

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: P941176

Luminaire Tested: **GALN-SB4C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21152 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

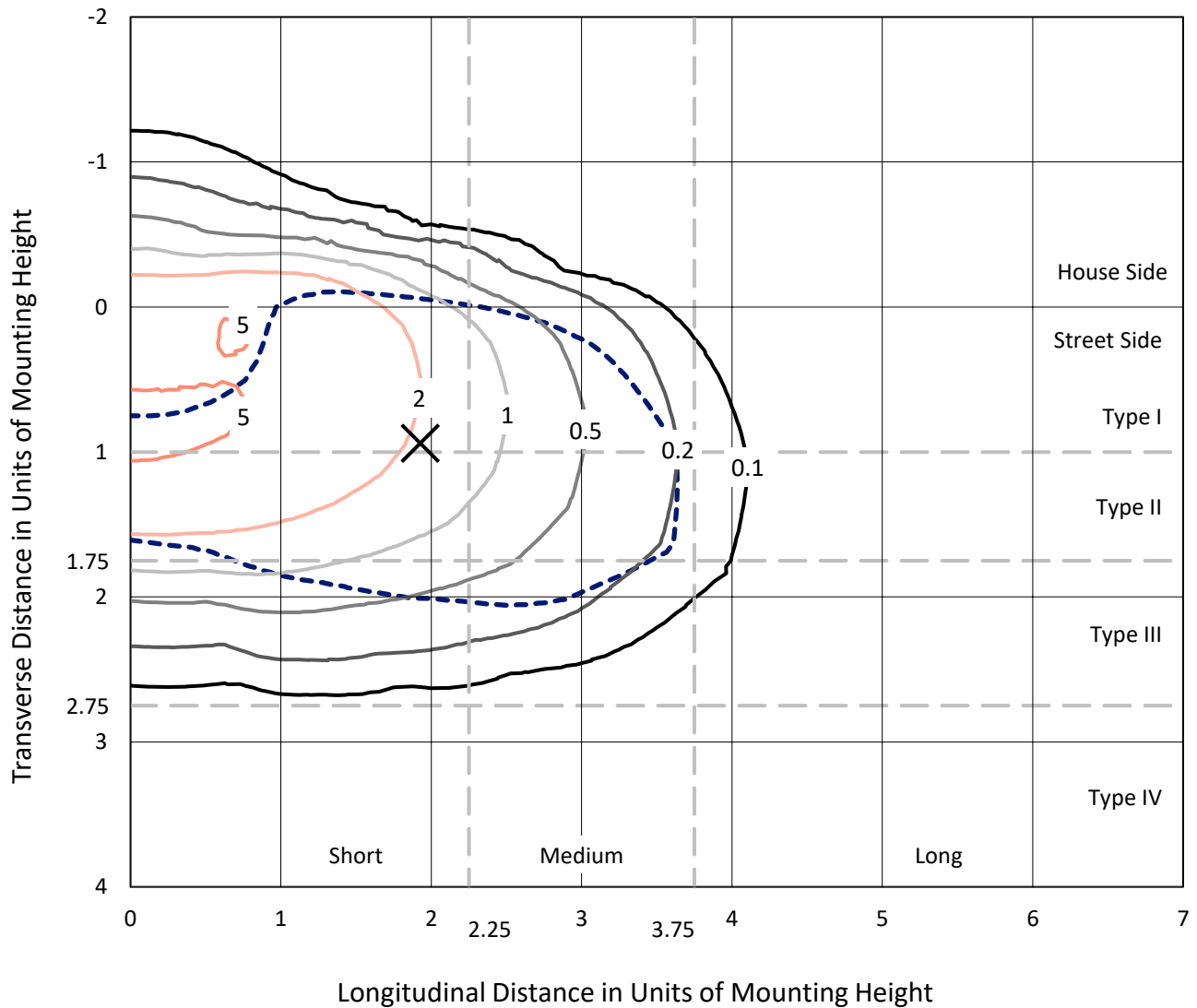
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941176
 CATALOG NUMBER: GALN-SB4C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

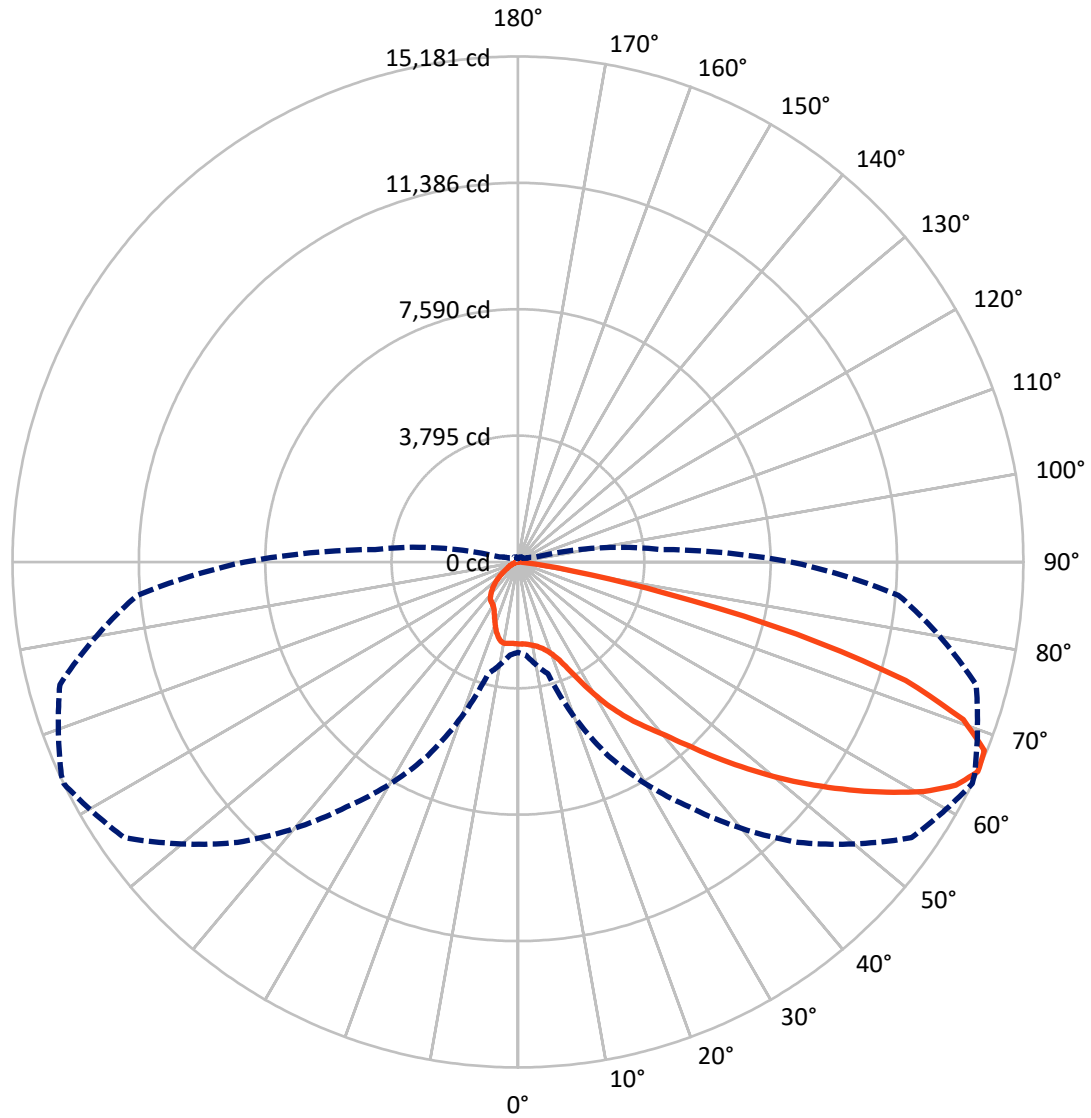
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P941176
CATALOG NUMBER: GALN-SB4C-830-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P941176
 CATALOG NUMBER: GALN-SB4C-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2828.7	0.0	2828.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18323.3	0.0	18323.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	21152.0	0.0	21152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	1.1
10°-20°	615.6	2.9
20°-30°	1166.6	5.5
30°-40°	2360.6	11.2
40°-50°	4021.3	19.0
50°-60°	5468.6	25.9
60°-70°	5135.3	24.3
70°-80°	2057.4	9.7
80°-90°	99.7	0.5
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°	21152.0	100.0
0°-180°	21152.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941176

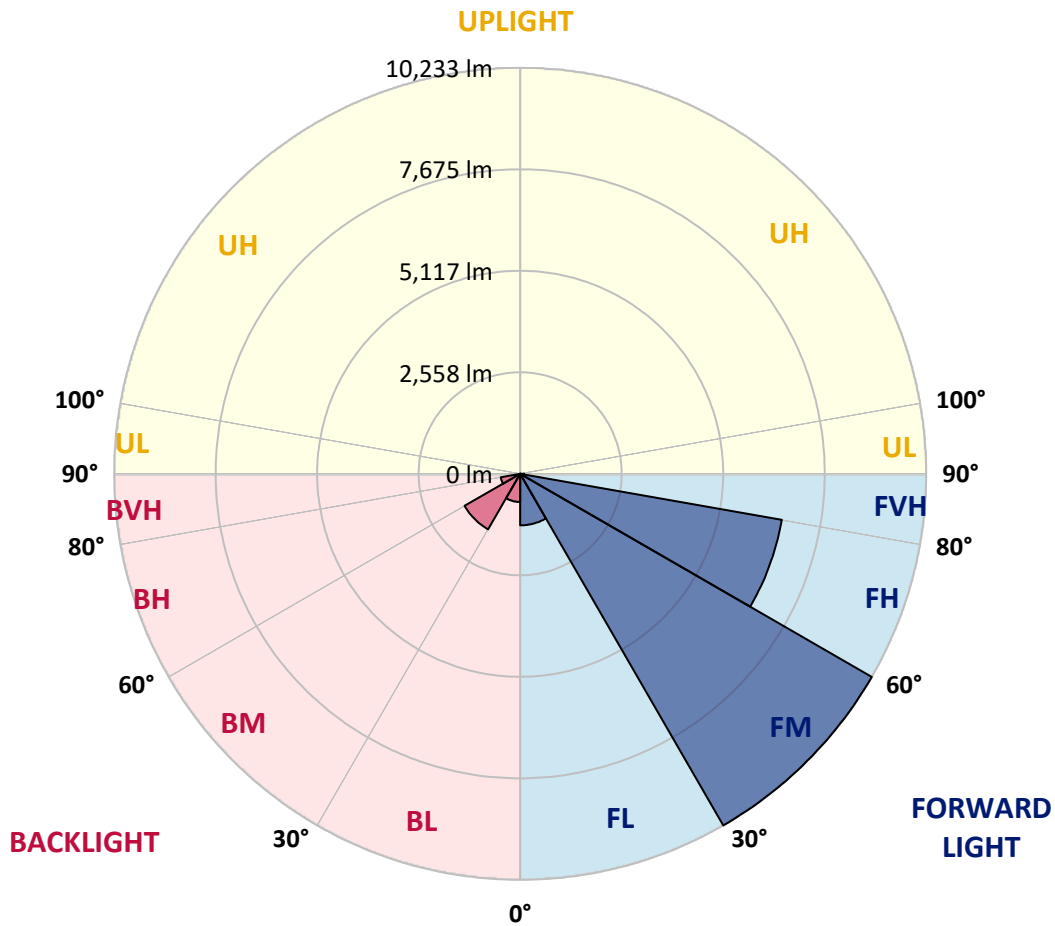
CATALOG NUMBER: GALN-SB4C-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1299.0	6.1			
FM (30°-60°)	10233.3	48.4			
FH (60°-80°)	6696.2	31.7			G3/7500
FVH (80°-90°)	94.8	0.4			G1/100
BL (0°-30°)	710.2	3.4	B2/1000		
BM (30°-60°)	1617.1	7.6	B2/2500		
