

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: P951147

Luminaire Tested: **GALN-SB5B-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22652 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

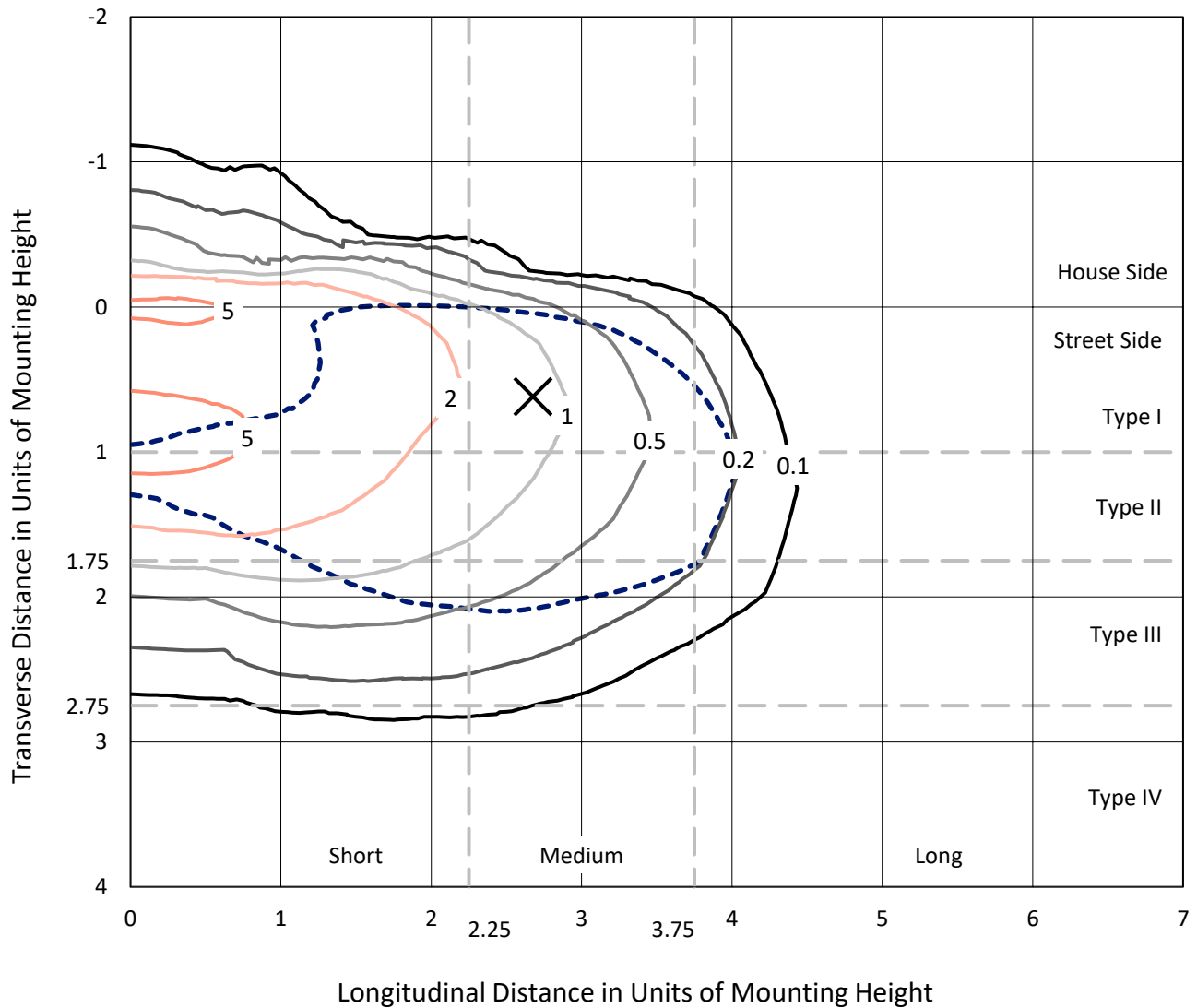
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951147
 CATALOG NUMBER: GALN-SB5B-850-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

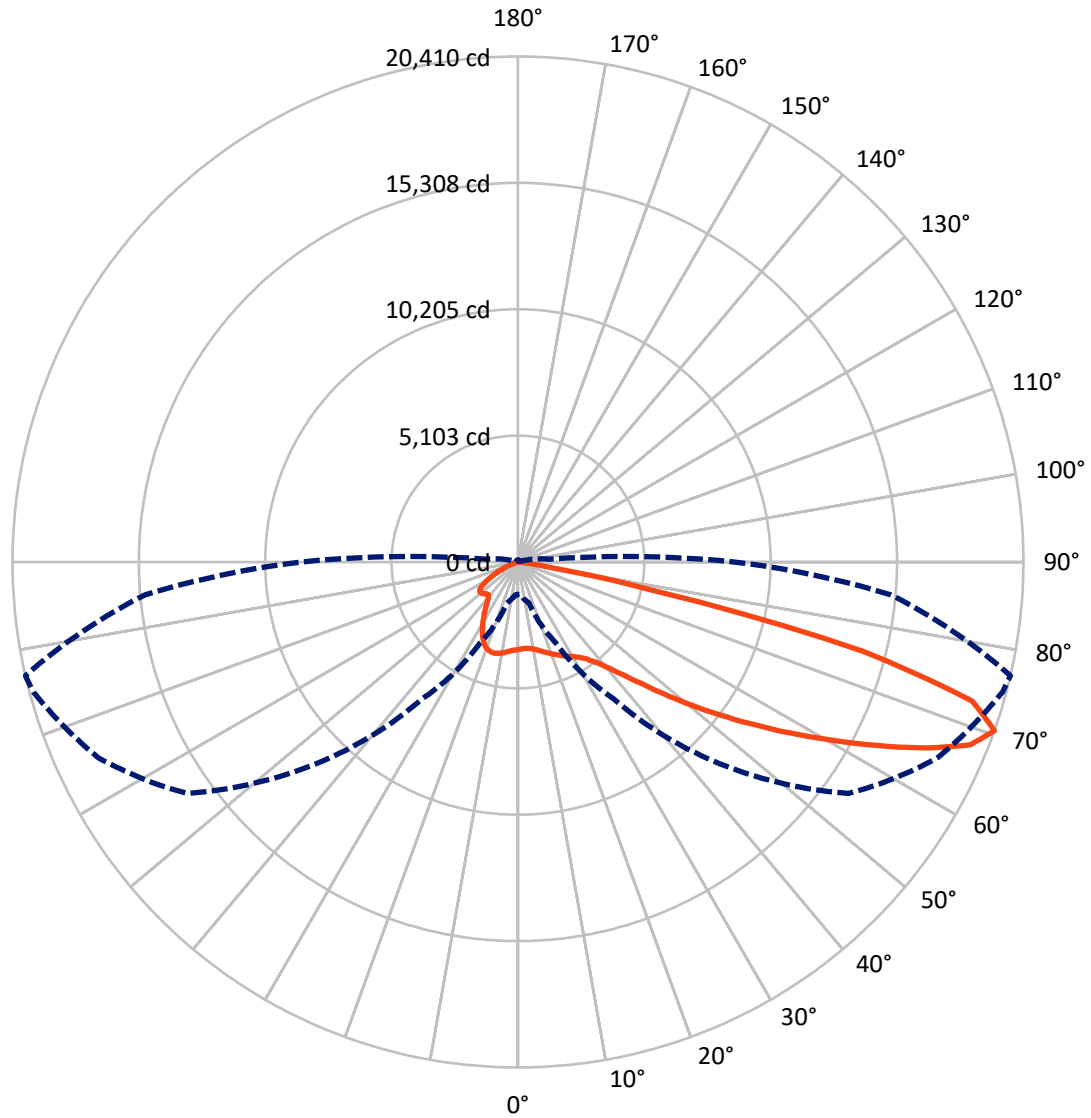
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P951147
CATALOG NUMBER: GALN-SB5B-850-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P951147
 CATALOG NUMBER: GALN-SB5B-850-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.8	0.0	2387.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20264.2	0.0	20264.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	22652.0	0.0	22652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.3
10°-20°	722.9	3.2
20°-30°	1118.1	4.9
30°-40°	2028.8	9.0
40°-50°	3829.7	16.9
50°-60°	5533.6	24.4
60°-70°	5890.4	26.0
70°-80°	3121.5	13.8
80°-90°	102.5	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°	22652.0	100.0
0°-180°	22652.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951147

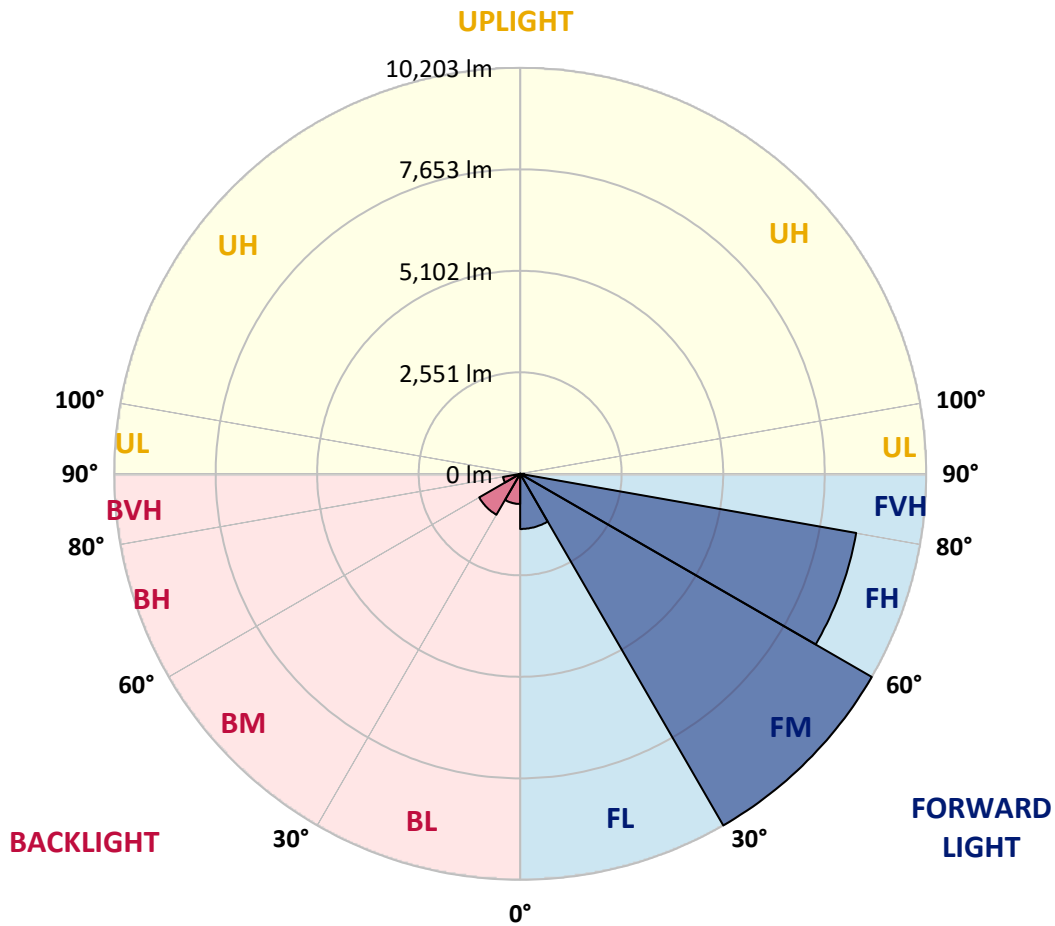
CATALOG NUMBER: GALN-SB5B-850-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.8	6.1			
FM (30°-60°)	10203.5	45.0			
FH (60°-80°)	8574.1	37.9			G4/12000
FVH (80°-90°)	99.7	0.4			G1/100
BL (0°-30°)	758.7	3.3	B2/1000		
BM (30°-60°)	1188.7	5.2	B2/2500		
