

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: STREETWORKS

Report Number: P477379

Luminaire Tested: **IFLD-S-SA3D-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477379
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

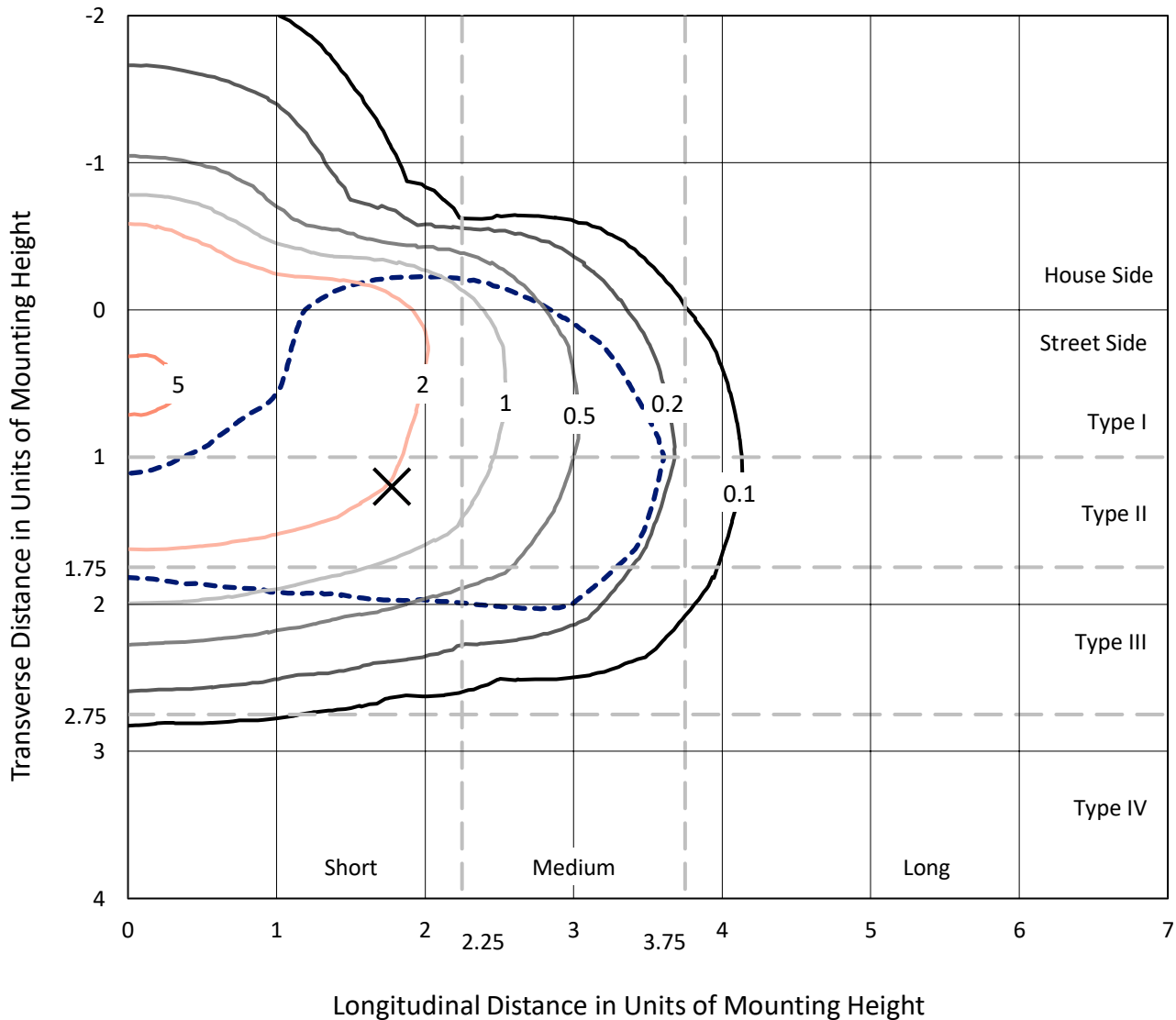
Lumens per Lamp: N/A
Luminaire Lumens: 23738.7 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (A_{in}): 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: P477379
 CATALOG NUMBER: IFLD-S-SA3D-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

