

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: P950977

Luminaire Tested: **GALN-SB5B-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950977
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-SB5B-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA 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: 21739 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

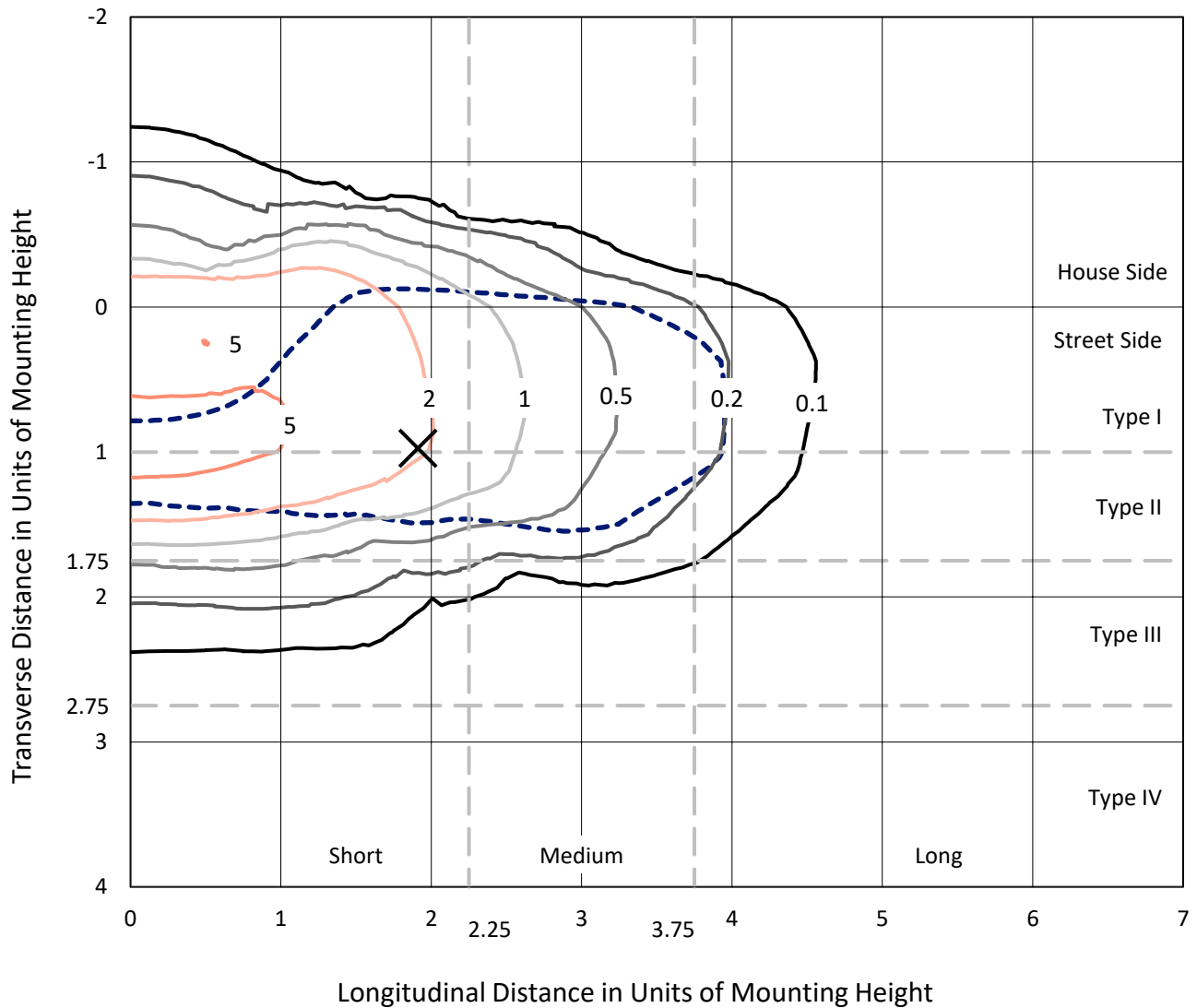
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950977
 CATALOG NUMBER: GALN-SB5B-735-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

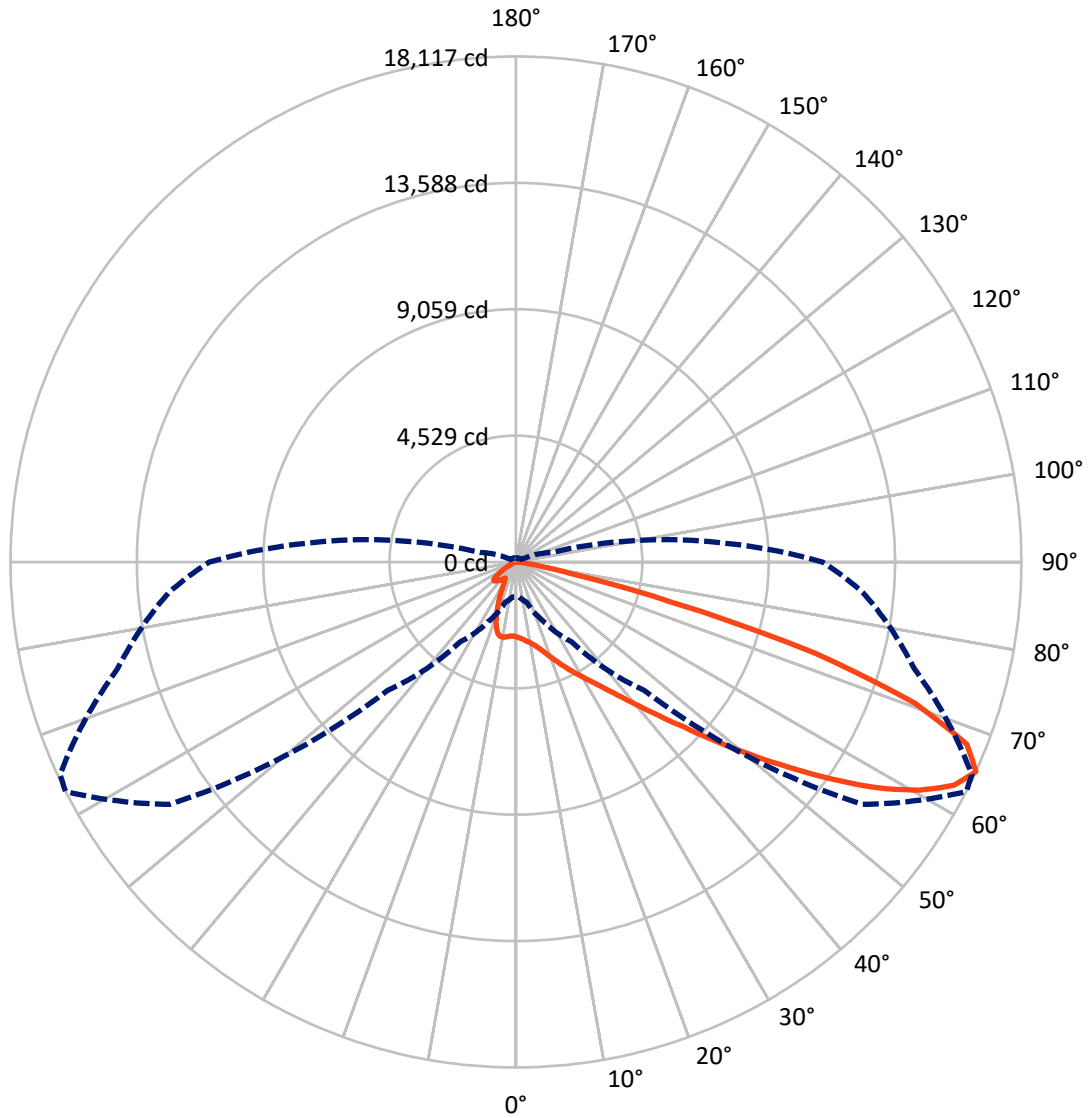
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P950977
CATALOG NUMBER: GALN-SB5B-735-U-T2U-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P950977
 CATALOG NUMBER: GALN-SB5B-735-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3195.5	0.0	3195.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18543.5	0.0	18543.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	21739.0	0.0	21739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	1.2
10°-20°	701.4	3.2
20°-30°	1221.3	5.6
30°-40°	2201.3	10.1
40°-50°	4365.9	20.1
50°-60°	5947.0	27.4
60°-70°	4746.9	21.8
70°-80°	2148.1	9.9
80°-90°	154.4	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°	21739.0	100.0
0°-180°	21739.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950977

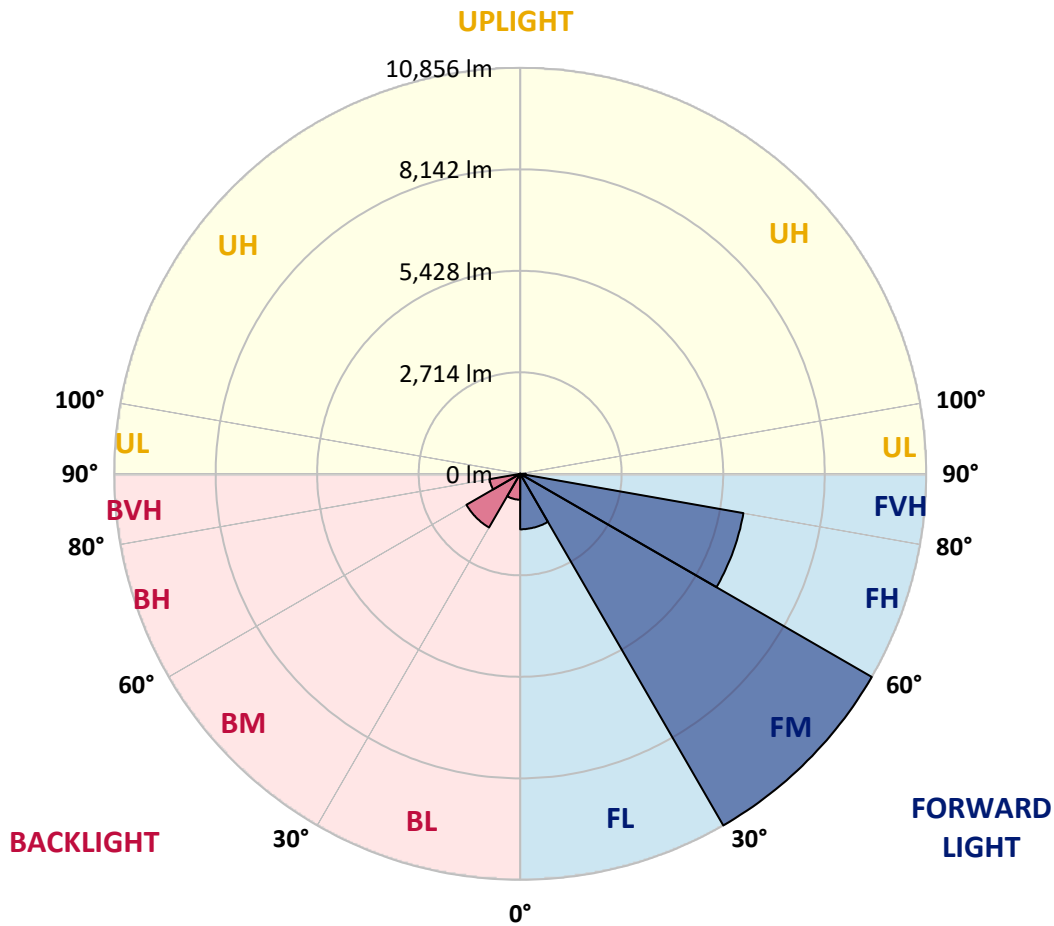
CATALOG NUMBER: GALN-SB5B-735-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.0	6.8			
