

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: P957594

Luminaire Tested: **GALN-SB9D-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957594
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-SB9D-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA 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: 46970 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

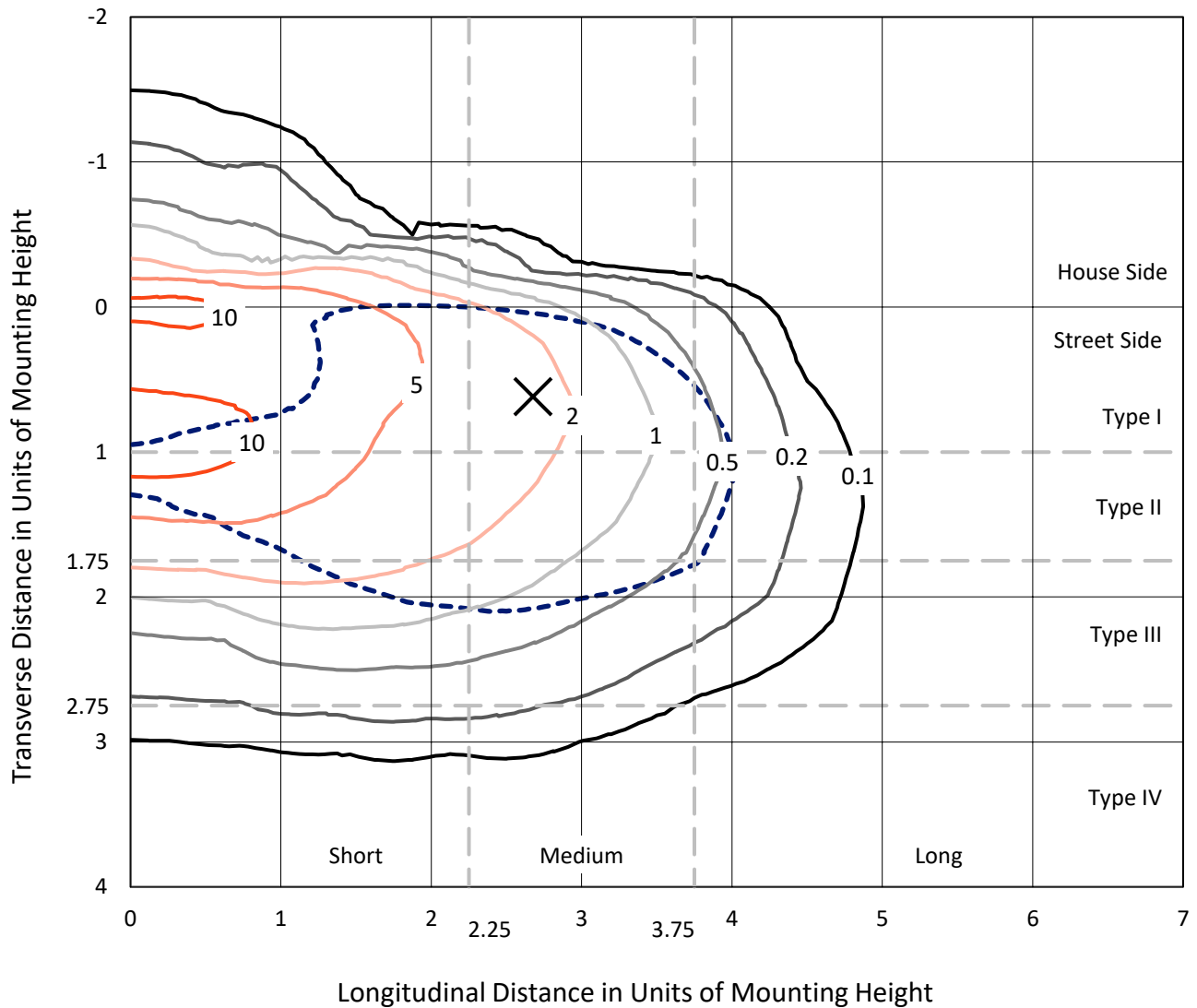
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957594
 CATALOG NUMBER: GALN-SB9D-927-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

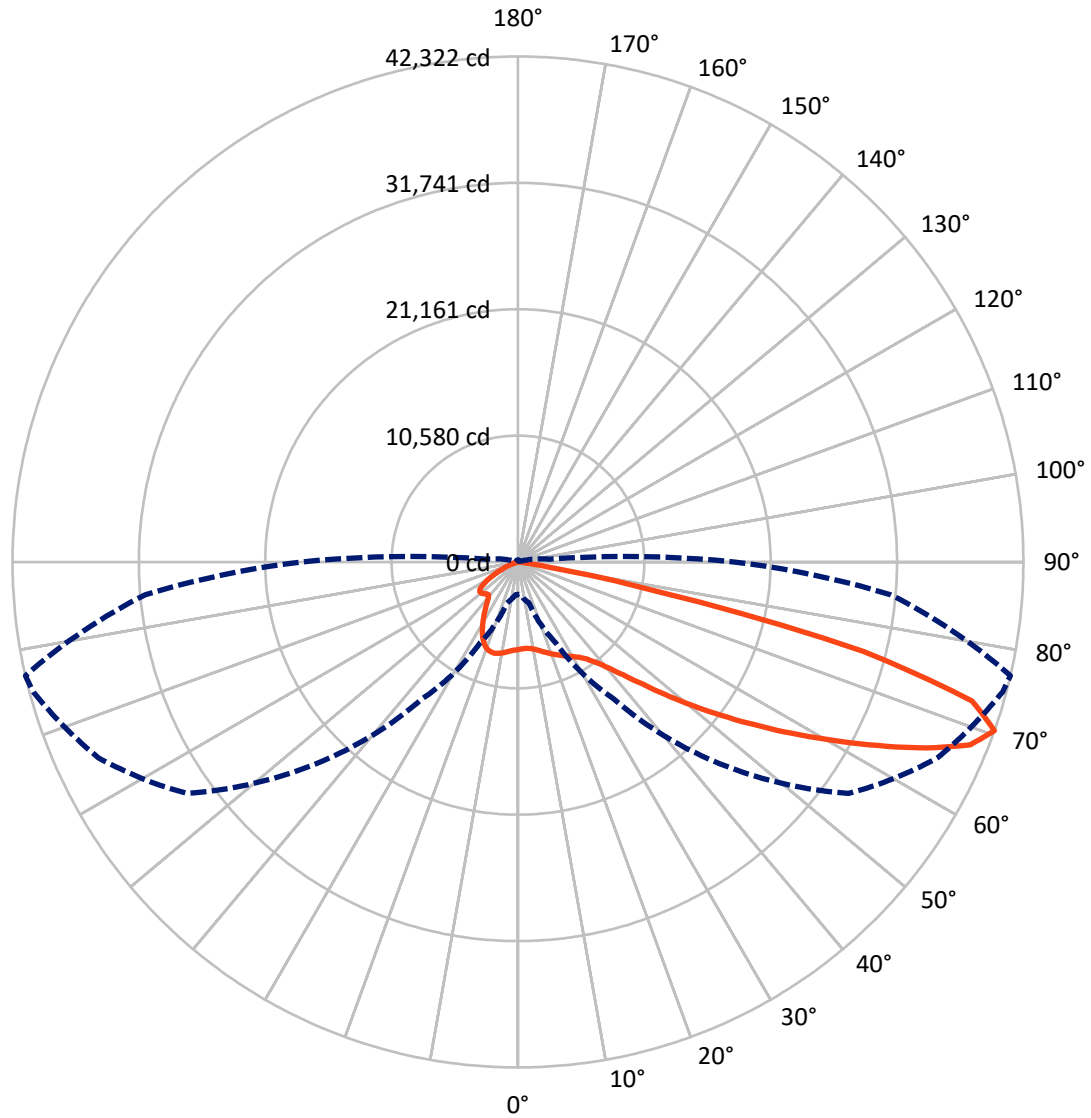
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P957594
CATALOG NUMBER: GALN-SB9D-927-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P957594
 CATALOG NUMBER: GALN-SB9D-927-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4951.3	0.0	4951.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	42018.7	0.0	42018.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	46970.0	0.0	46970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.4	1.3
10°-20°	1498.9	3.2
20°-30°	2318.4	4.9
30°-40°	4206.9	9.0
40°-50°	7941.1	16.9
50°-60°	11474.2	24.4
60°-70°	12214.0	26.0
70°-80°	6472.6	13.8
80°-90°	212.5	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°	46970.0	100.0
0°-180°	46970.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957594

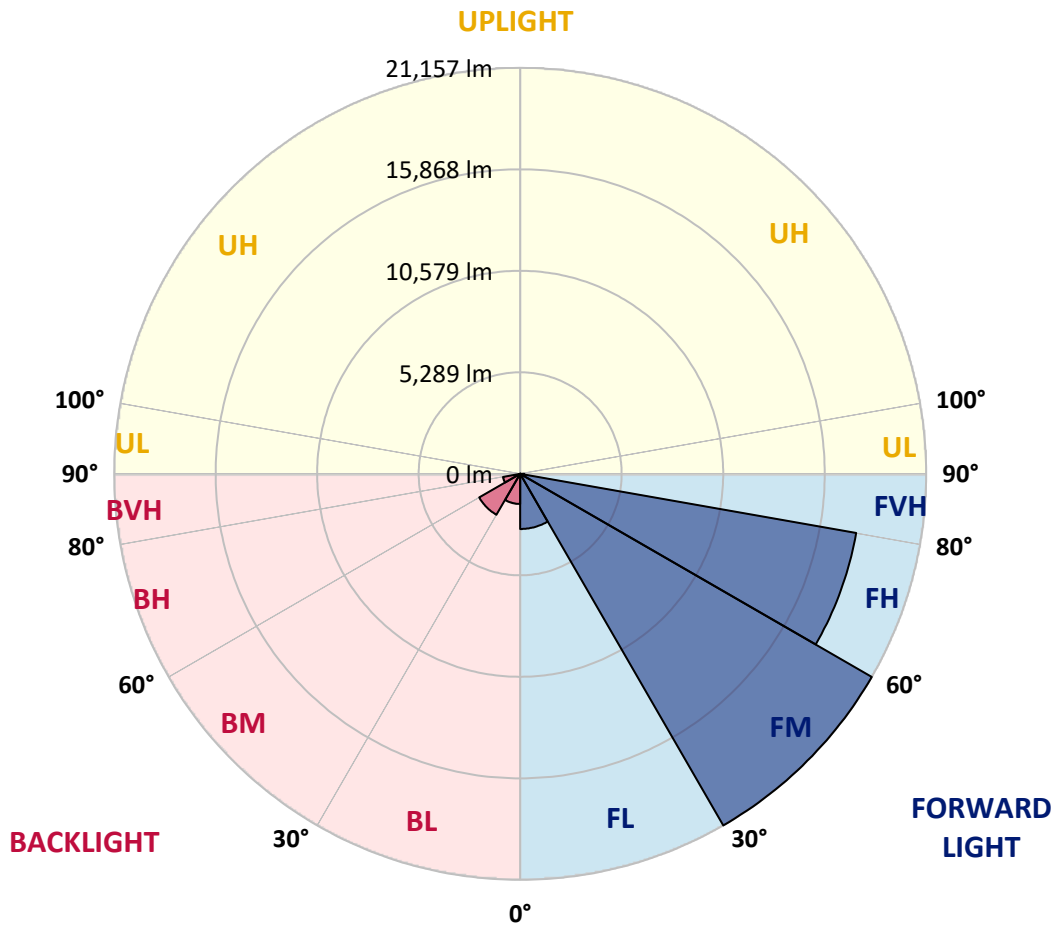
CATALOG NUMBER: GALN-SB9D-927-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2875.7	6.1			
FM (30°-60°)	21157.4	45.0			
