

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: P941007

Luminaire Tested: **GALN-SB4B-830-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-830-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

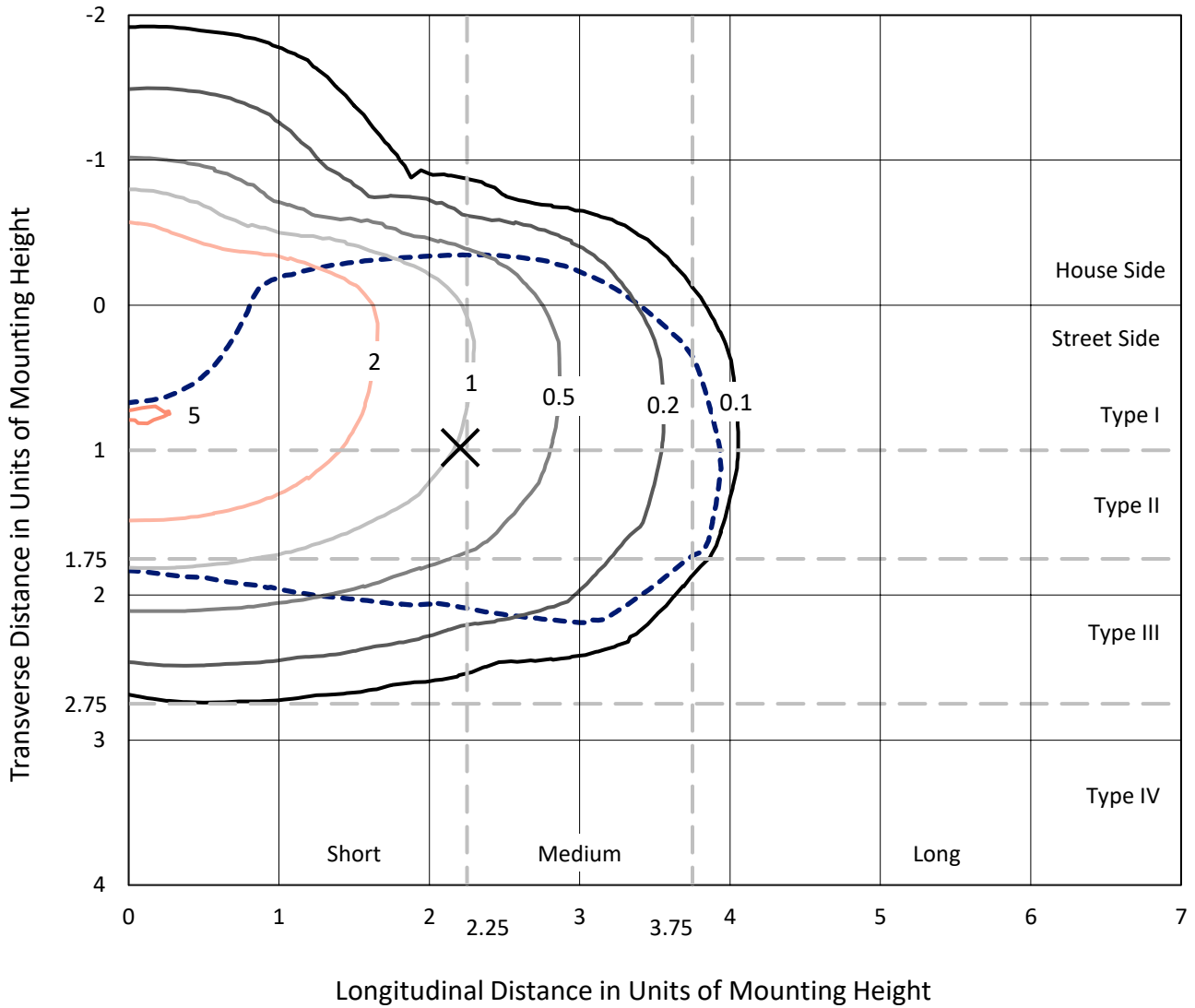
Lumens per Lamp: N/A  
Luminaire Lumens: 20292 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P941007  
 CATALOG NUMBER: GALN-SB4B-830-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

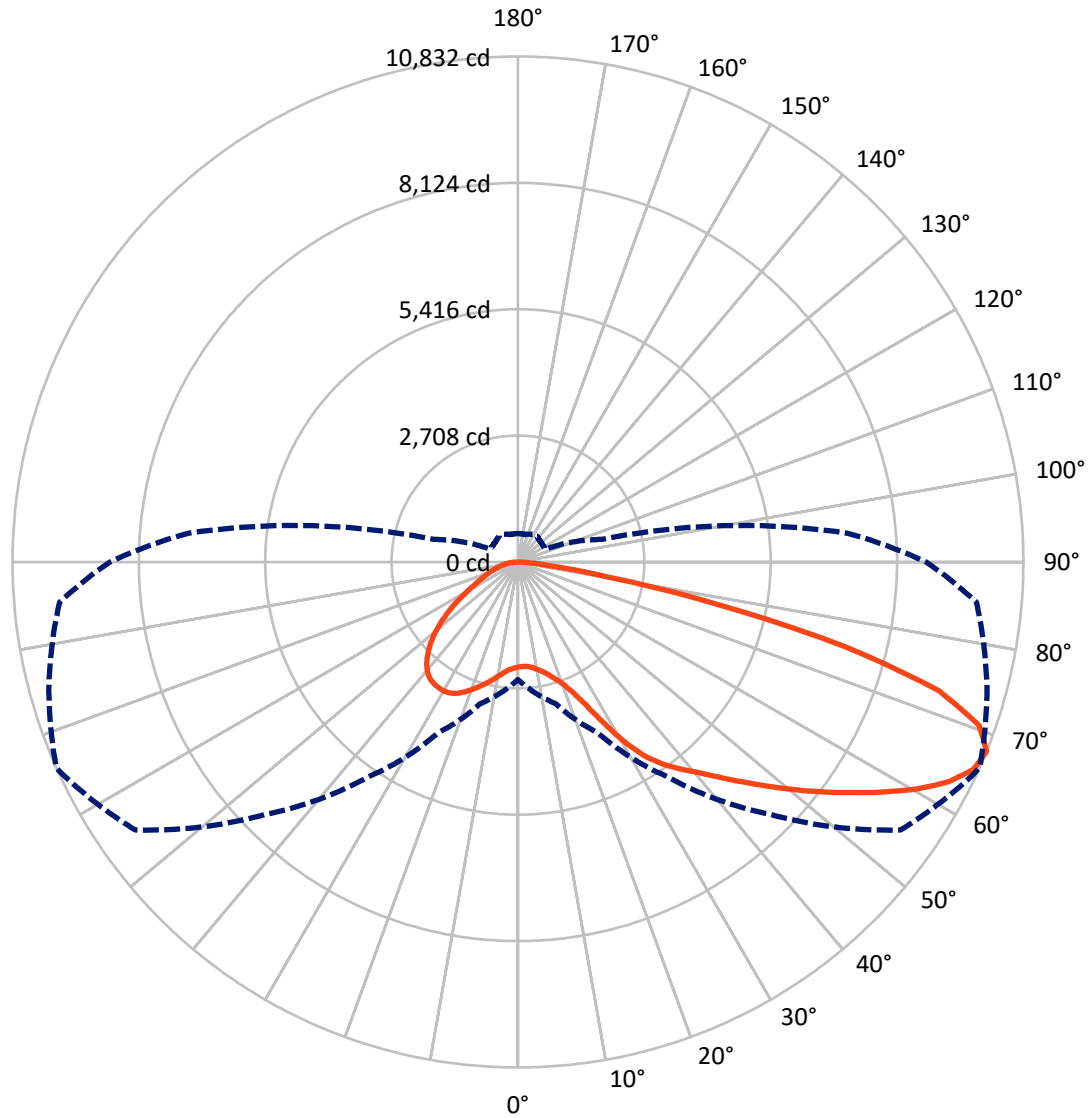
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P941007  
CATALOG NUMBER: GALN-SB4B-830-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P941007  
 CATALOG NUMBER: GALN-SB4B-830-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5045.5	0.0	5045.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	15246.5	0.0	15246.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	20292.0	0.0	20292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.1	1.1
10°-20°	737.2	3.6
20°-30°	1421.0	7.0
30°-40°	2491.5	12.3
40°-50°	3704.0	18.3
50°-60°	4695.2	23.1
60°-70°	4594.2	22.6
70°-80°	2191.5	10.8
80°-90°	234.2	1.2
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°	20292.0	100.0
0°-180°	20292.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P941007

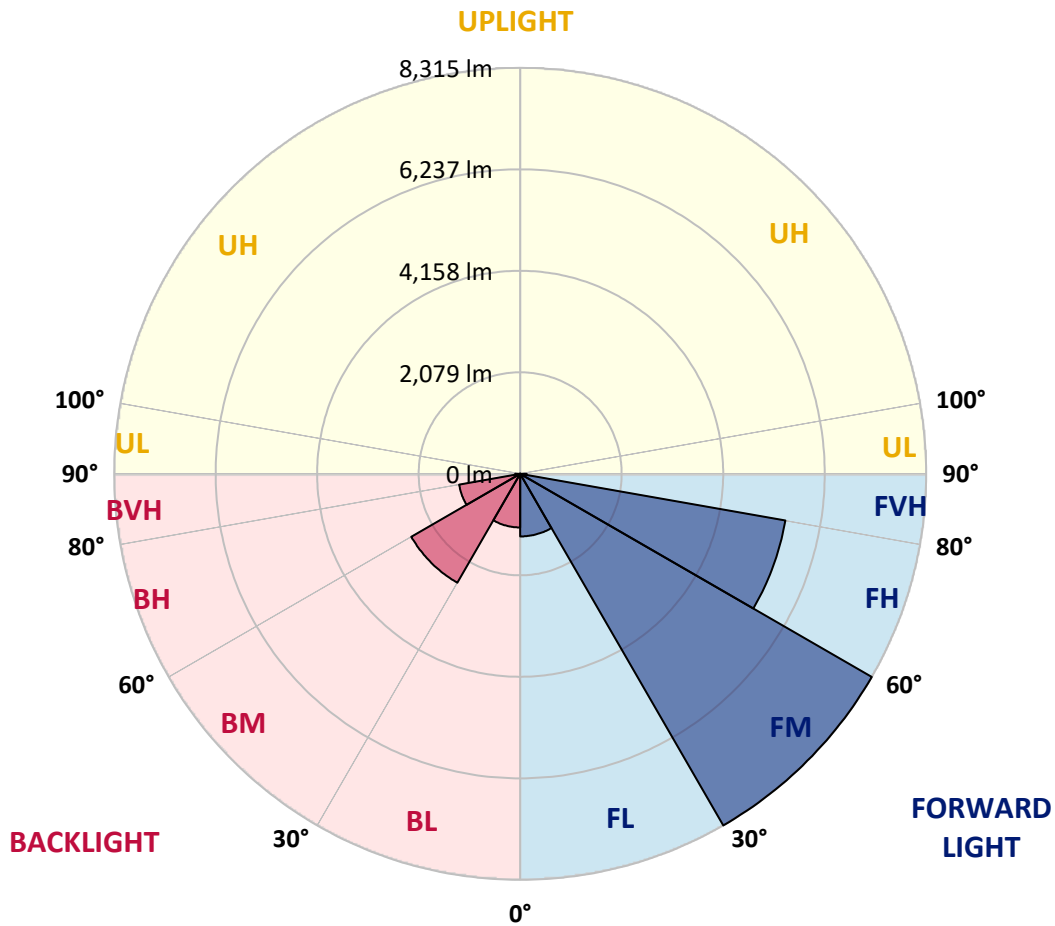
CATALOG NUMBER: GALN-SB4B-830-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.3	6.3			
FM (30°-60°)	8315.5	41.0			
FH (60°-80°)	5515.9	27.2			G3/7500
FVH (80°-90°)	132.8	0.7			G2/225
BL (0°-30°)	1099.1	5.4	B3/2500		
BM (30°-60°)	2575.3	12.7	B3/5000		
