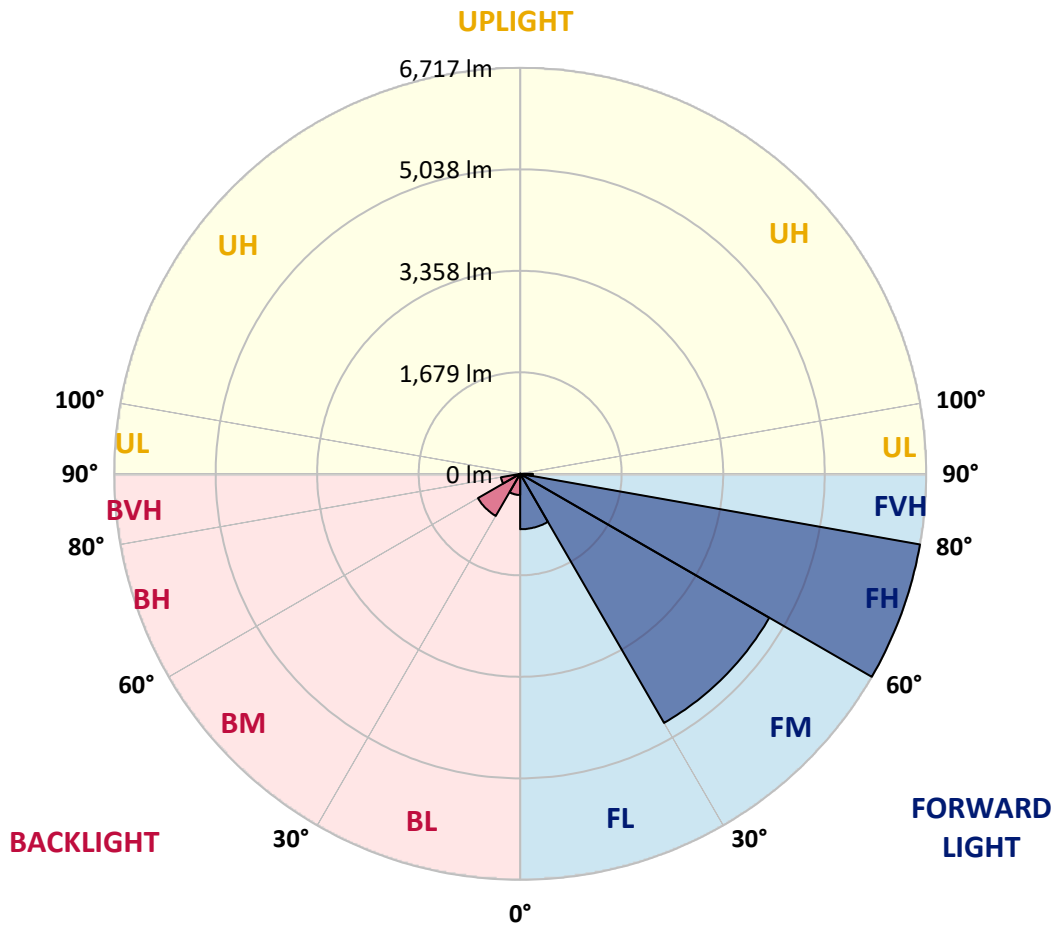
REPORT NUMBER: P947516  
 CATALOG NUMBER: GALN-SB2D-830-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.5	6.5			
FM (30°-60°)	4758.7	33.8			
FH (60°-80°)	6716.7	47.7			G3/7500
FVH (80°-90°)	212.2	1.5			G2/225
BL (0°-30°)	350.5	2.5	B1/500		
BM (30°-60°)	804.9	5.7	B1/1000		
BH (60°-80°)	322.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3**

