

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: P947428

Luminaire Tested: **GALN-SB2D-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16454 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

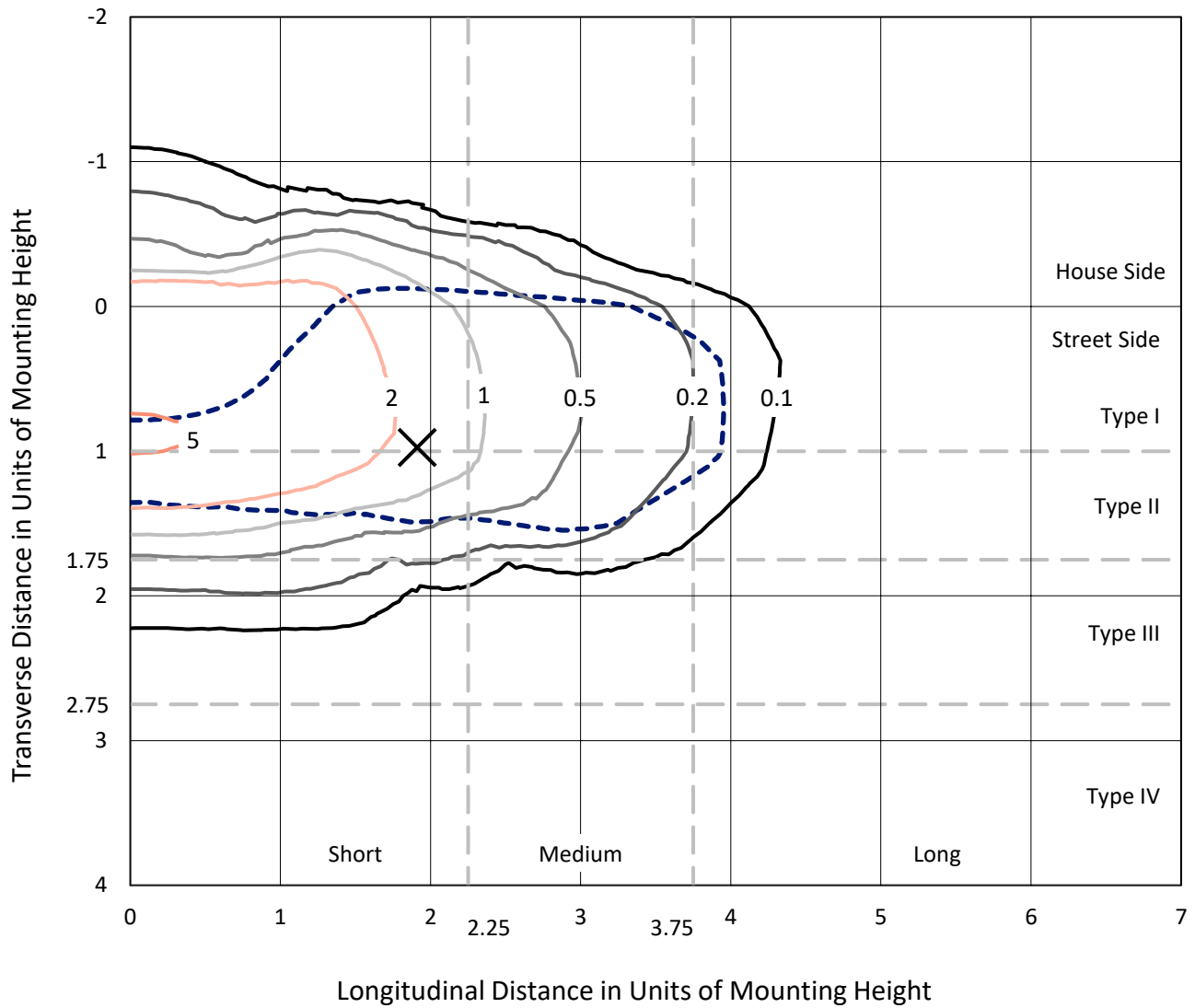
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947428
 CATALOG NUMBER: GALN-SB2D-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

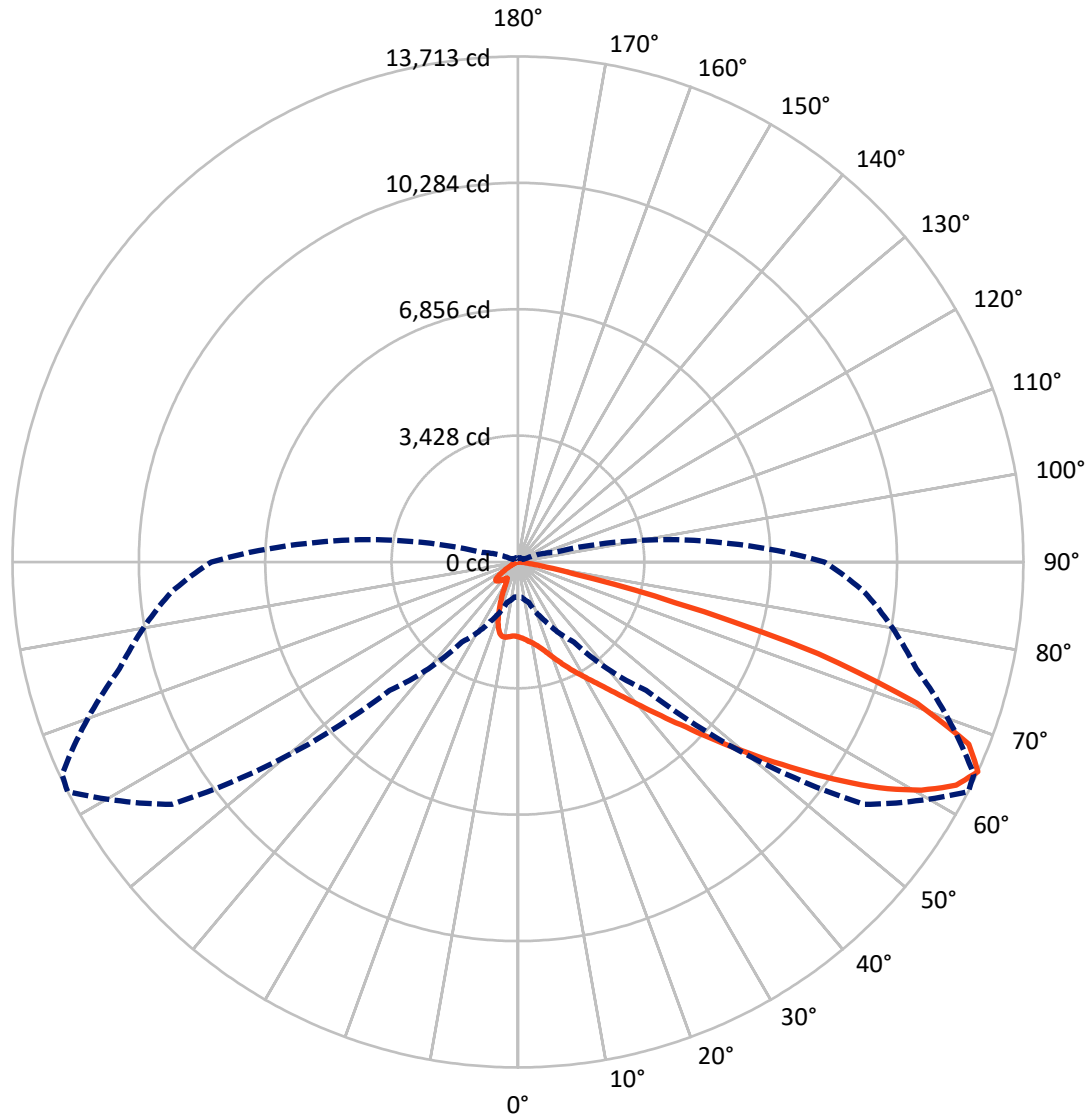
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P947428
CATALOG NUMBER: GALN-SB2D-740-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P947428
 CATALOG NUMBER: GALN-SB2D-740-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2418.6	0.0	2418.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14035.4	0.0	14035.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	16454.0	0.0	16454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	1.2
10°-20°	530.9	3.2
20°-30°	924.4	5.6
30°-40°	1666.1	10.1
40°-50°	3304.5	20.1
50°-60°	4501.2	27.4
60°-70°	3592.9	21.8
70°-80°	1625.8	9.9
80°-90°	116.9	0.7
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°	16454.0	100.0
0°-180°	16454.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947428

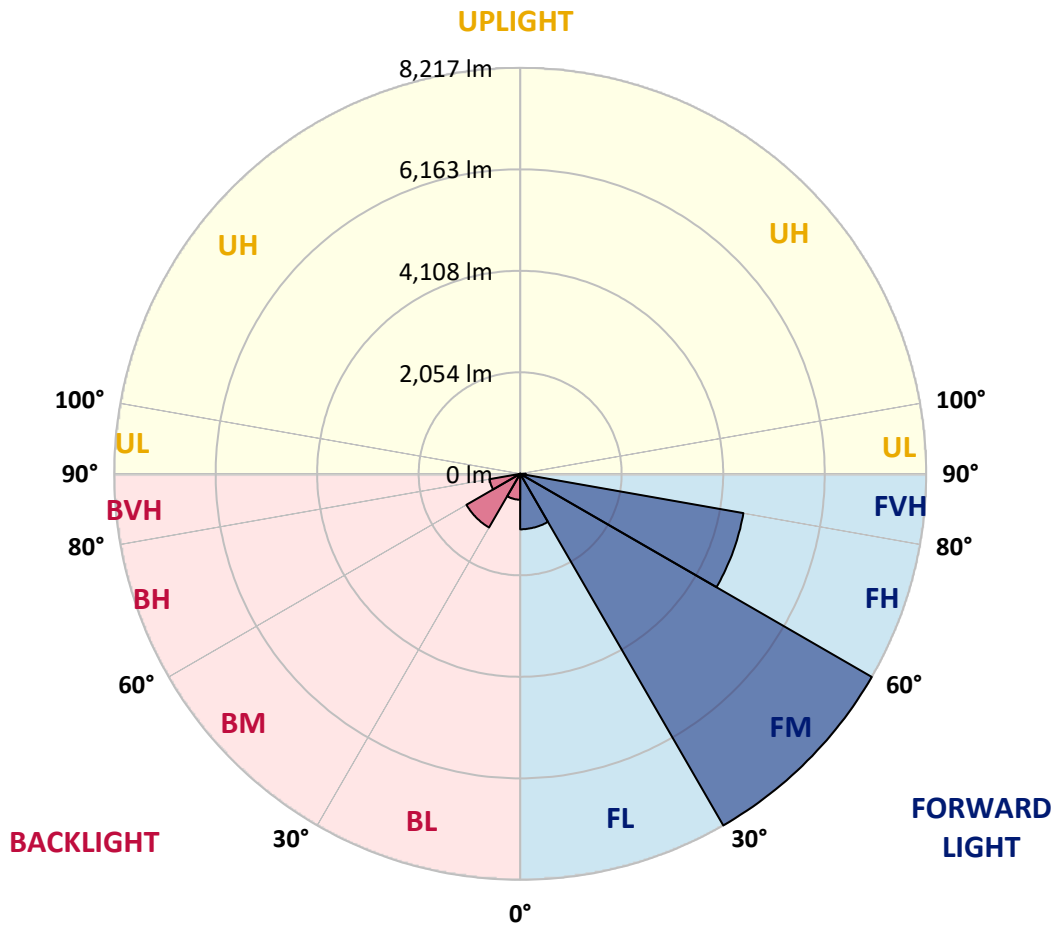
CATALOG NUMBER: GALN-SB2D-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.2	6.8			
FM (30°-60°)	8216.7	49.9			
FH (60°-80°)	4587.3	27.9			G2/5000
FVH (80°-90°)	108.2	0.7			G2/225
BL (0°-30°)	523.4	3.2	B2/1000		
