

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: P939982

Luminaire Tested: **GALN-SB2D-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
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-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

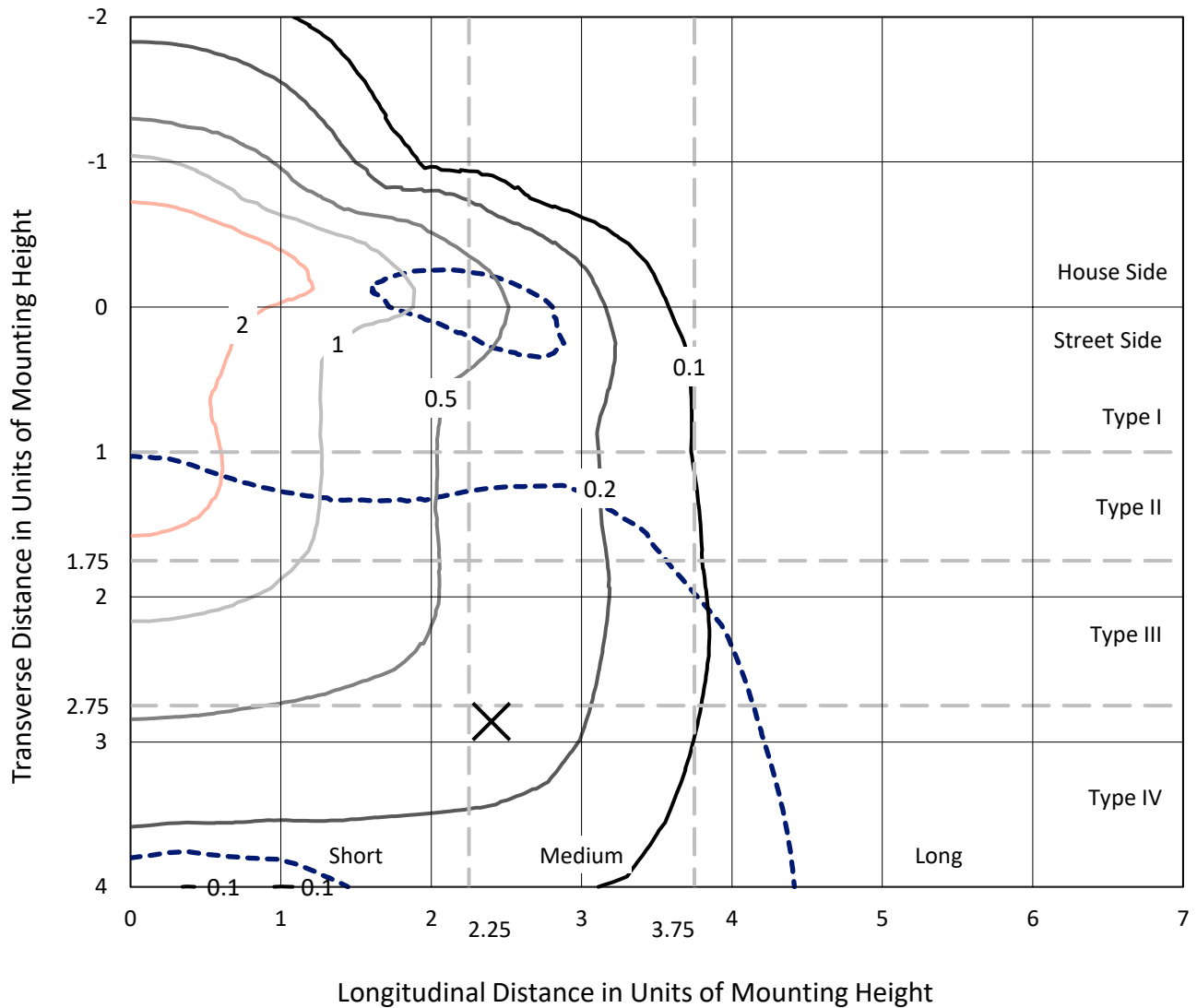
Lumens per Lamp: N/A  
Luminaire Lumens: 18126 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939982  
 CATALOG NUMBER: GALN-SB2D-830-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