BH (60°-80°)	1269.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	101.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short



REPORT NUMBER: P941007  
 CATALOG NUMBER: GALN-SB4B-830-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7
2.5°	2227.2	2240.0	2236.8	2231.5	2230.4	2232.5	2235.7	2238.9	2237.9	2243.2
5°	2220.8	2233.6	2232.5	2232.5	2236.8	2245.3	2250.7	2256.0	2250.7	2257.0
7.5°	2225.1	2234.7	2238.9	2243.2	2253.8	2269.8	2282.6	2294.4	2288.0	2295.4
10°	2279.4	2286.9	2291.2	2291.2	2298.6	2316.8	2329.5	2350.9	2345.5	2357.3
12.5°	2378.6	2386.1	2386.1	2381.8	2387.1	2398.8	2403.1	2426.6	2417.0	2436.2
15°	2500.1	2515.1	2503.3	2495.9	2498.0	2509.7	2508.7	2526.8	2517.2	2533.2
17.5°	2634.5	2653.7	2634.5	2633.4	2629.1	2641.9	2643.0	2659.0	2641.9	2653.7
20°	2793.3	2820.0	2804.0	2809.3	2799.7	2805.1	2810.4	2833.8	2807.2	2815.7
22.5°	3017.2	3049.2	3032.1	3052.4	3046.0	3041.7	3040.7	3082.3	3040.7	3043.9
25°	3343.5	3381.8	3352.0	3379.7	3379.7	3393.6	3409.6	3462.9	3393.6	3373.3
27.5°	3825.4	3863.7	3805.1	3822.2	3816.8	3850.9	3833.9	3966.1	3891.5	3858.4
30°	4405.3	4473.6	4362.7	4358.4	4353.1	4407.5	4432.0	4519.4	4443.7	4410.7
32.5°	5032.2	5103.7	4971.5	4933.1	4912.8	4945.9	4925.6	4996.0	4943.8	4892.6
35°	5695.4	5765.8	5640.0	5565.3	5484.3	5415.0	5342.5	5360.6	5311.6	5233.7
37.5°	6322.3	6451.3	6318.0	6238.1	6088.8	5953.4	5750.8	5666.6	5620.8	5549.3
40°	6960.9	7034.5	6933.2	6865.0	6702.9	6490.7	6166.6	5988.6	5926.7	5857.4
42.5°	7431.1	7501.5	7447.1	7400.2	7273.3	7027.0	6608.0	6385.2	6295.6	6217.8