FH (60°-80°)	17778.8	37.9			G5
FVH (80°-90°)	206.8	0.4			G2/225
BL (0°-30°)	1573.1	3.3	B3/2500		
BM (30°-60°)	2464.8	5.2	B2/2500		
BH (60°-80°)	907.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P957594

CATALOG NUMBER: GALN-SB9D-927-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5
2.5°	6878.6	6940.9	6932.0	6973.5	6988.3	7047.7	7107.0	7187.1	7276.0	7273.1
5°	6490.0	6552.3	6567.1	6623.5	6694.7	6786.6	6908.2	7068.4	7234.5	7261.2
7.5°	6030.2	6095.5	6134.1	6246.8	6377.3	6567.1	6765.9	7000.2	7276.0	7314.6
10°	5570.5	5629.8	5680.2	5840.4	6048.0	6329.8	6653.1	6991.3	7362.1	7418.4
12.5°	5285.7	5342.1	5398.5	5537.9	5795.9	6140.0	6579.0	7032.8	7504.4	7584.5
15°	5184.9	5235.3	5279.8	5404.4	5644.6	6036.2	6564.2	7118.8	7685.4	7792.2
17.5°	5199.7	5226.4	5256.1	5351.0	5585.3	5988.7	6590.9	7267.1	7898.9	7993.9
20°	5285.7	5300.6	5303.5	5368.8	5576.4	5982.8	6644.2	7409.5	8100.6	8228.2
22.5°	5395.5	5401.4	5395.5	5440.0	5632.8	6027.3	6715.4	7581.6	8326.1	8444.7
25°	5908.6	5795.9	5653.5	5567.5	5727.7	6113.3	6822.2	7812.9	8572.3	8687.9
27.5°	7501.5	7178.2	6668.0	6095.5	5923.5	6237.9	6970.5	8047.3	8821.4	8925.2
30°	10088.0	9663.8	8797.7	7507.4	6552.3	6498.9	7163.3	8281.6	9085.4	9198.1
32.5°	12680.4	12576.6	11577.0	9791.4	7967.2	7080.3	7483.7	8599.0	9435.4	9524.4
35°	15302.5	15091.9	14273.3	12508.4	10147.3	8263.8	8017.6	9014.2	9895.2	9996.0
37.5°	17310.6	17183.1	16675.9	15222.5	12733.8	10091.0	8931.2	9657.9	10562.6	10675.3
40°	19084.4	19025.1	18853.1	17895.0	15625.9	12481.7	10352.0	10654.5	11488.0	11621.5