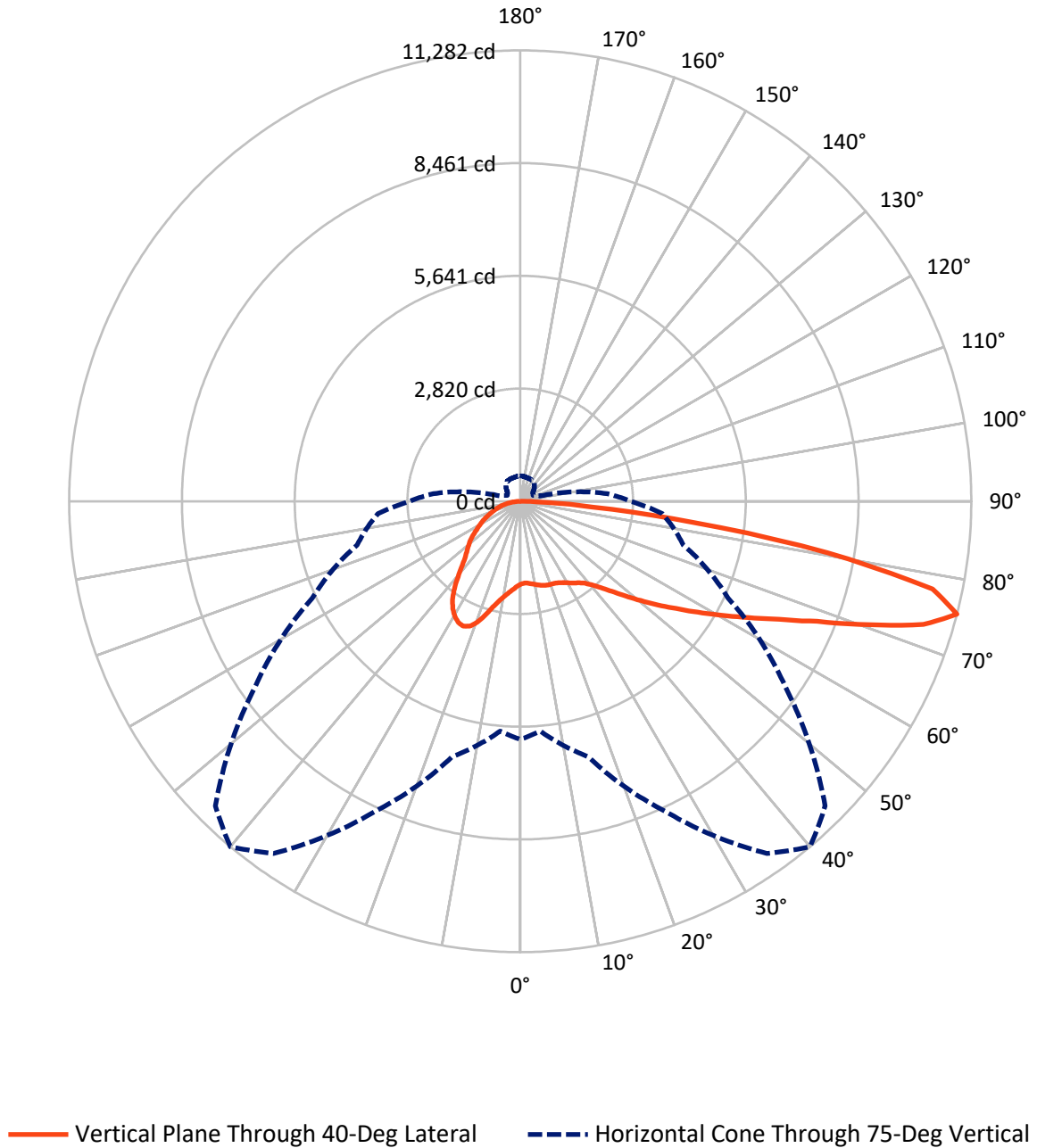
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P939982  
CATALOG NUMBER: GALN-SB2D-830-U-SL4

### Luminous Intensity Polar Plot



REPORT NUMBER: P939982  
 CATALOG NUMBER: GALN-SB2D-830-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5616.0	0.0	5616.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	12510.0	0.0	12510.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	18126.0	0.0	18126.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.9	1.1
10°-20°	694.7	3.8
20°-30°	1268.4	7.0
30°-40°	1798.9	9.9
40°-50°	2429.1	13.4
50°-60°	3267.7	18.0
60°-70°	4147.5	22.9
70°-80°	3764.1	20.8
80°-90°	548.7	3.0
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°	18126.0	100.0
0°-180°	18126.0	100.0