BM (30°-60°)	1255.1	7.6	B2/2500		
BH (60°-80°)	631.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P947428

CATALOG NUMBER: GALN-SB2D-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7
2.5°	2078.3	2072.6	2080.5	2077.1	2074.9	2070.4	2068.1	2065.8	2061.3	2057.9
5°	2083.9	2080.5	2088.5	2095.3	2102.0	2108.8	2112.2	2116.8	2112.2	2103.2
7.5°	2036.4	2034.1	2051.1	2071.5	2102.0	2128.1	2156.4	2172.2	2173.4	2170.0
10°	2033.0	2027.3	2044.3	2069.2	2108.8	2155.2	2205.1	2239.0	2243.5	2258.3
12.5°	2086.2	2080.5	2104.3	2131.5	2172.2	2220.9	2282.0	2329.6	2336.4	2356.7
15°	2175.6	2167.7	2194.9	2230.0	2282.0	2337.5	2402.0	2445.0	2450.7	2475.6
17.5°	2279.8	2271.8	2303.5	2340.9	2397.5	2473.3	2548.0	2595.6	2602.4	2618.2
20°	2413.3	2403.1	2428.1	2462.0	2522.0	2612.6	2702.0	2769.9	2768.8	2768.8
22.5°	2568.4	2552.6	2574.1	2601.2	2657.8	2767.6	2886.5	2966.9	2966.9	2935.2
25°	2734.8	2719.0	2742.7	2767.6	2817.4	2942.0	3081.2	3180.8	3185.3	3131.0
27.5°	2943.1	2922.7	2940.8	2970.3	2999.7	3126.5	3291.7	3407.2	3409.5	3325.7
30°	3343.8	3286.1	3229.5	3197.8	3211.4	3337.0	3513.6	3641.5	3652.8	3537.4
32.5°	4077.3	4066.0	3866.8	3606.4	3470.6	3563.4	3761.5	3915.4	3922.2	3774.0
35°	5217.2	5203.6	4883.3	4387.5	3944.9	3866.8	4062.6	4244.8	4240.3	4072.8
37.5°	6577.8	6565.4	6143.1	5479.8	4763.3	4325.2	4450.9	4642.2	4670.5	4450.9
40°	7740.3	7693.9	7426.8	6787.2	5850.0	5085.9	5003.3	5130.0	5159.5	4899.1
42.5°	8621.0	8581.4	8445.5	8046.0	7165.3	6211.1	5654.1	5702.8	5735.6	5423.2