FM (30°-60°)	10855.9	49.9			
FH (60°-80°)	6060.7	27.9			G3/7500
FVH (80°-90°)	142.9	0.7			G2/225
BL (0°-30°)	691.6	3.2	B2/1000		
BM (30°-60°)	1658.3	7.6	B2/2500		
BH (60°-80°)	834.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



REPORT NUMBER: P950977

CATALOG NUMBER: GALN-SB5B-735-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0
2.5°	2745.8	2738.3	2748.8	2744.3	2741.3	2735.3	2732.4	2729.4	2723.4	2718.9
5°	2753.3	2748.8	2759.3	2768.2	2777.2	2786.2	2790.7	2796.7	2790.7	2778.7
7.5°	2690.5	2687.5	2709.9	2736.8	2777.2	2811.6	2849.0	2869.9	2871.4	2867.0
10°	2686.0	2678.5	2700.9	2733.9	2786.2	2847.5	2913.3	2958.2	2964.2	2983.6
12.5°	2756.3	2748.8	2780.2	2816.1	2869.9	2934.3	3015.0	3077.8	3086.8	3113.7
15°	2874.4	2864.0	2899.9	2946.2	3015.0	3088.3	3173.5	3230.4	3237.8	3270.8
17.5°	3012.0	3001.6	3043.4	3092.8	3167.6	3267.8	3366.5	3429.3	3438.3	3459.2
20°	3188.5	3175.0	3207.9	3252.8	3332.1	3451.7	3569.9	3659.6	3658.1	3658.1
22.5°	3393.4	3372.4	3400.9	3436.8	3511.5	3656.6	3813.6	3919.8	3919.8	3877.9
25°	3613.2	3592.3	3623.7	3656.6	3722.4	3886.9	4070.9	4202.5	4208.5	4136.7
27.5°	3888.4	3861.5	3885.4	3924.3	3963.2	4130.7	4349.0	4501.6	4504.6	4393.9
30°	4417.8	4341.6	4266.8	4224.9	4242.9	4408.9	4642.2	4811.2	4826.1	4673.6
32.5°	5386.9	5372.0	5108.8	4764.8	4585.3	4708.0	4969.7	5173.1	5182.1	4986.1
35°	6893.0	6875.0	6451.8	5796.7	5212.0	5108.8	5367.5	5608.3	5602.3	5381.0
37.5°	8690.6	8674.1	8116.3	7239.9	6293.2	5714.5	5880.5	6133.2	6170.6	5880.5
40°	10226.5	10165.2	9812.3	8967.3	7729.0	6719.5	6610.3	6777.8	6816.7	6472.7