REPORT NUMBER: P939982

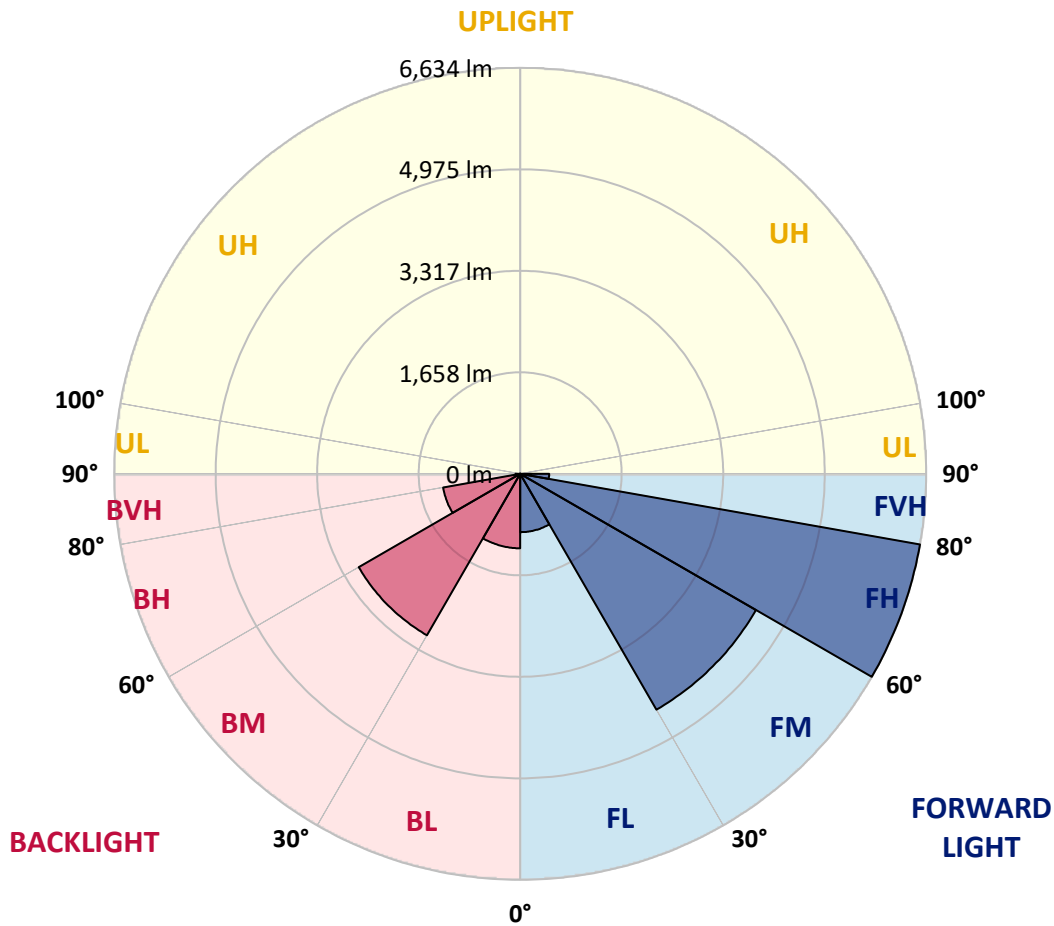
CATALOG NUMBER: GALN-SB2D-830-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	953.4	5.3			
FM (30°-60°)	4449.5	24.5			
FH (60°-80°)	6633.8	36.6			G3/7500
FVH (80°-90°)	473.1	2.6			G3/500
BL (0°-30°)	1216.5	6.7	B3/2500		
BM (30°-60°)	3046.2	16.8	B3/5000		
BH (60°-80°)	1277.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	75.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Medium