45°	9077.2	9068.1	9122.5	9085.1	8505.5	7592.0	6584.6	6382.0	6394.4	6003.9
47.5°	9141.7	9137.2	9385.1	9736.0	9657.9	9149.6	7778.8	7228.7	7184.5	6659.3
50°	8761.4	8752.3	9227.7	9885.4	10427.6	10458.2	9134.9	8182.9	8085.6	7337.4
52.5°	7546.8	7544.5	8325.6	9420.2	10698.1	11603.7	10475.1	9231.1	9068.1	8055.0
55°	5806.9	5848.8	6744.2	8038.0	10204.6	12155.0	11678.4	10394.8	10144.6	8777.2
57.5°	4113.5	4174.7	5059.9	6212.2	8674.2	11829.0	12492.3	11560.7	11291.3	9497.1
60°	2209.6	2263.9	3150.2	4525.6	6453.3	10613.2	12921.3	12572.7	12318.0	10180.8
62.5°	1316.5	1334.6	1701.3	2921.6	4364.8	8108.2	12739.1	13343.5	13134.1	10754.7
65°	945.2	948.6	1133.1	1784.0	2649.9	4926.3	11461.1	13712.6	13648.0	11187.2
67.5°	795.8	793.5	870.5	1185.2	1805.5	2467.7	8784.0	13190.7	13464.7	11461.1
70°	682.6	686.0	776.5	868.2	1357.2	1396.8	4367.1	11484.9	12068.9	11533.5
72.5°	508.2	519.6	603.3	791.2	1024.4	961.0	1507.8	8515.7	9571.8	10866.8
75°	358.8	364.5	424.5	665.6	764.1	699.6	769.7	4402.2	5756.0	8331.2
77.5°	276.2	286.4	321.5	465.2	752.8	491.3	470.9	1523.6	2340.9	5032.7
80°	149.4	167.5	232.1	336.2	528.6	347.5	233.2	606.7	793.5	2353.3
82.5°	77.0	86.0	161.9	242.2	301.1	303.4	115.5	252.4	327.1	726.7
85°	30.6	37.4	108.7	133.6	155.1	149.4	52.1	101.9	117.7	201.5
87.5°	6.8	11.3	39.6	30.6	29.4	31.7	12.5	23.8	22.6	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947428
