

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: P477393

Luminaire Tested: **IFLD-S-SA6C-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477393
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

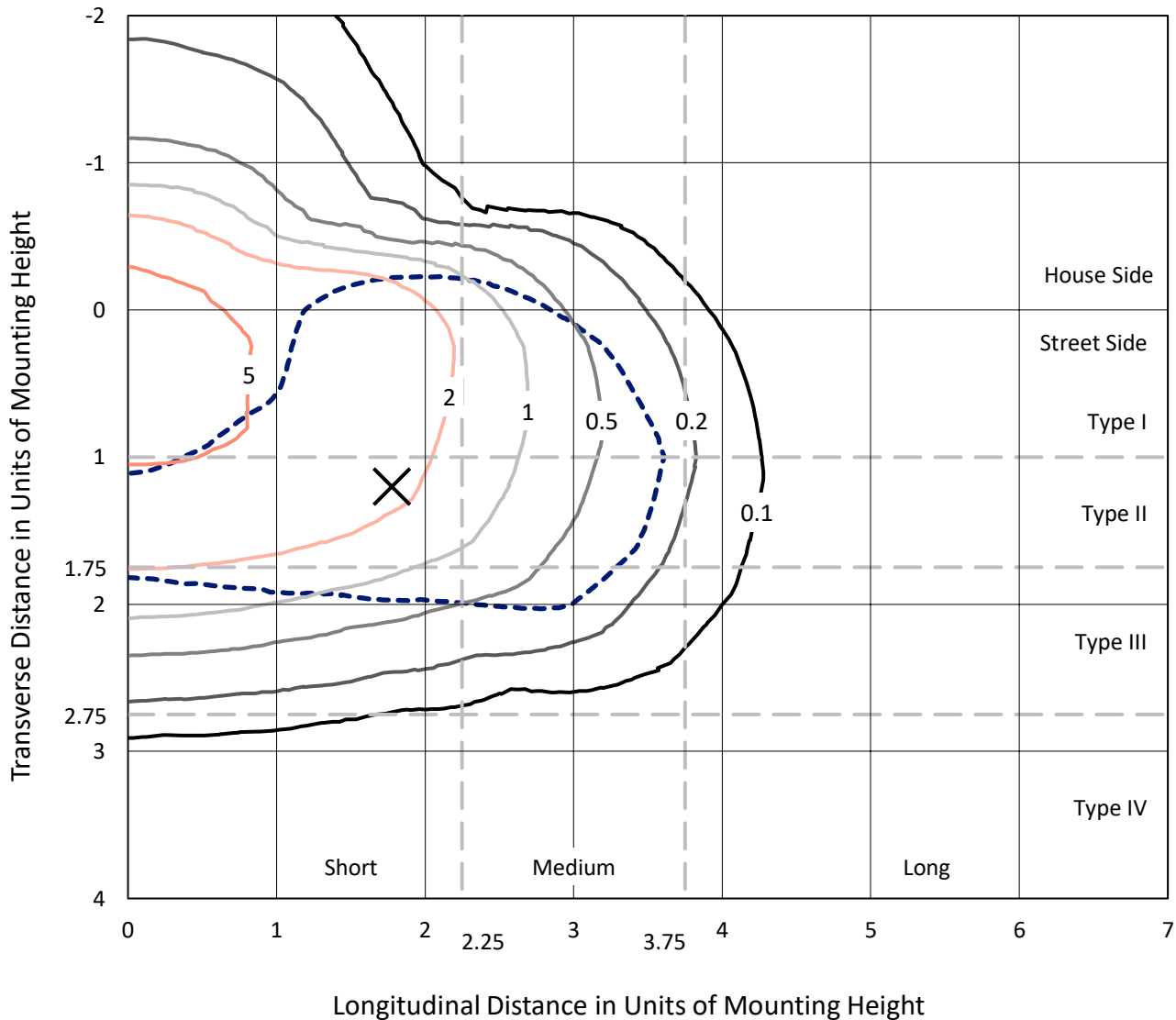
Lumens per Lamp: N/A
Luminaire Lumens: 42321.4 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5
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: P477393
 CATALOG NUMBER: IFLD-S-SA6C-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

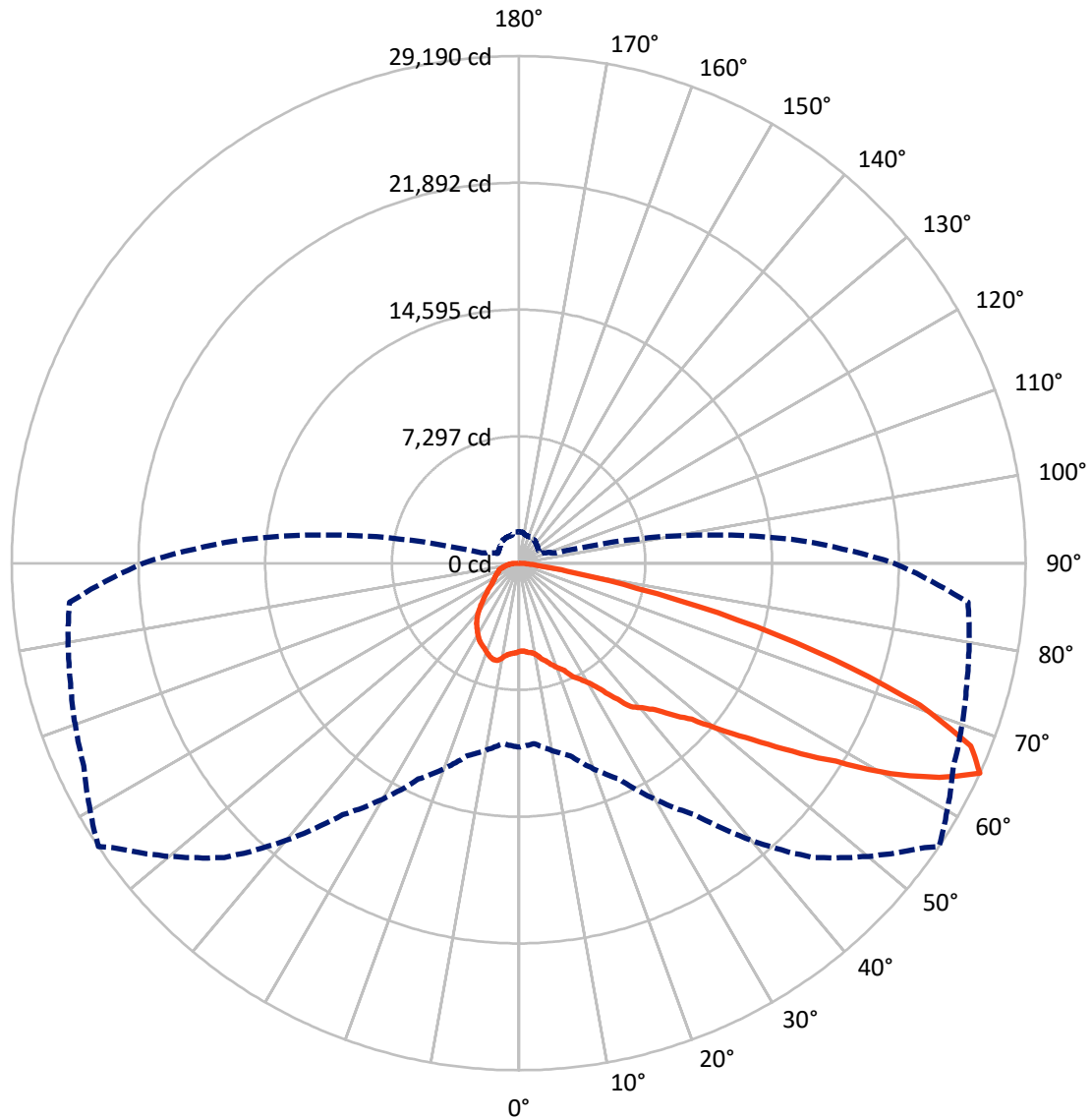
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

REPORT NUMBER: P477393
CATALOG NUMBER: IFLD-S-SA6C-740-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477393
 CATALOG NUMBER: IFLD-S-SA6C-740-U-T3

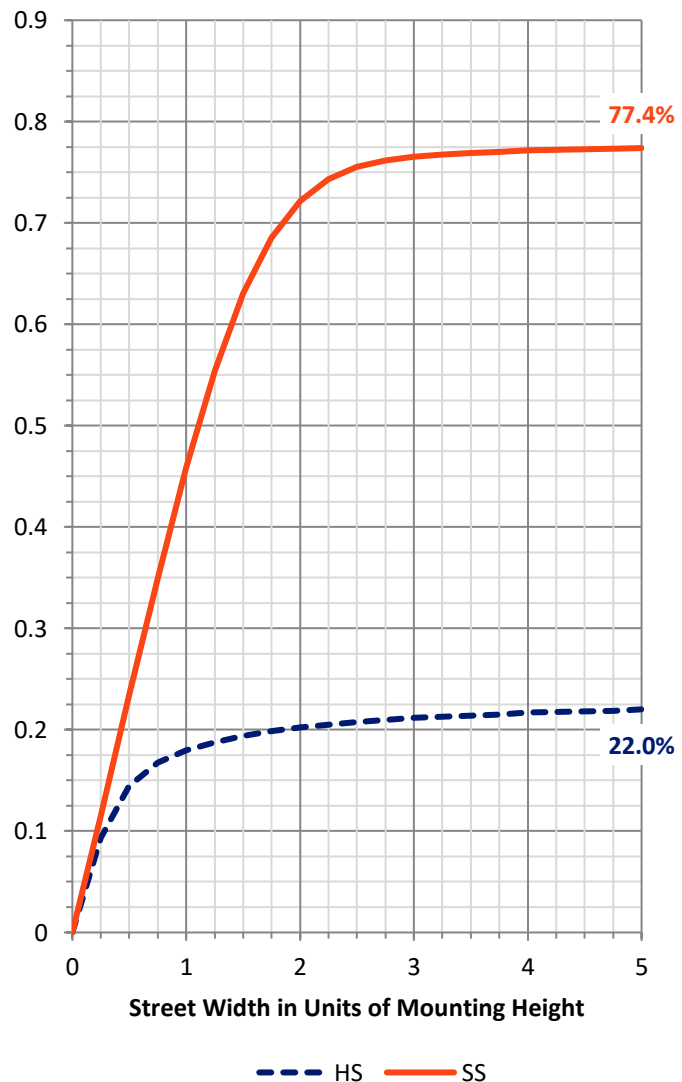
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9491.3	0.0	9491.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	32830.1	0.0	32830.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	42321.4	0.0	42321.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.4	1.2
10°-20°	1634.6	3.9
20°-30°	2910.5	6.9
30°-40°	4358.3	10.3
40°-50°	6457.4	15.3
50°-60°	9949.9	23.5
60°-70°	11264.5	26.6
70°-80°	4674.9	11.0
80°-90°	567.9	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°	42321.4	100.0
0°-180°	42321.4	100.0

Coefficient of Utilization