BH (60°-80°)	437.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



REPORT NUMBER: P951147
 CATALOG NUMBER: GALN-SB5B-850-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3
2.5°	3317.3	3347.3	3343.0	3363.1	3370.2	3398.8	3427.4	3466.1	3509.0	3507.6
5°	3129.9	3159.9	3167.1	3194.3	3228.6	3273.0	3331.6	3408.9	3489.0	3501.8
7.5°	2908.2	2939.7	2958.2	3012.6	3075.5	3167.1	3262.9	3375.9	3509.0	3527.6
10°	2686.5	2715.1	2739.4	2816.6	2916.8	3052.7	3208.6	3371.7	3550.5	3577.6
12.5°	2549.1	2576.3	2603.5	2670.7	2795.2	2961.1	3172.8	3391.7	3619.1	3657.8
15°	2500.5	2524.8	2546.3	2606.3	2722.2	2911.0	3165.7	3433.2	3706.4	3757.9
17.5°	2507.6	2520.5	2534.8	2580.6	2693.6	2888.2	3178.5	3504.7	3809.4	3855.2
20°	2549.1	2556.3	2557.7	2589.2	2689.3	2885.3	3204.3	3573.4	3906.7	3968.2
22.5°	2602.1	2604.9	2602.1	2623.5	2716.5	2906.7	3238.6	3656.3	4015.4	4072.6
25°	2849.5	2795.2	2726.5	2685.0	2762.3	2948.2	3290.1	3767.9	4134.1	4189.9
27.5°	3617.7	3461.8	3215.7	2939.7	2856.7	3008.3	3361.6	3880.9	4254.3	4304.3
30°	4865.1	4660.5	4242.8	3620.6	3159.9	3134.2	3454.6	3993.9	4381.6	4435.9
32.5°	6115.3	6065.3	5583.2	4722.0	3842.3	3414.6	3609.1	4147.0	4550.4	4593.3
35°	7379.9	7278.3	6883.5	6032.4	4893.7	3985.3	3866.6	4347.2	4772.1	4820.7
37.5°	8348.3	8286.8	8042.2	7341.3	6141.1	4866.5	4307.2	4657.7	5094.0	5148.3
40°	9203.8	9175.1	9092.2	8630.1	7535.8	6019.5	4992.4	5138.3	5540.3	5604.6
42.5°	9876.1	9943.3	9990.5	9861.8	8973.4	7335.5	5913.6	5813.5	6162.5	6228.3