 CATALOG NUMBER: GALN-SB2D-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2030.7	0°	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7	2030.7
2044.3	2.5°	2043.2	2038.7	2026.2	2012.6	1996.8	1987.7	1982.1	1980.9	1973.0	1967.3
2089.6	5°	2077.1	2072.6	2048.8	2020.5	1990.0	1966.2	1943.6	1923.2	1893.8	1888.1
2155.2	7.5°	2145.1	2132.6	2094.1	2055.6	1997.9	1928.9	1845.1	1748.9	1662.8	1636.8
2242.4	10°	2228.8	2211.8	2163.2	2095.3	1967.3	1779.4	1576.8	1388.9	1239.5	1197.6
2345.4	12.5°	2323.9	2309.2	2244.7	2119.0	1839.4	1498.7	1188.6	955.4	810.5	774.3
2455.2	15°	2437.1	2415.6	2326.2	2082.8	1610.8	1138.8	816.1	678.0	626.0	619.2
2580.9	17.5°	2557.1	2522.0	2398.6	1952.6	1302.9	809.4	630.5	590.9	568.2	561.5
2707.6	20°	2666.9	2621.6	2441.6	1755.7	973.5	630.5	564.8	538.8	518.4	510.5
2834.4	22.5°	2776.7	2712.2	2441.6	1487.4	730.1	559.2	518.4	494.7	470.9	460.7
2970.3	25°	2891.0	2805.0	2398.6	1188.6	587.5	512.8	474.3	448.3	427.9	415.4
3099.3	27.5°	3002.0	2883.1	2300.1	905.6	523.0	472.0	433.5	408.6	389.4	380.3
3239.7	30°	3107.2	2960.1	2162.0	687.1	481.1	432.4	396.2	374.7	355.4	346.4
3421.9	32.5°	3249.9	3057.4	2014.9	563.7	444.9	395.1	362.2	341.9	324.9	318.1
3658.5	35°	3447.9	3201.2	1888.1	553.5	414.3	364.5	331.7	312.4	295.4	289.8
3964.1	37.5°	3728.7	3433.2	1821.3	621.4	389.4	337.3	306.8	286.4	270.5	266.0
4352.4	40°	4075.1	3747.9	1857.5	689.4	372.4	313.6	284.1	263.7	250.2	244.5
4798.4	42.5°	4486.0	4136.2	2057.9	741.4	361.1	293.2	262.6	240.0	230.9	228.7
5304.4	45°	4958.0	4562.9	2364.7	796.9	343.0	273.9	241.1	224.1	217.3	216.2