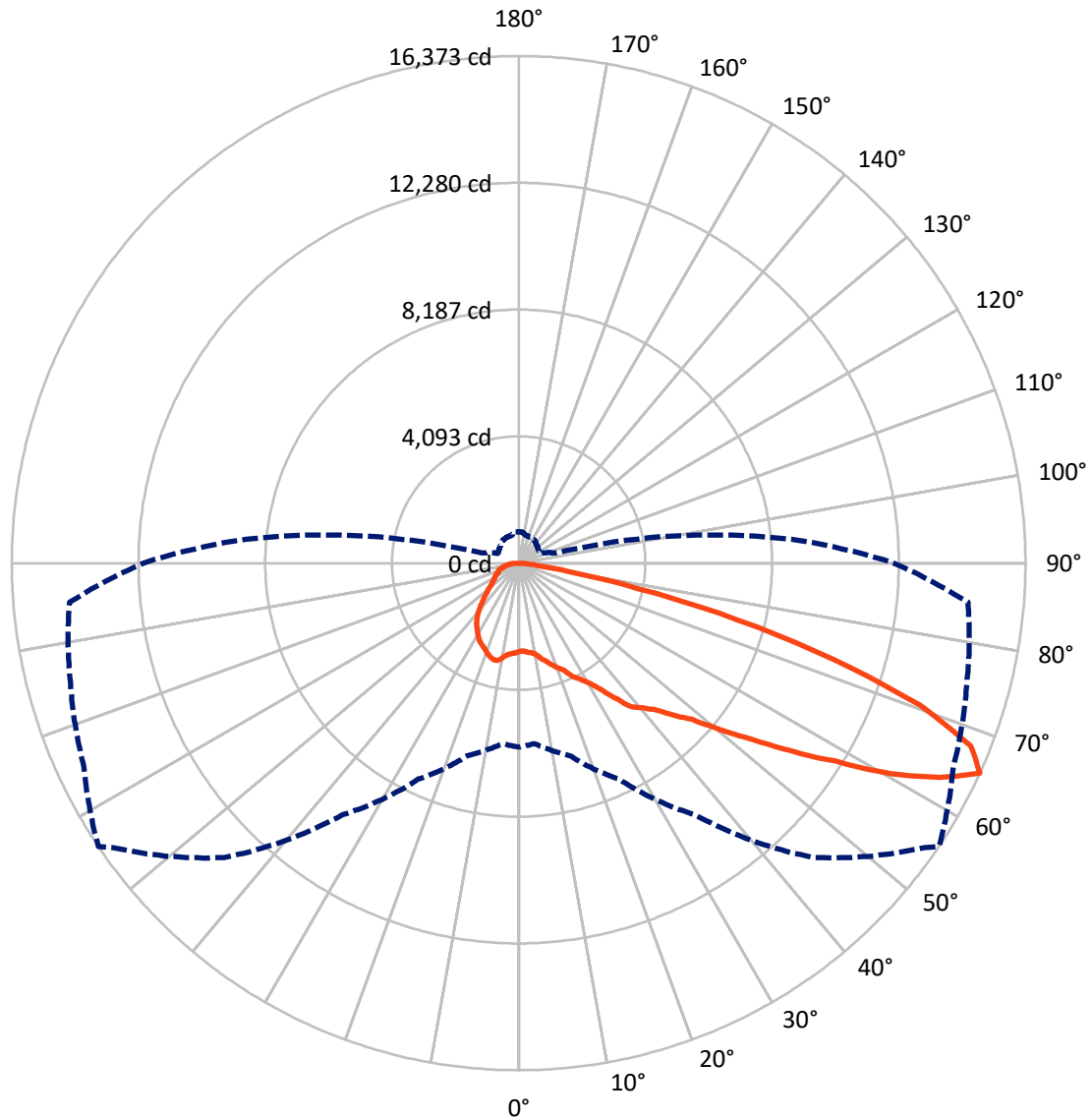
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P477379
CATALOG NUMBER: IFLD-S-SA3D-740-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P477379
 CATALOG NUMBER: IFLD-S-SA3D-740-U-T3