45°	10564.1	10587.0	10777.3	10963.3	10401.1	8711.7	6952.2	6604.6	6936.4	7018.0
47.5°	11006.2	11097.7	11432.5	11760.0	11601.2	10076.4	8067.9	7538.7	7833.3	7986.4
50°	11039.1	11212.2	11672.8	12243.5	12475.3	11375.2	9281.0	8602.9	8916.2	9085.0
52.5°	10491.2	10760.1	11473.9	12309.3	12947.3	12475.3	10535.5	9667.2	10069.2	10289.5
55°	8043.6	8395.5	10725.8	11951.7	12965.9	13309.3	11757.2	10775.9	11353.8	11602.7
57.5°	7008.0	7185.3	8432.7	11330.9	12621.2	13645.4	12861.5	11831.6	12751.4	13060.3
60°	5830.7	6063.8	7072.3	10315.2	12153.4	13678.3	13837.1	13193.4	14266.2	14613.9
62.5°	3962.4	4215.6	5218.4	8570.0	11514.0	13662.6	14636.7	14595.3	15949.9	16323.3
65°	2454.7	2613.5	3274.4	6997.9	10619.9	13679.7	15473.6	16297.5	17726.6	18105.7
67.5°	1939.7	2012.7	2357.4	5372.9	9079.3	13293.5	16309.0	17898.3	19398.8	19699.2
70°	1303.2	1347.5	1715.2	3602.0	6754.8	11511.1	16293.2	18702.2	20260.0	20410.2
72.5°	686.6	721.0	1002.8	1667.9	4079.7	8182.4	13734.1	17740.9	19403.1	19177.1
75°	343.3	400.5	675.2	846.8	1742.3	4563.3	8528.6	13987.3	15271.9	14396.4
77.5°	260.3	314.7	557.9	557.9	606.5	1536.3	3612.0	7628.8	7036.6	5859.3
80°	165.9	214.6	487.8	422.0	253.2	390.5	941.3	2137.1	1494.9	1137.2
82.5°	97.3	140.2	406.3	278.9	141.6	144.5	266.1	454.9	387.7	301.8
85°	38.6	91.6	278.9	110.1	55.8	35.8	80.1	97.3	80.1	60.1
87.5°	0.0	21.5	48.6	0.0	4.3	2.9	5.7	7.2	7.2	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951147