BH (60°-80°)	496.5	2.3	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P941176
 CATALOG NUMBER: GALN-SB4C-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2
2.5°	2451.7	2468.7	2464.5	2460.2	2458.8	2461.6	2463.0	2461.6	2461.6	2461.6
5°	2404.9	2419.1	2419.1	2429.0	2443.2	2460.2	2473.0	2475.8	2478.6	2482.9
7.5°	2315.6	2326.9	2335.4	2368.0	2403.5	2448.9	2487.1	2507.0	2509.8	2525.4
10°	2254.6	2268.8	2282.9	2317.0	2368.0	2436.1	2501.3	2549.5	2556.6	2593.5
12.5°	2251.8	2265.9	2284.4	2321.2	2380.8	2453.1	2532.5	2602.0	2614.8	2668.6
15°	2281.5	2298.5	2315.6	2360.9	2424.7	2512.7	2597.7	2684.2	2697.0	2773.6
17.5°	2342.5	2365.2	2378.0	2423.3	2491.4	2589.2	2701.3	2800.5	2811.9	2901.2
20°	2463.0	2490.0	2494.2	2531.1	2597.7	2702.7	2836.0	2959.3	2973.5	3075.6
22.5°	2712.6	2750.9	2716.9	2735.3	2794.8	2899.8	3044.4	3200.4	3220.2	3336.5
25°	3152.2	3206.1	3118.1	3086.9	3112.5	3221.7	3403.2	3600.3	3622.9	3716.5
27.5°	4015.7	3946.2	3813.0	3682.5	3605.9	3668.3	3872.5	4116.4	4144.8	4235.5
30°	4964.4	4903.4	4723.3	4434.0	4252.5	4242.6	4431.2	4703.4	4736.1	4822.6
32.5°	5914.4	5856.3	5660.6	5304.7	4989.9	4833.9	4964.4	5266.4	5283.4	5338.7
35°	6848.8	6789.3	6593.6	6229.2	5842.1	5487.6	5462.1	5802.4	5808.1	5866.2
37.5°	7789.0	7739.3	7530.9	7173.6	6792.1	6302.9	6066.1	6310.0	6317.1	6373.8
40°	8459.7	8480.9	8337.7	8061.2	7733.7	7199.1	6743.9	6850.3	6807.7	6902.7
42.5°	9035.4	9077.9	8953.1	8814.2	8624.2	8153.4	7583.4	7564.9	7496.9	7547.9