42.5°	20478.5	20617.9	20715.8	20448.9	18606.9	15210.6	12262.2	12054.6	12778.3	12914.8
45°	21905.3	21952.7	22347.2	22732.8	21567.1	18064.1	14415.6	13694.9	14383.0	14552.1
47.5°	22821.8	23011.6	23705.7	24385.0	24055.7	20893.8	16729.3	15631.8	16242.8	16560.2
50°	22890.0	23248.9	24204.1	25387.6	25868.1	23587.1	19244.6	17838.6	18488.2	18838.2
52.5°	21754.0	22311.6	23791.8	25524.0	26846.9	25868.1	21845.9	20045.5	20879.0	21335.8
55°	16678.8	17408.5	22240.4	24782.5	26885.5	27597.4	24379.1	22344.3	23542.6	24058.7
57.5°	14531.3	14899.1	17485.6	23495.1	26170.6	28294.4	26669.0	24533.3	26440.6	27081.2
60°	12090.2	12573.6	14664.8	21389.1	25200.7	28362.6	28691.9	27357.1	29581.7	30302.5
62.5°	8216.3	8741.3	10820.6	17770.4	23874.8	28330.0	30350.0	30264.0	33072.9	33847.1
65°	5090.0	5419.2	6789.6	14510.6	22020.9	28365.6	32085.2	33793.7	36756.9	37543.0
67.5°	4022.1	4173.4	4888.3	11141.0	18826.4	27564.7	33817.5	37112.9	40224.4	40847.3
70°	2702.2	2794.1	3556.5	7468.8	14006.3	23868.9	33784.8	38779.9	42010.0	42321.5
72.5°	1423.8	1495.0	2079.3	3458.6	8459.6	16966.6	28478.3	36786.6	40233.3	39764.6
75°	711.9	830.5	1400.0	1756.0	3612.8	9462.1	17684.4	29003.3	31667.0	29851.7
77.5°	539.8	652.6	1156.8	1156.8	1257.7	3185.7	7489.6	15818.7	14590.7	12149.5
80°	344.1	444.9	1011.5	875.0	525.0	809.8	1951.7	4431.5	3099.7	2358.1
82.5°	201.7	290.7	842.4	578.4	293.7	299.6	551.7	943.2	803.8	625.9
85°	80.1	189.8	578.4	228.4	115.7	74.2	166.1	201.7	166.1	124.6
87.5°	0.0	44.5	100.9	0.0	8.9	5.9	11.9	14.8	14.8	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957594