REPORT NUMBER: P477393

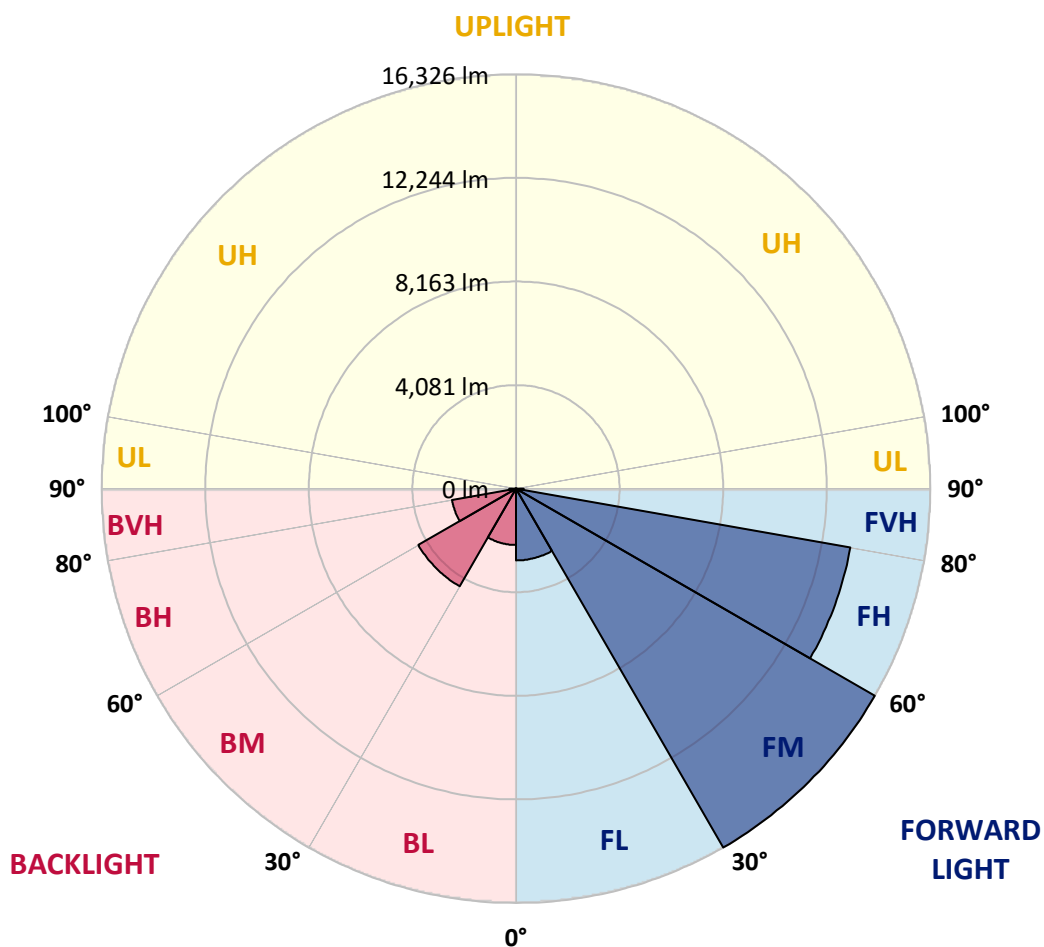
CATALOG NUMBER: IFLD-S-SA6C-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2828.3	6.7			
FM (30°-60°)	16325.7	38.6			
FH (60°-80°)	13376.4	31.6			G5
FVH (80°-90°)	299.6	0.7			G3/500
BL (0°-30°)	2220.1	5.2	B3/2500		
BM (30°-60°)	4439.9	10.5	B3/5000		
BH (60°-80°)	2563.0	6.1	B4/5000		G4/5000
BVH (80°-90°)	268.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P477393
 CATALOG NUMBER: IFLD-S-SA6C-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8
2.5°	4946.9	4973.5	4955.8	5008.9	5053.2	5053.2	5088.6	5062.1	5097.5	5146.2
5°	5110.8	5004.5	5062.1	5088.6	5075.3	5097.5	5062.1	5150.6	5093.1	5186.1
7.5°	5150.6	5190.5	5239.2	5194.9	5234.8	5212.6	5217.1	5203.8	5172.8	5248.1
10°	5442.9	5385.4	5496.1	5429.6	5420.8	5411.9	5394.2	5327.8	5403.1	5407.5
12.5°	5779.5	5726.4	5721.9	5668.8	5739.7	5611.2	5637.8	5602.4	5615.7	5633.4
15°	6023.1	6001.0	6102.8	6040.8	5947.8	5890.2	5952.2	5854.8	5903.5	5894.7
17.5°	6505.8	6501.4	6426.1	6324.3	6271.1	6187.0	6173.7	6133.8	6169.2	6151.5
20°	6842.4	6891.1	6904.4	6784.8	6581.1	6488.1	6466.0	6435.0	6474.8	6461.5
22.5°	7356.1	7280.9	7338.4	7130.3	7055.0	6833.6	6753.8	6709.6	6900.0	6851.3
25°	7683.9	7763.6	7706.0	7635.2	7466.9	7192.3	7134.7	7232.1	7307.4	7254.3
27.5°	8423.5	8343.8	8290.6	8078.0	7967.3	7679.4	7613.0	7577.6	7595.3	7626.3