42.5°	11390.1	11337.7	11158.2	10630.3	9466.8	8206.0	7470.2	7534.5	7577.9	7165.1
45°	11992.8	11980.8	12052.6	12003.2	11237.5	10030.6	8699.6	8431.9	8448.3	7932.4
47.5°	12078.0	12072.0	12399.5	12863.2	12760.0	12088.5	10277.4	9550.5	9492.2	8798.3
50°	11575.5	11563.5	12191.7	13060.6	13776.9	13817.3	12069.0	10811.3	10682.7	9694.1
52.5°	9970.8	9967.8	10999.7	12445.9	14134.4	15330.8	13839.8	12196.1	11980.8	10642.3
55°	7672.1	7727.5	8910.4	10619.8	13482.3	16059.1	15429.5	13733.6	13403.1	11596.4
57.5°	5434.8	5515.6	6685.1	8207.5	11460.3	15628.4	16504.8	15274.0	14918.0	12547.6
60°	2919.3	2991.1	4162.1	5979.2	8526.1	14022.2	17071.6	16611.0	16274.5	13450.9
62.5°	1739.3	1763.2	2247.8	3860.0	5766.8	10712.6	16830.8	17629.5	17352.8	14209.1
65°	1248.8	1253.3	1497.0	2357.0	3501.1	6508.6	15142.4	18117.0	18031.8	14780.4
67.5°	1051.4	1048.4	1150.1	1565.8	2385.4	3260.3	11605.4	17427.6	17789.5	15142.4
70°	901.8	906.3	1025.9	1147.1	1793.2	1845.5	5769.8	15173.8	15945.5	15238.1
72.5°	671.5	686.5	797.1	1045.4	1353.5	1269.7	1992.1	11251.0	12646.3	14357.2
75°	474.1	481.6	560.8	879.4	1009.5	924.2	1017.0	5816.2	7604.8	11007.2
77.5°	364.9	378.4	424.7	614.7	994.5	649.1	622.1	2013.0	3092.8	6649.2
80°	197.4	221.3	306.6	444.2	698.4	459.1	308.1	801.6	1048.4	3109.2
82.5°	101.7	113.7	213.9	320.0	397.8	400.8	152.5	333.5	432.2	960.1
85°	40.4	49.4	143.6	176.5	204.9	197.4	68.8	134.6	155.5	266.2
87.5°	9.0	15.0	52.3	40.4	38.9	41.9	16.5	31.4	29.9	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950977