45°	7804.2	7856.5	7822.4	7839.4	7785.1	7546.2	7065.4	6810.6	6717.8	6622.9
47.5°	7954.6	8010.0	8064.4	8165.7	8258.4	8082.5	7556.9	7271.2	7173.1	7076.1
50°	7937.5	7994.0	8151.8	8367.2	8655.0	8596.4	8075.0	7761.6	7671.0	7560.1
52.5°	7801.0	7865.0	8067.6	8425.8	8884.3	8981.3	8602.8	8268.0	8182.7	8050.5
55°	7442.8	7481.2	7785.1	8292.5	8938.6	9250.0	9119.9	8807.5	8722.2	8537.8
57.5°	6778.6	6834.0	7276.5	7933.3	8802.2	9432.3	9574.1	9374.7	9292.6	9027.1
60°	5911.8	6000.3	6506.7	7329.8	8454.6	9431.2	9986.7	9932.3	9864.1	9509.0
62.5°	4931.0	5033.3	5520.5	6476.9	7846.9	9163.6	10244.7	10399.3	10364.1	9953.6
65°	3787.0	3857.3	4342.4	5373.4	6901.2	8588.9	10274.5	10718.0	10724.4	10291.6
67.5°	2521.5	2724.0	3145.2	4032.2	5634.6	7649.7	10012.3	10770.3	10832.1	10407.8
70°	1230.3	1496.9	1909.5	2620.6	4032.2	6209.3	9326.7	10341.7	10479.2	10068.8
72.5°	510.7	597.0	822.0	1293.2	2314.6	4190.0	7949.2	9179.6	9434.4	8921.6
75°	344.4	373.2	470.2	663.1	1054.4	2066.2	5732.7	6844.7	7255.2	6738.1
77.5°	265.5	283.6	342.2	463.8	626.9	781.5	3068.4	4124.9	4337.1	4015.1
80°	209.0	222.8	255.9	338.0	444.6	417.9	1045.9	1869.0	1991.6	1670.7
82.5°	181.2	186.6	183.4	229.2	295.3	244.1	343.3	689.8	761.2	552.3
85°	131.1	146.1	152.5	141.8	156.7	123.7	140.7	244.1	268.7	239.9
87.5°	53.3	78.9	97.0	91.7	57.6	35.2	43.7	71.4	82.1	89.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941007  
 CATALOG NUMBER: GALN-SB4B-830-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2250.7	0°	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7	2250.7