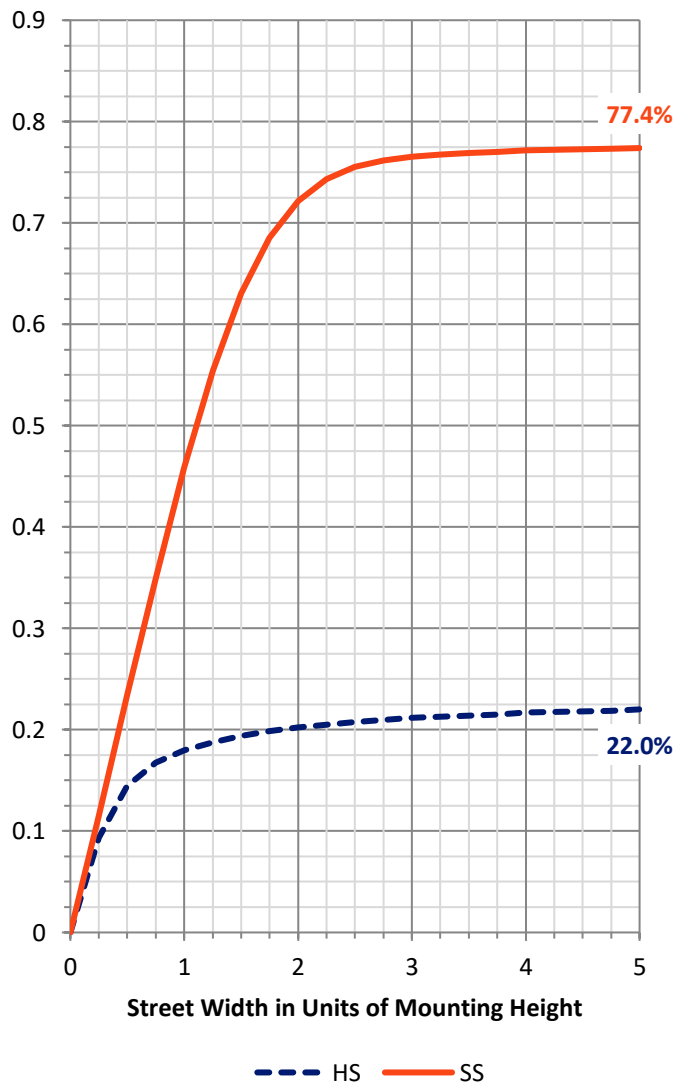
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5323.8	0.0	5323.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18414.8	0.0	18414.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	23738.7	0.0	23738.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	1.2
10°-20°	916.9	3.9
20°-30°	1632.5	6.9
30°-40°	2444.6	10.3
40°-50°	3622.0	15.3
50°-60°	5581.0	23.5
60°-70°	6318.4	26.6
70°-80°	2622.2	11.0
80°-90°	318.6	1.3
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°	23738.7	100.0
0°-180°	23738.7	100.0