45°	9533.1	9568.5	9456.5	9423.9	9419.6	9089.3	8500.8	8390.2	8295.2	8285.3
47.5°	9716.0	9784.1	9832.3	9941.5	10154.2	10015.2	9449.4	9277.9	9171.5	9093.5
50°	9785.5	9857.8	10022.3	10339.9	10843.3	10902.9	10393.8	10201.0	10070.5	9928.7
52.5°	9691.9	9820.9	10042.1	10576.7	11307.0	11614.7	11299.9	11131.2	10982.3	10751.1
55°	9140.3	9269.3	9721.7	10573.9	11538.1	12113.8	12156.4	12081.2	11913.9	11549.5
57.5°	7977.6	8169.0	8885.1	10213.7	11533.9	12543.5	12995.8	13049.7	12862.5	12340.7
60°	6366.7	6626.2	7499.7	9415.4	11177.9	12776.0	13731.7	14001.1	13802.6	13120.6
62.5°	4442.5	4743.1	5569.8	8164.7	10364.0	12608.7	14269.1	14766.9	14616.5	13818.2
65°	2709.8	2806.2	3472.6	6424.9	8980.1	11908.2	14435.0	15180.9	15131.3	14245.0
67.5°	1805.1	1885.9	2077.3	4405.7	6970.8	10508.7	14038.0	15108.6	15122.8	14175.6
70°	1087.6	1157.1	1281.9	2562.3	4517.7	8317.9	12808.6	14186.9	14269.1	13246.8
72.5°	448.1	494.9	608.3	1161.3	2339.7	5279.1	10199.5	12180.5	12371.9	11138.2
75°	253.8	277.9	357.3	582.8	1015.3	2460.2	6178.1	8646.8	8929.0	7676.9
77.5°	168.7	180.1	231.1	377.2	571.4	839.4	2640.3	4504.9	5043.8	4193.0
80°	113.4	123.4	158.8	252.4	371.5	360.2	840.9	1669.0	2053.2	1440.7
82.5°	76.6	78.0	113.4	165.9	235.4	174.4	248.1	519.0	652.3	416.9
85°	44.0	42.5	83.7	96.4	104.9	72.3	75.2	156.0	204.2	175.8
87.5°	5.7	8.5	32.6	25.5	14.2	15.6	15.6	26.9	39.7	42.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941176