30°	8985.9	9030.2	8910.6	8760.1	8481.1	8188.8	8033.7	8002.7	7940.7	7887.6
32.5°	9787.5	9721.1	9650.2	9552.8	9313.7	8928.4	8777.8	8662.6	8476.6	8228.6
35°	10172.8	10363.3	10310.1	10048.8	9867.2	9721.1	9676.8	9499.7	9344.7	8954.9
37.5°	10815.0	10894.7	10819.4	10735.3	10651.1	10496.1	10443.0	10491.7	10186.1	9543.9
40°	11231.3	11399.6	11554.6	11319.9	11302.2	11333.2	11005.4	10947.9	10319.0	9982.4
42.5°	12081.6	12152.5	12183.5	12174.6	12276.5	12276.5	11652.0	11528.0	11080.7	10806.1
45°	13206.5	13264.1	13374.8	13454.5	13339.4	13397.0	12506.8	12458.1	12059.5	12006.3
47.5°	14180.8	14318.1	14566.1	14800.9	14951.4	14756.6	13782.3	13436.8	13335.0	13653.8
50°	15031.2	14867.3	15447.5	15686.6	16346.5	16669.8	15190.6	15053.3	14889.4	15500.6
52.5°	15115.3	15336.8	16156.1	16634.4	17994.0	18591.9	16917.8	16860.2	16660.9	17365.1
55°	15717.6	15691.1	16514.8	17551.1	19167.6	20172.9	19167.6	19132.2	18698.2	19366.9
57.5°	15615.8	15885.9	16536.9	17985.1	20226.1	21869.2	21776.1	21532.6	20925.8	21470.6
60°	15270.3	15341.2	16133.9	17971.9	20841.7	23609.6	24592.8	24641.5	23401.5	23835.5
62.5°	13312.8	13476.7	14482.0	16559.1	20403.2	24809.8	27343.1	27170.4	26178.3	25682.3
65°	10589.1	10425.3	11470.5	13715.8	17675.1	23959.5	28547.7	29189.9	27631.0	26723.1
67.5°	6492.5	6452.7	7458.0	9437.7	13224.2	20390.0	27586.7	28087.1	27227.9	26501.6
