

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: EPHESUS

Report Number: P575048

Luminaire Tested: **EPH-VN-08-730-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-730-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

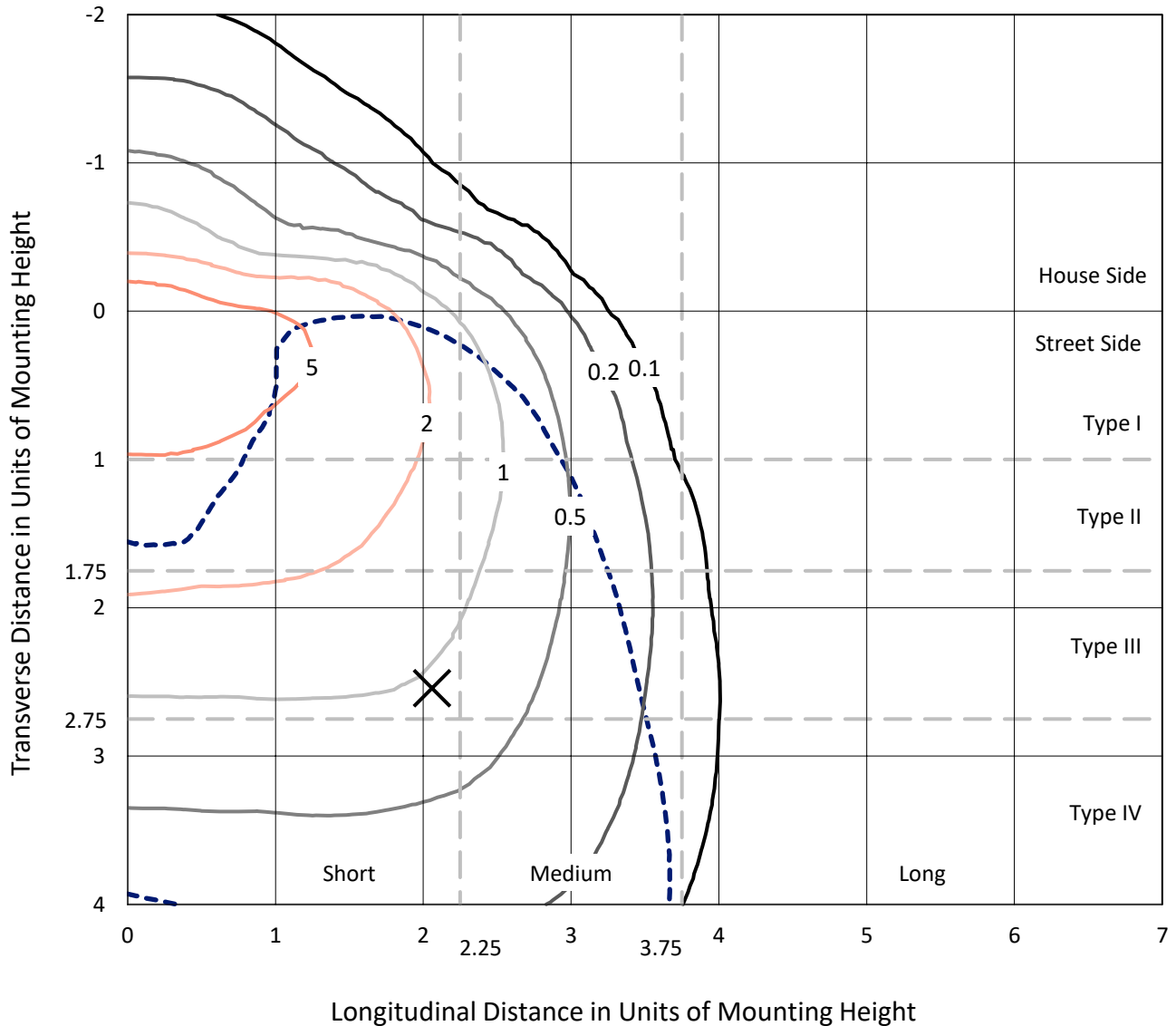
Lumens per Lamp: N/A
Luminaire Lumens: 49102.8 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
Input Voltage (V): 120
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: P575048
 CATALOG NUMBER: EPH-VN-08-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