REPORT NUMBER: P939982  
 CATALOG NUMBER: GALN-SB2D-830-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2041.0	2052.5	2049.7	2045.8	2045.8	2046.8	2045.8	2052.5	2059.3	2066.0
5°	2062.2	2073.7	2067.9	2063.1	2059.3	2058.3	2055.4	2054.5	2058.3	2067.0
7.5°	2103.5	2115.0	2106.4	2097.7	2090.0	2086.2	2082.3	2076.6	2073.7	2078.5
10°	2149.6	2161.2	2150.6	2135.2	2122.7	2117.9	2114.1	2108.3	2104.5	2107.3
12.5°	2195.8	2207.3	2192.9	2171.8	2155.4	2152.5	2147.7	2145.8	2144.8	2143.9
15°	2239.1	2248.7	2230.4	2205.4	2188.1	2183.3	2178.5	2181.4	2186.2	2191.9
17.5°	2272.7	2282.3	2255.4	2222.7	2206.4	2204.4	2201.6	2211.2	2224.6	2239.1
20°	2303.5	2313.1	2278.5	2234.2	2215.0	2215.0	2216.0	2236.2	2255.4	2276.5
22.5°	2346.7	2354.4	2312.1	2251.5	2223.7	2225.6	2233.3	2253.5	2277.5	2306.3
25°	2411.1	2416.9	2365.0	2284.2	2252.5	2258.3	2265.0	2274.6	2297.7	2331.3
27.5°	2515.0	2519.8	2451.5	2341.9	2293.8	2303.5	2313.1	2306.3	2316.9	2345.8
30°	2661.1	2664.0	2577.5	2432.3	2364.0	2368.8	2370.8	2342.9	2322.7	2345.8
32.5°	2834.1	2833.2	2730.3	2541.9	2443.8	2439.0	2422.7	2367.9	2320.8	2341.0
35°	3102.4	3091.8	2959.1	2695.7	2534.2	2504.4	2465.9	2395.8	2330.4	2336.1
37.5°	3546.5	3513.8	3330.2	2947.6	2668.8	2592.8	2536.1	2440.9	2351.5	2334.2
40°	4047.4	4006.1	3804.2	3292.7	2870.7	2748.6	2657.3	2505.4	2386.1	2342.9
42.5°	4641.5	4582.9	4365.6	3699.4	3126.4	2949.5	2812.0	2587.1	2437.1	2370.8
45°	5371.2	5293.4	4985.7	4158.0	3448.5	3212.9	3029.3	2711.1	2515.0	2424.6
47.5°	6108.6	6127.8	5690.4	4682.9	3834.9	3537.9	3301.4	2897.6	2628.4	2511.1
50°	6892.1	6905.6	6391.2	5264.5	4273.3	3905.1	3607.1	3106.2	2786.1	2634.2
52.5°	7503.6	7505.5	7027.7	5873.1	4730.0	4308.9	3936.8	3344.6	2968.7	2797.6
55°	7886.2	7881.4	7473.8	6448.9	5254.9	4732.9	4302.2	3615.7	3191.8	2989.9
57.5°	8164.0	8149.6	7781.4	6944.0	5814.4	5233.7	4715.6	3923.4	3455.2	3218.7
60°	8269.8	8261.1	7990.0	7371.9	6402.8	5787.5	5192.4	4267.6	3754.2	3488.8
62.5°	8310.2	8326.5	8194.8	7786.2	7032.5	6400.9	5716.4	4679.0	4090.7	3794.6
65°	8452.4	8482.2	8455.3	8328.4	7743.9	7119.0	6411.4	5168.4	4457.9	4122.4
67.5°	8734.1	8763.9	8775.5	8977.4	8613.0	8014.1	7278.6	5777.9	4887.6	4462.7
70°	8727.4	8718.7	8922.6	9493.6	9701.3	9253.3	8447.6	6527.8	5400.1	4745.4
72.5°	7943.9	7874.7	8356.3	9487.8	10606.9	10547.3	9875.3	7494.9	5842.3	4780.0
75°	5959.6	5775.0	6625.8	8550.5	10757.8	11281.8	10782.8	8094.8	5737.5	4223.3
77.5°	2548.6	2363.1	3365.8	6329.7	9628.2	10546.3	9950.3	7062.3	4580.0	2792.8
80°	667.2	666.2	1017.1	2869.7	6547.9	7788.1	6832.5	4560.8	2616.9	997.9
82.5°	275.9	269.2	374.0	1116.2	3199.5	4370.4	3566.7	2034.3	945.0	270.1
85°	102.9	101.9	181.7	385.5	1128.7	1802.6	1304.6	520.1	235.5	131.7
87.5°	28.8	27.9	39.4	133.6	275.0	417.2	223.0	85.6	66.3	51.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939982  
 CATALOG NUMBER: GALN-SB2D-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2072.7	0°	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7	2072.7
2076.6	2.5°	2079.5	2084.3	2092.9	2099.7	2108.3	2117.9	2131.4	2140.0	2148.7	2154.4