70°	3343.7	3241.8	3870.7	5265.8	8312.8	14960.3	24008.2	24499.8	25319.1	23769.1
72.5°	1558.9	1536.8	1873.4	2590.8	4233.9	8795.5	18591.9	18946.2	20673.4	20040.1
75°	916.8	930.0	1120.5	1355.2	2063.8	4145.3	12338.5	13024.9	14898.3	14442.1
77.5°	686.5	686.5	797.2	943.3	1204.6	1603.2	6089.5	6997.4	8711.3	7834.5
80°	504.9	513.7	611.2	708.6	837.0	828.2	2418.1	2834.4	3994.7	3414.6
82.5°	394.2	407.4	473.9	527.0	589.0	500.4	992.0	1067.3	1643.1	1306.5
85°	274.6	283.4	372.0	358.7	358.7	279.0	411.9	434.0	651.0	620.0
87.5°	66.4	75.3	181.6	199.3	150.6	84.1	128.4	146.1	234.7	270.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477393
 CATALOG NUMBER: IFLD-S-SA6C-740-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5079.8	0°	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8	5079.8
5168.3	2.5°	5101.9	5119.6	5194.9	5155.1	5177.2	5084.2	5159.5	5097.5	5150.6	5124.1
5208.2	5°	5243.6	5203.8	5248.1	5217.1	5217.1	5252.5	5305.6	5265.8	5345.5	5310.1
5239.2	7.5°	5301.2	5305.6	5332.2	5336.6	5314.5	5425.2	5429.6	5416.4	5491.6	5473.9
5451.8	10°	5442.9	5447.4	5496.1	5522.6	5500.5	5540.4	5496.1	5460.6	5456.2	5438.5
5620.1	12.5°	5668.8	5713.1	5704.2	5726.4	5730.8	5562.5	5460.6	5287.9	5265.8	5287.9
5868.1	15°	5876.9	5859.2	5868.1	5912.4	5726.4	5456.2	5274.6	5128.5	5137.3	5141.8