 CATALOG NUMBER: GALN-SB9D-927-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7326.5	0°	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5	7326.5
7332.4	2.5°	7359.1	7365.0	7382.8	7385.8	7344.3	7290.9	7270.1	7261.2	7225.6	7222.7
7379.9	5°	7448.1	7474.8	7448.1	7371.0	7187.1	6929.0	6733.2	6573.1	6427.7	6383.2
7543.0	7.5°	7626.1	7652.8	7572.7	7270.1	6807.4	6294.2	5831.5	5505.2	5211.6	5101.8
7741.7	10°	7881.1	7916.7	7664.6	7053.6	6234.9	5410.3	4627.2	4075.5	3645.4	3470.4
8011.7	12.5°	8201.5	8216.3	7715.0	6724.3	5490.4	4312.8	3203.5	2613.2	2230.6	2088.2
8337.9	15°	8554.5	8533.7	7721.0	6276.4	4476.0	3049.2	2091.2	1717.4	1563.2	1515.7
8664.2	17.5°	8925.2	8839.2	7602.3	5629.8	3363.7	2085.2	1551.3	1462.3	1435.6	1423.8
8987.5	20°	9290.1	9097.3	7385.8	4784.5	2414.5	1557.2	1408.9	1382.2	1367.4	1361.5
9313.8	22.5°	9622.3	9293.1	7015.0	3802.6	1753.0	1376.3	1331.8	1308.1	1281.4	1269.5
9631.2	25°	9945.6	9405.8	6493.0	2886.1	1403.0	1287.3	1251.7	1207.2	1171.6	1156.8
9972.3	27.5°	10260.0	9477.0	5840.4	2135.7	1251.7	1204.3	1139.0	1076.7	1050.0	1044.1
10337.1	30°	10595.2	9500.7	5098.9	1592.8	1159.8	1100.5	1005.5	934.3	919.5	922.5
10829.5	32.5°	11004.5	9536.3	4351.4	1305.1	1082.7	975.9	863.2	789.0	777.1	789.0
11547.3	35°	11494.0	9607.5	3630.6	1201.3	1014.4	848.3	726.7	664.4	652.6	661.5
12466.9	37.5°	12158.4	9723.1	2957.3	1180.5	958.1	741.5	611.0	560.6	560.6	563.6
13594.0	40°	13042.3	10031.6	2355.1	1165.7	928.4	661.5	516.1	495.4	504.3	510.2
15029.6	42.5°	14119.0	10687.2	1948.8	1147.9	895.8	625.9	468.7	459.8	474.6	480.5