2081.4	5°	2088.1	2098.7	2120.8	2142.9	2168.9	2192.9	2220.8	2241.0	2257.3	2262.1
2098.7	7.5°	2107.3	2124.6	2162.1	2199.6	2241.0	2280.4	2320.8	2355.4	2383.3	2393.8
2129.5	10°	2141.0	2164.1	2216.9	2269.8	2324.6	2385.2	2437.1	2487.1	2526.5	2542.8
2166.0	12.5°	2183.3	2212.1	2281.4	2354.4	2430.4	2514.0	2581.3	2642.8	2691.9	2714.0
2216.9	15°	2238.1	2275.6	2364.0	2462.1	2573.6	2689.9	2775.5	2843.8	2898.6	2925.5
2269.8	17.5°	2297.7	2347.7	2459.2	2607.3	2766.8	2919.7	3019.7	3069.7	3126.4	3152.4
2318.8	20°	2355.4	2416.9	2576.5	2791.8	3004.3	3166.8	3247.5	3261.0	3264.8	3267.7
2365.0	22.5°	2415.0	2497.7	2723.6	3024.5	3252.3	3364.8	3376.4	3318.7	3237.9	3200.4
2410.2	25°	2480.4	2590.0	2915.9	3281.2	3465.8	3479.2	3390.8	3250.4	3097.6	3027.4
2446.7	27.5°	2543.8	2696.7	3146.6	3526.3	3619.6	3501.3	3311.0	3112.0	2927.4	2853.4
2472.7	30°	2607.3	2818.8	3401.4	3740.7	3689.8	3446.5	3185.0	2963.0	2777.4	2699.6
2495.7	32.5°	2671.7	2961.0	3694.6	3895.5	3677.3	3330.2	3028.3	2795.7	2632.3	2550.5
2515.9	35°	2744.7	3136.0	3972.4	3980.1	3593.6	3159.1	2821.6	2595.7	2453.4	2388.1
2540.0	37.5°	2839.9	3358.1	4217.6	4001.3	3447.5	2908.2	2565.0	2359.2	2241.9	2212.1
2575.5	40°	2958.2	3625.4	4405.0	3967.6	3231.2	2603.4	2284.2	2119.8	2053.5	2060.2
2623.6	42.5°	3112.0	3924.3	4536.7	3881.1	2930.3	2289.0	2038.1	1965.1	1996.8	2023.7
2695.7	45°	3311.9	4234.9	4618.5	3734.0	2590.0	2022.7	1893.0	1910.3	1934.3	1937.2
2812.0	47.5°	3567.7	4549.2	4672.3	3511.9	2242.9	1835.3	1800.7	1804.5	1799.7	1779.5
2986.0	50°	3886.9	4855.0	4720.4	3217.7	1947.8	1718.0	1671.8	1658.4	1592.0	1526.7
3217.7	52.5°	4250.3	5135.7	4740.6	2852.4	1718.0	1619.9	1544.9	1460.3	1336.3	1316.1
3509.0	55°	4654.0	5395.3	4688.6	2403.4	1524.7	1494.0	1380.5	1278.6	1265.2	1247.9
3892.6	57.5°	5136.6	5675.0	4582.9	1902.6	1326.7	1346.9	1236.3	1247.9	1223.8	1196.9
4385.8	60°	5664.4	5964.4	4397.3	1445.9	1121.9	1163.3	1198.8	1197.9	1191.1	1169.0
4905.9	62.5°	6139.4	6154.7	4032.0	1107.5	942.2	1021.0	1118.1	1117.1	1111.4	1098.9
5449.1	65°	6422.0	6125.9	3422.5	872.0	794.1	903.7	1008.5	1016.2	1017.1	1016.2
5857.7	67.5°	6372.0	5788.5	2586.1	694.1	672.0	784.5	899.9	910.4	918.1	920.0
5909.6	70°	5806.7	5047.2	1686.3	553.8	563.4	679.7	797.0	807.6	814.3	822.0
5128.0	72.5°	4526.2	3710.9	965.2	448.0	468.2	589.3	695.1	707.6	711.4	725.8
3568.6	75°	2758.2	2182.3	521.1	352.8	384.6	503.8	594.1	608.6	615.3	632.6
1752.6	77.5°	1311.3	945.0	297.1	275.0	309.6	411.5	501.8	518.2	499.9	509.5
483.6	80°	443.2	350.9	187.5	209.6	236.5	321.1	401.9	418.2	379.7	377.8
160.6	82.5°	154.8	142.3	119.2	139.4	152.9	229.8	303.8	324.9	282.6	281.7
72.1	85°	60.6	57.7	66.3	75.9	91.3	141.3	200.0	210.5	174.0	140.4
21.2	87.5°	12.5	13.5	16.3	17.3	27.9	49.0	72.1	88.4	70.2	59.6
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>
2072.7
2150.6
2264.0
2394.8
2543.8
2714.0
2923.6
3151.4
3275.4
3211.0
3038.0
2862.0
2708.2
2561.1
2402.5
2233.3
2083.3
2048.7
1956.4
1794.9
1535.3
1322.9
1250.8
1192.1
1161.3
1094.0
1016.2
922.0
825.8
731.6
634.5
501.8
374.0
268.2
138.4
54.8
0.0

F REPORT)