5854.5	47.5°	5494.5	5031.6	2720.1	865.9	324.9	255.8	224.1	212.8	207.1	204.9
6428.4	50°	6026.5	5503.6	3085.7	904.4	310.2	238.8	210.5	201.5	197.0	195.8
7035.1	52.5°	6583.5	5989.2	3381.2	868.2	297.7	225.3	199.2	192.4	187.9	186.8
7594.3	55°	7114.4	6382.0	3432.1	736.9	272.8	211.7	186.8	183.4	177.7	177.7
8161.4	57.5°	7571.7	6578.9	3072.1	541.1	247.9	191.3	174.3	170.9	166.4	165.3
8673.1	60°	7991.6	6522.3	2371.5	364.5	220.7	170.9	158.5	156.2	151.7	146.0
9117.9	62.5°	8228.2	6273.3	1622.1	237.7	193.6	149.4	140.4	139.2	129.0	117.7
9447.3	65°	8317.6	5761.7	1012.0	173.2	161.9	127.9	121.1	118.9	104.1	91.7
9634.1	67.5°	8239.5	4919.5	510.5	137.0	127.9	106.4	99.6	99.6	89.4	78.1
9622.8	70°	7927.1	3687.9	215.1	109.8	98.5	81.5	81.5	86.0	75.8	63.4
9123.6	72.5°	7249.1	2481.3	114.3	83.8	73.6	57.7	66.8	70.2	60.0	47.5
7467.5	75°	5762.8	1513.4	79.2	62.3	46.4	40.8	50.9	53.2	40.8	31.7
5119.9	77.5°	3941.5	869.3	53.2	39.6	29.4	23.8	35.1	32.8	21.5	14.7
1974.1	80°	1730.8	362.2	30.6	18.1	11.3	9.1	12.5	9.1	6.8	4.5
270.5	82.5°	202.6	84.9	11.3	6.8	4.5	2.3	1.1	0.0	0.0	0.0
82.6	85°	41.9	10.2	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
14.7	87.5°	7.9	2.3	1.1	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°
2030.7
1973.0
1885.8
1624.4
1181.8
764.1
612.4
558.1
506.0
455.0
410.9
380.3
347.5
318.1
289.8
264.9
243.4
228.7
215.1
204.9
195.8
186.8
176.6
164.1
144.9
115.5
90.6
77.0
62.3
47.5
30.6
15.8
4.5
0.0
0.0
0.0
0.0

F REPORT)