Type IV Short



REPORT NUMBER: P947516  
 CATALOG NUMBER: GALN-SB2D-830-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1685.3	1688.2	1686.3	1674.8	1655.5	1644.9	1639.2	1620.0	1607.5	1585.3
5°	1840.1	1851.7	1844.9	1821.8	1785.3	1759.4	1751.7	1712.2	1676.7	1635.3
7.5°	2004.5	2010.3	1997.8	1968.0	1918.9	1874.7	1868.0	1813.2	1756.5	1693.0
10°	2146.8	2153.5	2134.3	2091.0	2035.3	1980.5	1970.9	1910.3	1843.0	1765.1
12.5°	2266.0	2272.7	2247.7	2195.8	2134.3	2077.6	2068.0	2004.5	1930.5	1844.0
15°	2356.4	2368.9	2335.2	2279.5	2213.1	2156.4	2151.6	2089.1	2017.0	1920.9
17.5°	2409.3	2421.8	2390.0	2322.7	2266.0	2217.9	2212.2	2160.3	2093.0	2000.7
20°	2417.9	2429.4	2395.8	2337.2	2290.0	2251.6	2248.7	2211.2	2162.2	2073.7
22.5°	2392.0	2406.4	2375.6	2328.5	2295.8	2275.6	2271.8	2250.6	2222.7	2147.8
25°	2365.0	2376.6	2353.5	2312.2	2294.9	2292.9	2295.8	2292.0	2286.2	2222.7
27.5°	2363.1	2375.6	2349.7	2310.2	2300.6	2320.8	2323.7	2342.0	2346.8	2291.0
30°	2379.5	2388.1	2363.1	2321.8	2317.0	2363.1	2364.1	2396.8	2404.5	2348.7
32.5°	2415.0	2424.6	2399.6	2339.1	2332.3	2396.8	2399.6	2442.9	2455.4	2410.2
35°	2498.7	2510.2	2481.4	2387.1	2363.1	2428.5	2437.1	2488.1	2513.1	2475.6
37.5°	2707.3	2673.6	2634.2	2484.2	2433.3	2478.5	2492.9	2552.5	2596.7	2553.5
40°	3225.5	3119.7	2996.7	2649.6	2556.4	2585.2	2596.7	2656.3	2716.9	2674.6
42.5°	4003.3	3878.3	3680.2	3030.3	2741.9	2756.3	2765.0	2816.9	2902.5	2868.8
45°	4696.4	4651.2	4449.3	3680.2	3089.0	3017.8	3028.4	3055.3	3181.3	3168.8
47.5°	5229.0	5203.1	5047.3	4426.3	3675.4	3338.0	3367.8	3380.3	3562.0	3606.2
50°	5638.6	5629.0	5489.6	5089.6	4441.7	3810.0	3820.6	3793.7	4065.7	4175.3
52.5°	6025.1	6057.8	5954.9	5705.9	5259.8	4428.2	4426.3	4299.4	4666.6	4832.0
55°	6374.1	6385.6	6396.2	6334.6	6082.8	5131.9	5113.7	4906.0	5363.6	5534.8
57.5°	6701.9	6706.7	6800.9	6926.9	6939.4	5887.6	5853.9	5604.9	6125.1	6247.2
60°	6922.1	6944.2	7143.2	7493.1	7646.0	6667.3	6649.0	6395.2	6899.9	6956.7
62.5°	6604.8	6739.4	7241.2	7935.4	8313.2	7531.6	7522.9	7284.5	7715.2	7669.1
65°	5346.3	5574.2	6456.7	8234.4	8967.9	8496.8	8509.3	8255.5	8552.6	8402.6
67.5°	3739.8	3980.2	5024.3	8258.4	9699.5	9630.3	9702.4	9304.4	9441.9	9105.4
70°	2586.2	2710.2	3389.9	7741.2	10269.6	11191.6	11189.7	10592.7	10326.4	9425.5
72.5°	1739.2	1803.6	2201.6	6141.4	9850.5	12119.4	12063.6	11577.1	10624.4	8815.0
75°	733.5	780.7	1019.1	3451.4	7793.1	11087.8	10936.8	10231.2	9440.0	6941.3
77.5°	232.7	252.8	401.9	1235.4	4292.6	8334.3	8174.8	6389.4	6327.0	3482.2
80°	110.6	128.8	225.9	496.1	1689.2	4533.0	4510.9	2898.6	2721.7	940.2
82.5°	48.1	56.7	125.0	265.3	755.7	1617.1	1649.8	986.4	816.2	356.7
85°	15.4	20.2	57.7	122.1	319.2	401.9	397.1	234.6	328.8	194.2
87.5°	0.0	0.0	19.2	27.9	32.7	23.1	26.0	20.2	91.3	53.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947516