 CATALOG NUMBER: GALN-SB5B-735-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2683.0	0°	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0	2683.0
2700.9	2.5°	2699.5	2693.5	2677.0	2659.1	2638.1	2626.2	2618.7	2617.2	2606.7	2599.3
2760.8	5°	2744.3	2738.3	2706.9	2669.5	2629.2	2597.8	2567.8	2540.9	2502.0	2494.6
2847.5	7.5°	2834.1	2817.6	2766.8	2715.9	2639.6	2548.4	2437.7	2310.6	2197.0	2162.6
2962.7	10°	2944.7	2922.3	2858.0	2768.2	2599.3	2351.0	2083.3	1835.0	1637.6	1582.3
3098.8	12.5°	3070.3	3050.9	2965.7	2799.7	2430.3	1980.1	1570.3	1262.2	1070.8	1023.0
3243.8	15°	3219.9	3191.5	3073.3	2751.8	2128.2	1504.5	1078.3	895.8	827.0	818.1
3409.8	17.5°	3378.4	3332.1	3169.1	2579.8	1721.4	1069.3	833.0	780.7	750.8	741.8
3577.3	20°	3523.5	3463.7	3225.9	2319.6	1286.2	833.0	746.3	711.9	685.0	674.5
3744.8	22.5°	3668.6	3583.3	3225.9	1965.1	964.6	738.8	685.0	653.6	622.1	608.7
3924.3	25°	3819.6	3706.0	3169.1	1570.3	776.2	677.5	626.6	592.2	565.3	548.9
4094.8	27.5°	3966.2	3809.1	3038.9	1196.4	690.9	623.6	572.8	539.9	514.5	502.5
4280.2	30°	4105.3	3910.8	2856.5	907.8	635.6	571.3	523.4	495.0	469.6	457.6
4521.0	32.5°	4293.7	4039.5	2662.1	744.8	587.7	521.9	478.6	451.7	429.2	420.2
4833.6	35°	4555.4	4229.4	2494.6	731.3	547.4	481.6	438.2	412.8	390.3	382.9
5237.4	37.5°	4926.3	4536.0	2406.3	821.1	514.5	445.7	405.3	378.4	357.4	351.5
5750.4	40°	5384.0	4951.7	2454.2	910.8	492.0	414.3	375.4	348.5	330.5	323.0
6339.6	42.5°	5926.8	5464.7	2718.9	979.6	477.1	387.3	347.0	317.1	305.1	302.1