2251.7	2.5°	2252.8	2260.2	2265.6	2272.0	2276.2	2282.6	2295.4	2302.9	2304.0	2309.3
2268.8	5°	2273.0	2283.7	2295.4	2312.5	2331.7	2347.7	2372.2	2389.3	2395.6	2401.0
2310.4	7.5°	2316.8	2331.7	2353.0	2382.9	2410.6	2431.9	2461.7	2482.0	2502.3	2509.7
2376.5	10°	2381.8	2403.1	2434.0	2474.5	2504.4	2532.1	2563.0	2580.1	2600.3	2608.9
2455.4	12.5°	2462.8	2485.2	2525.7	2582.2	2609.9	2629.1	2639.8	2635.5	2639.8	2647.3
2550.2	15°	2555.6	2580.1	2625.9	2686.7	2705.9	2688.8	2665.4	2644.1	2640.9	2643.0
2665.4	17.5°	2665.4	2683.5	2736.8	2788.0	2774.1	2703.8	2652.6	2618.5	2601.4	2596.1
2812.5	20°	2818.9	2818.9	2862.6	2894.6	2801.9	2682.4	2602.5	2547.0	2511.9	2496.9
3013.0	22.5°	3005.5	2988.4	3016.1	2993.8	2796.5	2622.7	2511.9	2415.9	2362.6	2341.3
3293.3	25°	3242.2	3221.9	3214.5	3075.9	2758.1	2527.9	2347.7	2231.5	2184.5	2172.8
3697.4	27.5°	3599.3	3548.2	3451.1	3120.6	2687.8	2378.6	2155.8	2048.1	2021.4	2022.5
4216.6	30°	4074.8	3972.5	3734.7	3128.1	2572.6	2167.5	1959.6	1882.8	1870.0	1875.4
4652.7	32.5°	4515.2	4418.1	4024.7	3094.0	2395.6	1960.7	1783.7	1732.5	1713.3	1719.7
4985.3	35°	4860.6	4833.9	4293.4	3046.0	2178.2	1766.6	1625.9	1582.2	1544.9	1536.3
5298.8	37.5°	5186.8	5176.2	4494.9	2978.8	1962.8	1629.1	1499.0	1441.4	1387.1	1357.2
5645.3	40°	5545.1	5534.4	4627.1	2875.4	1771.9	1509.7	1384.9	1309.2	1242.1	1187.7
6037.6	42.5°	5948.1	5885.2	4690.0	2727.2	1609.9	1408.4	1292.2	1189.8	1101.3	1051.2
6481.1	45°	6388.4	6246.6	4688.9	2538.5	1473.4	1315.6	1193.0	1048.0	965.9	919.0
6936.4	47.5°	6855.4	6592.0	4631.4	2329.5	1341.2	1213.3	1039.5	928.6	874.2	845.5