Coefficient of Utilization

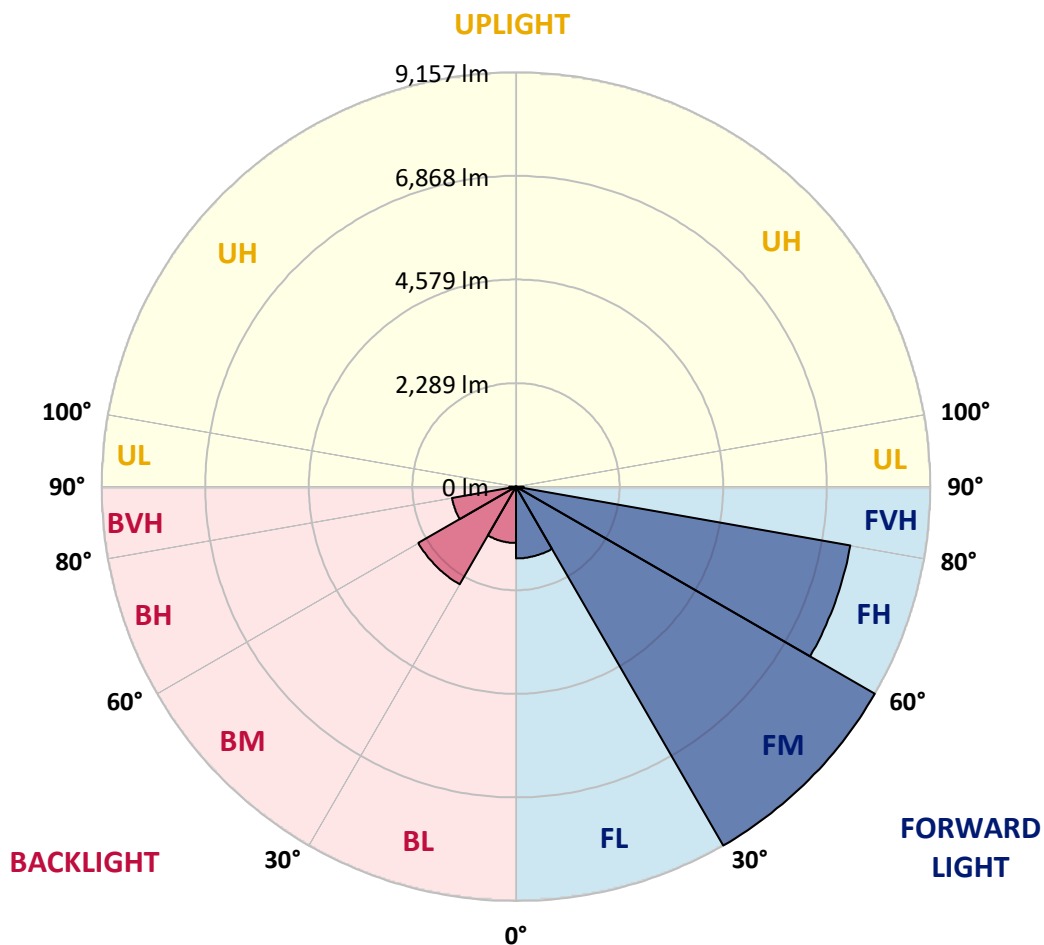


REPORT NUMBER: P477379
 CATALOG NUMBER: IFLD-S-SA3D-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.4	6.7			
FM (30°-60°)	9157.3	38.6			
FH (60°-80°)	7503.0	31.6			G4/12000
FVH (80°-90°)	168.0	0.7			G2/225
BL (0°-30°)	1245.3	5.2	B3/2500		
BM (30°-60°)	2490.4	10.5	B2/2500		
BH (60°-80°)	1437.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	150.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