16750.0	45°	15326.3	11517.7	1806.4	1118.3	866.1	649.6	447.9	436.0	453.8	456.8
18678.1	47.5°	16575.0	12330.4	1788.6	1085.6	836.5	685.2	442.0	415.3	436.0	439.0
20736.6	50°	17838.6	12861.4	1806.4	1035.2	789.0	685.2	444.9	394.5	412.3	421.2
22872.2	52.5°	19111.1	13104.6	1794.5	925.4	706.0	643.7	444.9	376.7	394.5	400.4
25179.9	55°	20345.0	13057.1	1613.6	762.3	599.2	569.5	433.1	361.9	373.7	376.7
27360.1	57.5°	21320.9	12395.7	1278.4	593.2	486.5	474.6	394.5	344.1	353.0	350.0
29359.3	60°	21831.1	10942.2	913.6	456.8	382.6	373.7	347.0	320.3	326.3	311.4
31053.0	62.5°	21837.0	9020.2	611.0	361.9	305.5	296.6	296.6	287.7	281.8	252.1
32364.0	65°	21371.3	6887.5	406.4	287.7	246.2	231.4	249.2	246.2	225.4	183.9
32764.5	67.5°	20315.4	4514.5	308.5	225.4	189.8	180.9	198.7	207.6	192.8	154.2
31305.1	70°	18144.1	2628.0	255.1	175.0	142.4	133.5	160.2	178.0	160.2	124.6
26757.9	72.5°	15071.2	1417.8	207.6	130.5	97.9	89.0	127.5	145.3	127.5	92.0
17168.3	75°	9779.5	759.3	160.2	86.0	50.4	56.4	94.9	106.8	89.0	59.3
5039.5	77.5°	3283.6	335.2	100.9	41.5	23.7	23.7	56.4	65.3	41.5	20.8
916.6	80°	732.6	139.4	41.5	17.8	8.9	8.9	11.9	11.9	5.9	0.0
281.8	82.5°	240.3	56.4	17.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
71.2	85°	92.0	20.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.7	87.5°	35.6	3.0	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>
7326.5
7228.6
6356.5
5057.3
3396.3
2043.7
1515.7
1420.8
1355.5
1266.6
1150.9
1038.2
922.5
786.0
658.5
560.6
510.2
480.5
459.8
442.0
424.2
400.4
376.7
350.0
308.5
243.2
178.0
151.3
<i>118.6</i>
89.0
53.4
17.8
0.0
0.0
0.0
0.0
0.0

F REPORT)