CATALOG NUMBER: GALN-SB2D-830-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1543.0	0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
1562.3	2.5°	1550.7	1535.4	1508.4	1483.4	1461.3	1439.2	1425.8	1406.5	1404.6	1404.6
1587.3	5°	1561.3	1536.3	1488.2	1437.3	1378.6	1322.9	1267.1	1213.3	1196.0	1183.5
1627.6	7.5°	1592.1	1552.7	1476.7	1379.6	1268.1	1146.0	1060.4	968.1	932.6	913.3
1681.5	10°	1636.3	1582.5	1467.1	1296.9	1116.2	949.9	827.8	727.8	689.3	673.0
1740.1	12.5°	1685.3	1619.0	1449.8	1194.1	949.9	750.9	631.6	585.5	579.7	579.7
1810.3	15°	1744.0	1663.2	1420.0	1072.9	775.8	594.1	551.8	553.8	559.5	563.4
1878.6	17.5°	1804.5	1710.3	1372.9	937.4	622.0	534.5	535.5	538.4	543.2	547.0
1952.6	20°	1869.9	1757.4	1310.4	793.2	533.6	517.2	520.1	523.0	526.8	528.8
2021.8	22.5°	1940.1	1801.7	1236.4	651.8	503.8	502.8	503.8	506.7	511.5	511.5
2102.6	25°	2015.1	1850.7	1151.8	549.0	488.4	488.4	490.3	492.2	496.1	496.1
2180.4	27.5°	2092.0	1895.9	1062.3	495.1	474.9	474.0	474.0	476.9	478.8	479.7
2257.4	30°	2176.6	1948.8	972.9	483.6	464.4	459.5	456.7	458.6	460.5	461.5
2338.1	32.5°	2263.1	1999.7	893.1	488.4	453.8	445.1	435.5	433.6	433.6	437.4
2421.8	35°	2359.3	2055.5	831.6	504.7	448.0	424.0	408.6	399.9	400.9	406.7
2521.7	37.5°	2474.6	2122.8	786.4	519.2	444.2	399.9	374.9	364.4	357.6	364.4
2659.2	40°	2625.6	2221.8	753.7	530.7	439.4	372.1	338.4	321.1	308.6	312.5
2872.7	42.5°	2847.7	2377.5	741.2	531.7	428.8	339.4	300.9	277.8	259.6	260.5
3193.8	45°	3159.1	2623.7	805.7	519.2	405.7	303.8	261.5	230.7	219.2	216.3
3673.5	47.5°	3586.0	2982.3	954.7	493.2	372.1	269.2	223.0	197.1	188.4	183.6
4303.2	50°	4158.0	3442.8	1120.0	464.4	338.4	236.5	191.3	175.0	169.2	164.4
5050.2	52.5°	4821.4	3910.0	1255.6	435.5	304.8	207.7	171.1	161.5	156.7	152.9
5771.3	55°	5430.0	4232.1	1247.9	404.7	272.1	184.6	156.7	150.9	145.2	141.3
6392.3	57.5°	5808.8	4277.3	1028.7	371.1	234.6	166.3	143.2	139.4	132.7	127.9
6929.7	60°	5982.8	4019.6	721.0	326.9	197.1	149.0	128.8	126.9	118.3	111.5
7438.3	62.5°	6014.5	3540.8	480.7	272.1	164.4	132.7	114.4	111.5	100.0	88.4
7851.7	65°	5885.7	2856.3	332.6	212.5	140.4	115.4	98.1	92.3	79.8	68.3
7949.8	67.5°	5478.0	2005.5	231.7	152.9	119.2	91.3	77.9	76.0	66.3	56.7
7449.9	70°	4731.0	1143.1	154.8	114.4	94.2	62.5	61.5	63.5	53.8	46.1
6086.6	72.5°	3627.3	523.0	96.1	83.6	64.4	42.3	49.0	50.0	41.3	34.6
3797.5	75°	2135.3	224.0	60.6	53.8	32.7	27.9	35.6	36.5	27.9	22.1
1388.3	77.5°	726.8	84.6	38.5	31.7	16.3	15.4	23.1	23.1	15.4	8.7
278.8	80°	165.4	31.7	19.2	12.5	7.7	6.7	7.7	6.7	3.8	1.0
85.6	82.5°	47.1	12.5	7.7	4.8	2.9	2.9	1.0	0.0	0.0	0.0
29.8	85°	13.5	5.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
10.6	87.5°	5.8	1.0	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

180°
1543.0
1409.4
1189.2
916.2
673.0
579.7
563.4
547.0
529.7
513.4
497.0
480.7
463.4
440.3
409.6
362.4
310.5
256.7
212.5
180.7
163.4
151.9
139.4
126.9
109.6
82.7
64.4
53.8
42.3
30.8
19.2
6.7
0.0
0.0
0.0
0.0
0.0

F REPORT)