 CATALOG NUMBER: GALN-SB4C-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2460.2	0°	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2	2460.2
2463.0	2.5°	2463.0	2461.6	2457.4	2453.1	2443.2	2437.5	2440.3	2437.5	2436.1	2437.5
2481.5	5°	2481.5	2477.2	2465.9	2451.7	2431.8	2407.7	2392.1	2369.4	2348.2	2335.4
2531.1	7.5°	2531.1	2526.8	2511.2	2471.5	2407.7	2307.1	2214.9	2134.1	2073.1	2037.6
2610.5	10°	2610.5	2603.4	2579.3	2491.4	2324.1	2104.3	1921.4	1769.6	1670.4	1623.6
2704.1	12.5°	2704.1	2695.6	2653.0	2473.0	2165.3	1822.1	1569.7	1401.0	1308.8	1267.7
2811.9	15°	2814.7	2803.3	2719.7	2385.0	1934.1	1510.1	1279.0	1152.8	1093.3	1056.4
2949.4	17.5°	2952.2	2932.4	2769.3	2253.2	1683.1	1271.9	1100.4	1005.3	952.9	917.4
3129.5	20°	3130.9	3098.3	2809.0	2095.8	1452.0	1121.6	979.8	900.4	860.7	829.5
3384.7	22.5°	3380.5	3333.7	2857.2	1925.6	1288.9	1018.1	890.5	832.4	799.7	764.3
3740.6	25°	3689.6	3634.3	2916.8	1768.2	1176.9	928.8	825.3	777.1	738.8	697.6
4207.1	27.5°	4122.1	4022.8	2987.7	1639.2	1080.5	852.2	765.7	711.8	667.9	633.8
4736.1	30°	4604.2	4441.1	3050.1	1561.2	992.6	781.3	687.7	633.8	592.7	568.6
5211.1	32.5°	5060.8	4839.6	3091.2	1527.2	913.2	700.5	602.6	544.5	513.3	506.2
5676.2	35°	5491.8	5199.7	3086.9	1494.6	842.3	619.7	519.0	459.4	435.3	439.6
6176.7	37.5°	5988.1	5584.0	3057.2	1443.5	784.1	545.9	446.7	394.2	372.9	374.3
6785.0	40°	6565.3	6027.8	3038.7	1347.1	720.3	477.9	387.1	344.6	329.0	323.3
7426.0	42.5°	7180.7	6457.5	3041.6	1237.9	640.9	416.9	346.0	310.5	296.4	292.1
8139.2	45°	7798.9	6867.3	3045.8	1124.5	557.3	370.1	316.2	286.4	277.9	272.3