7008.1	45°	6550.5	6028.5	3124.2	1052.9	453.1	361.9	318.6	296.1	287.1	285.6
7734.9	47.5°	7259.4	6647.7	3593.8	1144.1	429.2	338.0	296.1	281.2	273.7	270.7
8493.2	50°	7962.3	7271.3	4076.8	1194.9	409.8	315.6	278.2	266.2	260.2	258.7
9294.8	52.5°	8698.1	7912.9	4467.2	1147.1	393.3	297.6	263.2	254.2	248.3	246.8
10033.6	55°	9399.5	8431.9	4534.5	973.6	360.4	279.7	246.8	242.3	234.8	234.8
10782.9	57.5°	10003.7	8692.1	4058.9	714.9	327.5	252.7	230.3	225.8	219.8	218.3
11458.8	60°	10558.5	8617.3	3133.2	481.6	291.6	225.8	209.4	206.4	200.4	192.9
12046.6	62.5°	10871.1	8288.3	2143.1	314.1	255.7	197.4	185.4	184.0	170.5	155.5
12481.8	65°	10989.2	7612.3	1337.0	228.8	213.9	169.0	160.0	157.0	137.6	121.1
12728.6	67.5°	10886.1	6499.6	674.5	181.0	169.0	140.6	131.6	131.6	118.1	103.2
12713.6	70°	10473.3	4872.5	284.2	145.1	130.1	107.7	107.7	113.7	100.2	83.8
12054.1	72.5°	9577.5	3278.2	151.0	110.7	97.2	76.3	88.2	92.7	79.3	62.8
9866.1	75°	7613.8	1999.5	104.7	82.3	61.3	53.8	67.3	70.3	53.8	41.9
6764.3	77.5°	5207.5	1148.6	70.3	52.3	38.9	31.4	46.4	43.4	28.4	19.4
2608.2	80°	2286.7	478.6	40.4	23.9	15.0	12.0	16.5	12.0	9.0	6.0
357.4	82.5°	267.7	112.2	15.0	9.0	6.0	3.0	1.5	0.0	0.0	0.0
109.2	85°	55.3	13.5	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
19.4	87.5°	10.5	3.0	1.5	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°
2683.0
2606.7
2491.6
2146.1
1561.3
1009.5
809.1
737.3
668.5
601.2
542.9
502.5
459.1
420.2
382.9
350.0
321.5
302.1
284.2
270.7
258.7
246.8
233.3
216.9
191.4
152.5
119.6
101.7
82.3
62.8
40.4
20.9
6.0
0.0
0.0
0.0
0.0

F REPORT)