7431.1	50°	7337.3	6915.1	4533.3	2089.7	1205.8	1097.1	943.5	867.8	826.3	799.6
7921.5	52.5°	7790.4	7208.3	4414.9	1817.8	1068.3	984.1	900.9	842.3	798.5	768.7
8397.0	55°	8211.5	7460.9	4247.6	1539.5	956.3	908.4	880.6	831.6	781.5	746.3
8880.0	57.5°	8585.7	7625.1	3958.6	1278.3	876.4	856.1	859.3	813.5	755.9	726.1
9355.5	60°	8897.1	7745.6	3531.1	1036.3	811.3	804.9	826.3	779.4	712.2	678.1
9757.4	62.5°	9083.6	7743.5	3006.6	848.7	755.9	758.0	782.6	736.7	668.5	636.5
9967.5	65°	9067.6	7553.7	2430.8	726.1	702.6	704.7	736.7	689.8	632.2	613.0
9861.9	67.5°	8746.7	7091.0	1864.7	646.1	644.0	653.6	690.9	657.8	609.8	607.7
9232.9	70°	7877.8	6130.4	1343.4	582.1	583.2	597.0	646.1	637.6	598.1	602.4
7762.7	72.5°	6317.0	4674.0	902.0	515.0	516.0	538.4	603.4	621.6	586.4	642.9
5507.8	75°	4207.0	2914.9	580.0	443.5	444.6	473.4	566.1	590.6	554.4	640.8
2865.8	77.5°	2021.4	1310.3	420.1	373.2	373.2	399.8	489.4	528.8	472.3	497.9
921.2	80°	698.3	492.6	330.5	300.7	294.3	312.4	412.6	458.4	407.3	375.3
300.7	82.5°	275.1	255.9	265.5	233.5	212.2	223.9	320.9	378.5	299.6	270.8
169.5	85°	157.8	166.3	187.6	154.6	122.6	137.5	235.6	271.9	226.0	199.4
55.4	87.5°	42.6	58.6	86.4	80.0	55.4	58.6	111.9	150.3	130.1	100.2
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°  
2250.7  
2308.2  
2399.9  
2510.8  
2613.1  
2649.4  
2650.5  
2603.5  
2493.7  
2338.1  
2175.0  
2025.7  
1893.5  
1728.2  
1542.7  
1358.3  
1193.0  
1054.4  
916.9  
839.1  
790.0  
755.9  
732.4  
706.9  
663.1  
626.9  
612.0  
*610.9*  
601.3  
651.4  
646.1  
456.3  
351.8  
269.7  
203.6  
103.4  
0.0

F REPORT)