8862.4	47.5°	8380.3	7216.1	2966.4	1002.5	475.0	334.6	292.1	272.3	265.2	258.1
9588.4	50°	8921.9	7448.7	2775.0	860.7	409.8	306.3	273.7	259.5	252.4	245.3
10246.3	52.5°	9343.1	7485.5	2458.8	714.7	364.4	285.0	262.3	249.6	241.1	234.0
10778.1	55°	9530.3	7254.4	2009.3	578.5	329.0	266.6	251.0	238.2	228.3	221.2
11196.4	57.5°	9482.0	6768.0	1566.9	465.1	294.9	248.1	236.8	228.3	217.0	205.6
11535.3	60°	9245.2	6117.2	1181.2	387.1	263.7	228.3	221.2	214.1	198.5	181.5
11665.7	62.5°	8835.4	5299.0	842.3	320.5	229.7	205.6	202.8	197.1	174.4	143.2
11472.9	65°	8208.7	4305.0	567.2	266.6	197.1	180.1	181.5	171.6	141.8	106.3
10766.7	67.5°	7292.7	3147.9	363.0	218.4	164.5	150.3	151.7	146.1	120.5	90.8
9428.2	70°	6125.7	2084.4	236.8	165.9	131.9	116.3	124.8	126.2	102.1	73.7
7236.0	72.5°	4490.7	1230.8	165.9	123.4	96.4	80.8	102.1	104.9	82.2	55.3
4353.2	75°	2559.5	584.2	124.8	89.3	59.6	56.7	79.4	79.4	56.7	36.9
1884.5	77.5°	1074.8	243.9	87.9	58.1	34.0	32.6	53.9	49.6	28.4	17.0
459.4	80°	310.5	109.2	46.8	28.4	14.2	12.8	21.3	15.6	7.1	2.8
174.4	82.5°	121.9	48.2	18.4	11.3	5.7	5.7	2.8	0.0	0.0	0.0
99.3	85°	72.3	19.9	8.5	4.3	1.4	0.0	0.0	0.0	0.0	0.0
21.3	87.5°	18.4	4.3	2.8	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°
2460.2
2443.2
2338.3
2039.1
1619.3
1263.4
1057.8
914.6
823.8
758.6
693.4
626.7
564.4
510.5
439.6
380.0
321.9
290.7
272.3
258.1
245.3
232.5
219.8
204.2
178.7
140.4
103.5
86.5
70.9
52.5
34.0
17.0
2.8
0.0
0.0
0.0
0.0

F REPORT)