6191.4	17.5°	6125.0	6138.2	6151.5	5947.8	5606.8	5287.9	5128.5	5128.5	5084.2	5101.9
6417.3	20°	6408.4	6355.3	6240.1	5952.2	5398.6	5093.1	5044.3	5044.3	4991.2	4955.8
6660.8	22.5°	6629.8	6523.5	6350.8	5814.9	5212.6	5017.8	4898.2	4814.0	4752.0	4681.2
6931.0	25°	6771.6	6714.0	6377.4	5673.2	5075.3	4818.5	4641.3	4512.9	4433.2	4340.2
7143.6	27.5°	6988.6	6877.8	6452.7	5509.4	4924.8	4619.2	4344.6	4145.3	3994.7	3897.3
7466.9	30°	7280.9	7121.4	6399.5	5274.6	4694.5	4273.7	3950.4	3693.6	3520.9	3441.1
7772.5	32.5°	7520.0	7311.9	6355.3	5062.1	4437.6	3923.9	3494.3	3233.0	3135.6	3033.7
8286.2	35°	7976.2	7564.3	6324.3	4942.5	4207.3	3574.0	3122.3	2896.4	2772.4	2621.8
8591.8	37.5°	8326.0	8002.7	6249.0	4694.5	3910.6	3233.0	2838.8	2635.1	2449.1	2289.7
9300.4	40°	8875.2	8613.9	6253.4	4344.6	3560.7	2940.7	2617.4	2404.8	2170.1	2032.8
10350.0	42.5°	9907.1	9216.2	6280.0	4065.6	3166.6	2701.5	2418.1	2165.7	1930.9	1815.8
11545.7	45°	11173.7	10044.4	6116.1	3813.2	2763.5	2475.7	2178.9	1926.5	1775.9	1691.8
13171.1	47.5°	12630.8	10854.9	5894.7	3339.3	2427.0	2236.5	1957.5	1811.4	1700.6	1651.9
15265.9	50°	14260.6	12015.2	5832.7	2905.3	2165.7	2032.8	1851.2	1740.5	1665.2	1607.6
17626.4	52.5°	16359.8	13366.0	5708.7	2458.0	1939.8	1868.9	1811.4	1736.1	1669.6	1620.9
19827.5	55°	18366.0	14862.9	5575.8	2090.4	1780.4	1789.2	1820.2	1753.8	1696.2	1620.9