REPORT NUMBER: P477379
 CATALOG NUMBER: IFLD-S-SA3D-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3
2.5°	2774.8	2789.7	2779.8	2809.6	2834.4	2834.4	2854.3	2839.4	2859.3	2886.6
5°	2866.7	2807.1	2839.4	2854.3	2846.8	2859.3	2839.4	2889.1	2856.8	2908.9
7.5°	2889.1	2911.4	2938.7	2913.9	2936.3	2923.8	2926.3	2918.9	2901.5	2943.7
10°	3053.0	3020.7	3082.8	3045.6	3040.6	3035.6	3025.7	2988.4	3030.7	3033.1
12.5°	3241.8	3212.0	3209.5	3179.7	3219.5	3147.4	3162.3	3142.4	3149.9	3159.8
15°	3378.4	3366.0	3423.2	3388.4	3336.2	3303.9	3338.7	3284.0	3311.4	3306.4
17.5°	3649.2	3646.7	3604.5	3547.4	3517.6	3470.4	3462.9	3440.5	3460.4	3450.5
20°	3838.0	3865.3	3872.8	3805.7	3691.4	3639.3	3626.9	3609.5	3631.8	3624.4
22.5°	4126.2	4083.9	4116.2	3999.5	3957.2	3833.0	3788.3	3763.5	3870.3	3843.0
25°	4310.0	4354.7	4322.4	4282.7	4188.3	4034.3	4002.0	4056.6	4098.8	4069.0
27.5°	4724.8	4680.1	4650.3	4531.1	4469.0	4307.5	4270.2	4250.4	4260.3	4277.7
30°	5040.3	5065.2	4998.1	4913.6	4757.1	4593.2	4506.2	4488.9	4454.1	4424.3
32.5°	5490.0	5452.7	5413.0	5358.3	5224.2	5008.0	4923.6	4859.0	4754.7	4615.5
35°	5706.1	5812.9	5783.1	5636.5	5534.7	5452.7	5427.9	5328.5	5241.6	5022.9
37.5°	6066.3	6111.0	6068.8	6021.6	5974.4	5887.4	5857.6	5884.9	5713.5	5353.3
40°	6299.8	6394.2	6481.1	6349.5	6339.5	6356.9	6173.1	6140.8	5788.1	5599.3
42.5°	6776.8	6816.5	6833.9	6828.9	6886.1	6886.1	6535.8	6466.2	6215.3	6061.3
45°	7407.7	7440.0	7502.1	7546.8	7482.3	7514.5	7015.2	6987.9	6764.3	6734.5
47.5°	7954.2	8031.2	8170.4	8302.0	8386.5	8277.2	7730.7	7536.9	7479.8	7658.6
50°	8431.2	8339.3	8664.7	8798.9	9169.0	9350.3	8520.6	8443.6	8351.7	8694.5
52.5°	8478.4	8602.6	9062.2	9330.5	10093.1	10428.5	9489.4	9457.1	9345.4	9740.3
55°	8816.2	8801.3	9263.4	9844.7	10751.4	11315.3	10751.4	10731.5	10488.1	10863.2
57.5°	8759.1	8910.6	9275.8	10088.1	11345.1	12266.7	12214.6	12077.9	11737.6	12043.1
60°	8565.3	8605.1	9049.7	10080.7	11690.4	13243.0	13794.5	13821.8	13126.2	13369.7
62.5°	7467.3	7559.3	8123.2	9288.2	11444.5	13916.2	15337.1	15240.2	14683.8	14405.6
65°	5939.6	5847.7	6433.9	7693.4	9914.2	13439.2	16012.8	16373.0	15498.6	14989.3
67.5°	3641.8	3619.4	4183.3	5293.7	7417.7	11437.0	15473.8	15754.5	15272.5	14865.1
70°	1875.5	1818.4	2171.1	2953.7	4662.7	8391.5	13466.6	13742.3	14201.9	13332.4
72.5°	874.4	862.0	1050.8	1453.2	2374.8	4933.5	10428.5	10627.2	11596.0	11240.8
75°	514.2	521.7	628.5	760.1	1157.6	2325.2	6920.8	7305.9	8356.7	8100.8
77.5°	385.0	385.0	447.1	529.1	675.7	899.3	3415.7	3925.0	4886.3	4394.5
80°	283.2	288.2	342.8	397.5	469.5	464.5	1356.3	1589.9	2240.7	1915.3
82.5°	221.1	228.5	265.8	295.6	330.4	280.7	556.4	598.7	921.6	732.8
85°	154.0	159.0	208.7	201.2	201.2	156.5	231.0	243.4	365.2	347.8
87.5°	37.3	42.2	101.9	111.8	84.5	47.2	72.0	82.0	131.7	151.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477379
 CATALOG NUMBER: IFLD-S-SA3D-740-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2849.3	0°	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3
2899.0	2.5°	2861.7	2871.7	2913.9	2891.5	2904.0	2851.8	2894.0	2859.3	2889.1	2874.2