 CATALOG NUMBER: GALN-SB5B-850-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3533.3	0°	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3	3533.3
3536.2	2.5°	3549.0	3551.9	3560.5	3561.9	3541.9	3516.1	3506.1	3501.8	3484.7	3483.2
3559.1	5°	3592.0	3604.8	3592.0	3554.8	3466.1	3341.6	3247.2	3170.0	3099.9	3078.4
3637.7	7.5°	3677.8	3690.7	3652.0	3506.1	3283.0	3035.5	2812.3	2655.0	2513.4	2460.4
3733.6	10°	3800.8	3818.0	3696.4	3401.7	3006.9	2609.2	2231.6	1965.5	1758.1	1673.7
3863.7	12.5°	3955.3	3962.4	3720.7	3242.9	2647.8	2079.9	1544.9	1260.3	1075.7	1007.1
4021.1	15°	4125.5	4115.5	3723.6	3026.9	2158.6	1470.5	1008.5	828.3	753.9	731.0
4178.5	17.5°	4304.3	4262.9	3666.3	2715.1	1622.2	1005.6	748.1	705.2	692.4	686.6
4334.4	20°	4480.3	4387.3	3561.9	2307.4	1164.4	751.0	679.5	666.6	659.5	656.6
4491.7	22.5°	4640.5	4481.7	3383.1	1833.9	845.4	663.7	642.3	630.8	618.0	612.2
4644.8	25°	4796.4	4536.1	3131.3	1391.9	676.6	620.8	603.7	582.2	565.0	557.9
4809.3	27.5°	4948.1	4570.4	2816.6	1030.0	603.7	580.8	549.3	519.3	506.4	503.5
4985.2	30°	5109.7	4581.8	2459.0	768.2	559.3	530.7	484.9	450.6	443.5	444.9
5222.7	32.5°	5307.1	4599.0	2098.5	629.4	522.1	470.6	416.3	380.5	374.8	380.5
5568.9	35°	5543.1	4633.3	1750.9	579.3	489.2	409.1	350.5	320.4	314.7	319.0
6012.3	37.5°	5863.6	4689.1	1426.2	569.3	462.0	357.6	294.7	270.4	270.4	271.8
6555.9	40°	6289.9	4837.9	1135.8	562.2	447.7	319.0	248.9	238.9	243.2	246.0
7248.3	42.5°	6809.1	5154.0	939.8	553.6	432.0	301.8	226.0	221.7	228.9	231.7
8078.0	45°	7391.3	5554.6	871.2	539.3	417.7	313.3	216.0	210.3	218.9	220.3