22294.3	57.5°	20624.7	16390.8	5084.2	1820.2	1660.8	1749.4	1811.4	1736.1	1678.5	1620.9
24818.7	60°	22019.7	17250.0	4123.2	1585.5	1554.5	1674.1	1758.2	1678.5	1616.5	1638.6
25979.0	62.5°	22586.6	16798.2	3109.0	1439.3	1479.2	1572.2	1674.1	1643.1	1598.8	1682.9
25965.7	65°	21621.1	15757.5	2223.2	1315.3	1377.3	1470.3	1598.8	1634.2	1647.5	1811.4
23848.8	67.5°	19238.5	13720.3	1634.2	1213.5	1271.1	1408.3	1651.9	1709.5	1700.6	1904.4
20013.5	70°	15394.3	10730.9	1275.5	1129.3	1231.2	1457.1	1727.2	1727.2	1665.2	1904.4
15265.9	72.5°	11200.3	7564.3	1098.3	1031.9	1129.3	1337.5	1718.4	1713.9	1634.2	1740.5
9721.1	75°	6780.4	4402.2	969.9	934.5	969.9	1147.0	1643.1	1616.5	1505.8	1496.9
4676.8	77.5°	3379.1	2214.4	792.7	828.2	845.9	961.0	1443.8	1483.6	1333.1	1297.6
1846.8	80°	1426.1	965.5	659.9	713.0	713.0	810.5	1200.2	1226.8	1107.2	1040.8
730.7	82.5°	651.0	553.6	562.5	620.0	580.2	628.9	952.2	983.2	899.0	788.3
310.0	85°	274.6	314.4	429.6	487.2	429.6	407.4	655.5	690.9	584.6	487.2
132.9	87.5°	124.0	172.7	270.2	354.3	217.0	190.4	349.9	363.2	292.3	217.0
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°
5079.8
5075.3
5261.4
5447.4
5438.5
5296.8
5203.8
5106.3
4902.6
4641.3
4357.9
3941.6
3485.4
3029.3
2608.5
2294.1
2046.1
1824.6
1709.5
1643.1
1616.5
1616.5
1616.5
1616.5
1620.9
1660.8
1811.4
1917.6
1864.5
1678.5
1479.2
1275.5
1018.6
770.6
491.6
203.7
0.0

F REPORT)