2921.4	5°	2941.2	2918.9	2943.7	2926.3	2926.3	2946.2	2976.0	2953.7	2998.4	2978.5
2938.7	7.5°	2973.5	2976.0	2990.9	2993.4	2981.0	3043.1	3045.6	3038.1	3080.3	3070.4
3058.0	10°	3053.0	3055.5	3082.8	3097.7	3085.3	3107.7	3082.8	3063.0	3060.5	3050.5
3152.4	12.5°	3179.7	3204.6	3199.6	3212.0	3214.5	3120.1	3063.0	2966.1	2953.7	2966.1
3291.5	15°	3296.5	3286.5	3291.5	3316.3	3212.0	3060.5	2958.6	2876.6	2881.6	2884.1
3472.8	17.5°	3435.6	3443.0	3450.5	3336.2	3144.9	2966.1	2876.6	2876.6	2851.8	2861.7
3599.5	20°	3594.6	3564.8	3500.2	3338.7	3028.2	2856.8	2829.4	2829.4	2799.6	2779.8
3736.2	22.5°	3718.8	3659.1	3562.3	3261.7	2923.8	2814.5	2747.5	2700.3	2665.5	2625.7
3887.7	25°	3798.3	3766.0	3577.2	3182.2	2846.8	2702.8	2603.4	2531.3	2486.6	2434.5
4006.9	27.5°	3920.0	3857.9	3619.4	3090.3	2762.4	2591.0	2436.9	2325.2	2240.7	2186.0
4188.3	30°	4083.9	3994.5	3589.6	2958.6	2633.2	2397.2	2215.9	2071.8	1974.9	1930.2
4359.7	32.5°	4218.1	4101.3	3564.8	2839.4	2489.1	2201.0	1960.0	1813.4	1758.8	1701.6
4647.8	35°	4473.9	4242.9	3547.4	2772.3	2359.9	2004.7	1751.3	1624.6	1555.1	1470.6
4819.2	37.5°	4670.2	4488.9	3505.1	2633.2	2193.5	1813.4	1592.3	1478.1	1373.7	1284.3
5216.7	40°	4978.2	4831.7	3507.6	2436.9	1997.3	1649.5	1468.1	1348.9	1217.2	1140.2
5805.5	42.5°	5557.0	5169.5	3522.5	2280.4	1776.2	1515.3	1356.3	1214.7	1083.1	1018.5
6476.2	45°	6267.5	5634.0	3430.6	2138.9	1550.1	1388.6	1222.2	1080.6	996.1	948.9
7387.9	47.5°	7084.8	6088.6	3306.4	1873.0	1361.3	1254.5	1098.0	1016.0	953.9	926.6
8562.9	50°	7999.0	6739.5	3271.6	1629.6	1214.7	1140.2	1038.4	976.3	934.0	901.7
9886.9	52.5°	9176.4	7497.2	3202.1	1378.7	1088.1	1048.3	1016.0	973.8	936.5	909.2
11121.5	55°	10301.8	8336.8	3127.5	1172.5	998.6	1003.6	1021.0	983.7	951.4	909.2
12505.2	57.5°	11568.7	9193.8	2851.8	1021.0	931.6	981.2	1016.0	973.8	941.5	909.2
13921.2	60°	12351.2	9675.8	2312.7	889.3	871.9	939.0	986.2	941.5	906.7	919.1
14572.0	62.5°	12669.2	9422.4	1743.9	807.3	829.7	881.9	939.0	921.6	896.8	944.0
14564.6	65°	12127.6	8838.6	1247.0	737.8	772.6	824.7	896.8	916.7	924.1	1016.0
13377.1	67.5°	10791.1	7695.9	916.7	680.7	713.0	790.0	926.6	958.9	953.9	1068.2
11225.9	70°	8634.9	6019.1	715.4	633.5	690.6	817.3	968.8	968.8	934.0	1068.2
8562.9	72.5°	6282.4	4242.9	616.1	578.8	633.5	750.2	963.8	961.4	916.7	976.3
5452.7	75°	3803.2	2469.2	544.0	524.2	544.0	643.4	921.6	906.7	844.6	839.6
2623.3	77.5°	1895.4	1242.1	444.7	464.5	474.5	539.1	809.8	832.2	747.7	727.9
1035.9	80°	799.9	541.5	370.1	399.9	399.9	454.6	673.2	688.1	621.0	583.8
409.9	82.5°	365.2	310.5	315.5	347.8	325.4	352.7	534.1	551.5	504.3	442.2
173.9	85°	154.0	176.4	241.0	273.3	241.0	228.5	367.7	387.5	327.9	273.3
74.5	87.5°	69.6	96.9	151.5	198.7	121.7	106.8	196.2	203.7	164.0	121.7
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>
2849.3
2846.8
2951.2
3055.5
3050.5
2971.0
2918.9
2864.2
2750.0
2603.4
2444.4
2210.9
1955.0
1699.2
1463.2
1286.8
1147.7
1023.5
958.9
921.6
906.7
906.7
906.7
906.7
909.2
931.6
1016.0
1075.6
1045.8
941.5
829.7
715.4
571.4
432.2
275.7
114.3
0.0

F REPORT)