9007.8	47.5°	7993.6	5946.5	862.6	523.6	403.4	330.4	213.1	200.3	210.3	211.7
10000.5	50°	8602.9	6202.6	871.2	499.2	380.5	330.4	214.6	190.3	198.8	203.1
11030.5	52.5°	9216.6	6319.9	865.4	446.3	340.5	310.4	214.6	181.7	190.3	193.1
12143.4	55°	9811.7	6297.0	778.2	367.6	289.0	274.7	208.9	174.5	180.2	181.7
13194.8	57.5°	10282.3	5978.0	616.5	286.1	234.6	228.9	190.3	165.9	170.2	168.8
14159.0	60°	10528.4	5277.1	440.6	220.3	184.5	180.2	167.4	154.5	157.4	150.2
14975.8	62.5°	10531.2	4350.1	294.7	174.5	147.3	143.0	143.0	138.8	135.9	121.6
15608.0	65°	10306.7	3321.6	196.0	138.8	118.7	111.6	120.2	118.7	108.7	88.7
15801.2	67.5°	9797.4	2177.2	148.8	108.7	91.6	87.3	95.8	100.1	93.0	74.4
15097.4	70°	8750.3	1267.4	123.0	84.4	68.7	64.4	77.2	85.8	77.2	60.1
12904.4	72.5°	7268.3	683.8	100.1	62.9	47.2	42.9	61.5	70.1	61.5	44.3
8279.7	75°	4716.3	366.2	77.2	41.5	24.3	27.2	45.8	51.5	42.9	28.6
2430.4	77.5°	1583.5	161.6	48.6	20.0	11.4	11.4	27.2	31.5	20.0	10.0
442.0	80°	353.3	67.2	20.0	8.6	4.3	4.3	5.7	5.7	2.9	0.0
135.9	82.5°	115.9	27.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
34.3	85°	44.3	10.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.4	87.5°	17.2	1.4	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

<u>180°</u>
3533.3
3486.1
3065.5
2439.0
1637.9
985.6
731.0
685.2
653.7
610.8
555.0
500.7
444.9
379.1
317.6
270.4
246.0
231.7
221.7
213.1
204.6
193.1
181.7
168.8
148.8
117.3
85.8
73.0
57.2
42.9
25.7
8.6
0.0
0.0
0.0
0.0
0.0

F REPORT)