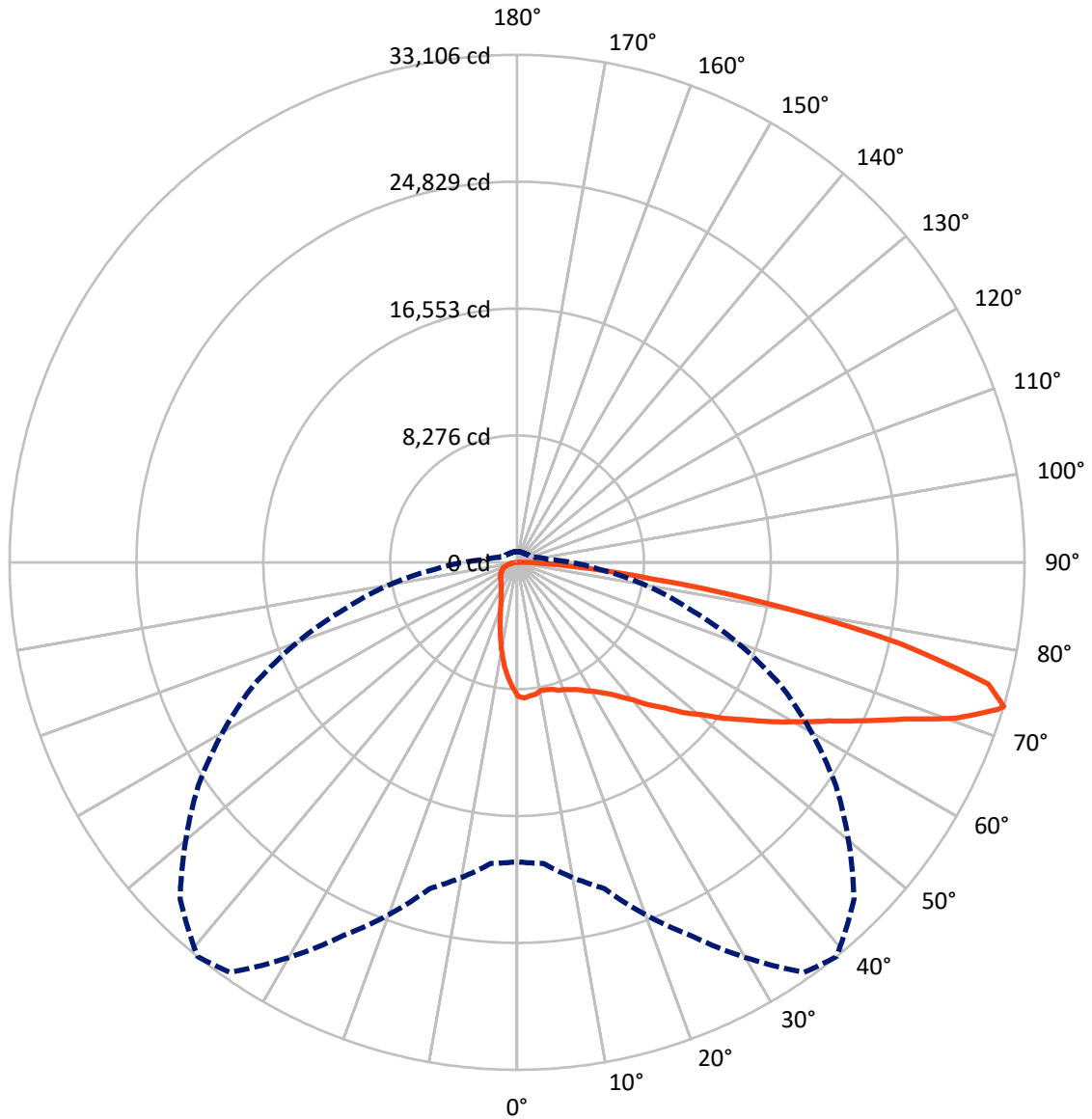
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P575048
CATALOG NUMBER: EPH-VN-08-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P575048
 CATALOG NUMBER: EPH-VN-08-730-U-SL4

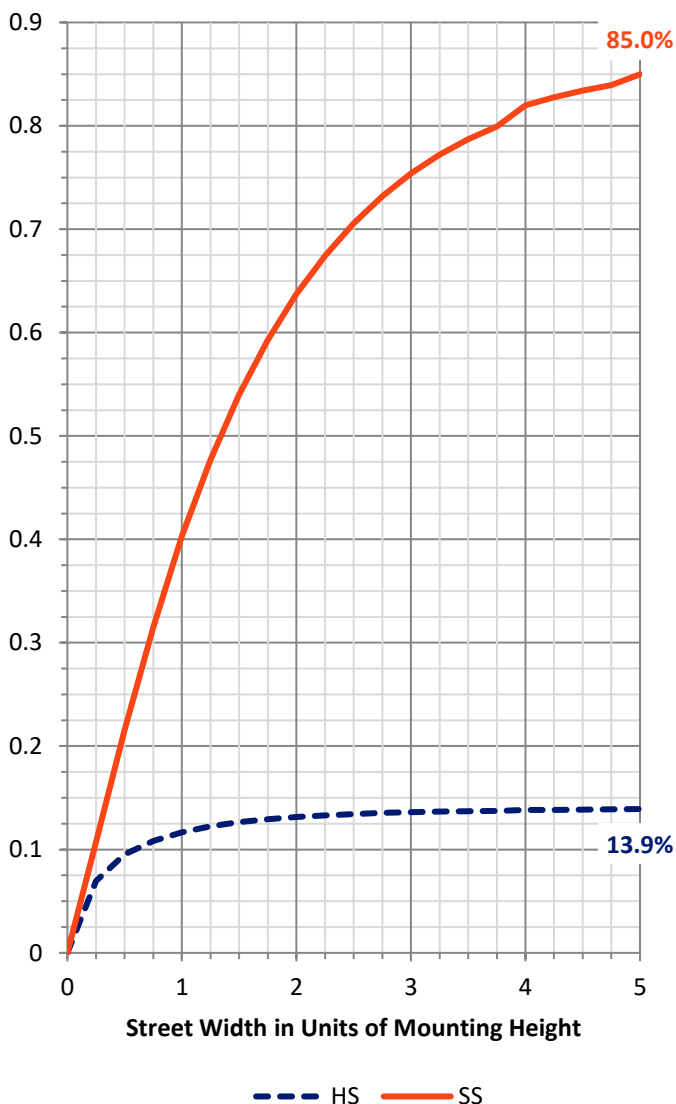
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6902.5	0.0	6902.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	42200.3	0.0	42200.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	49102.8	0.0	49102.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.8	1.5
10°-20°	1928.9	3.9
20°-30°	2947.5	6.0
30°-40°	4297.6	8.8
40°-50°	6494.1	13.2
50°-60°	9403.8	19.2
60°-70°	11947.9	24.3
70°-80°	9685.6	19.7
80°-90°	1638.8	3.3
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°	49102.8	100.0
0°-180°	49102.8	100.0

Coefficient of Utilization



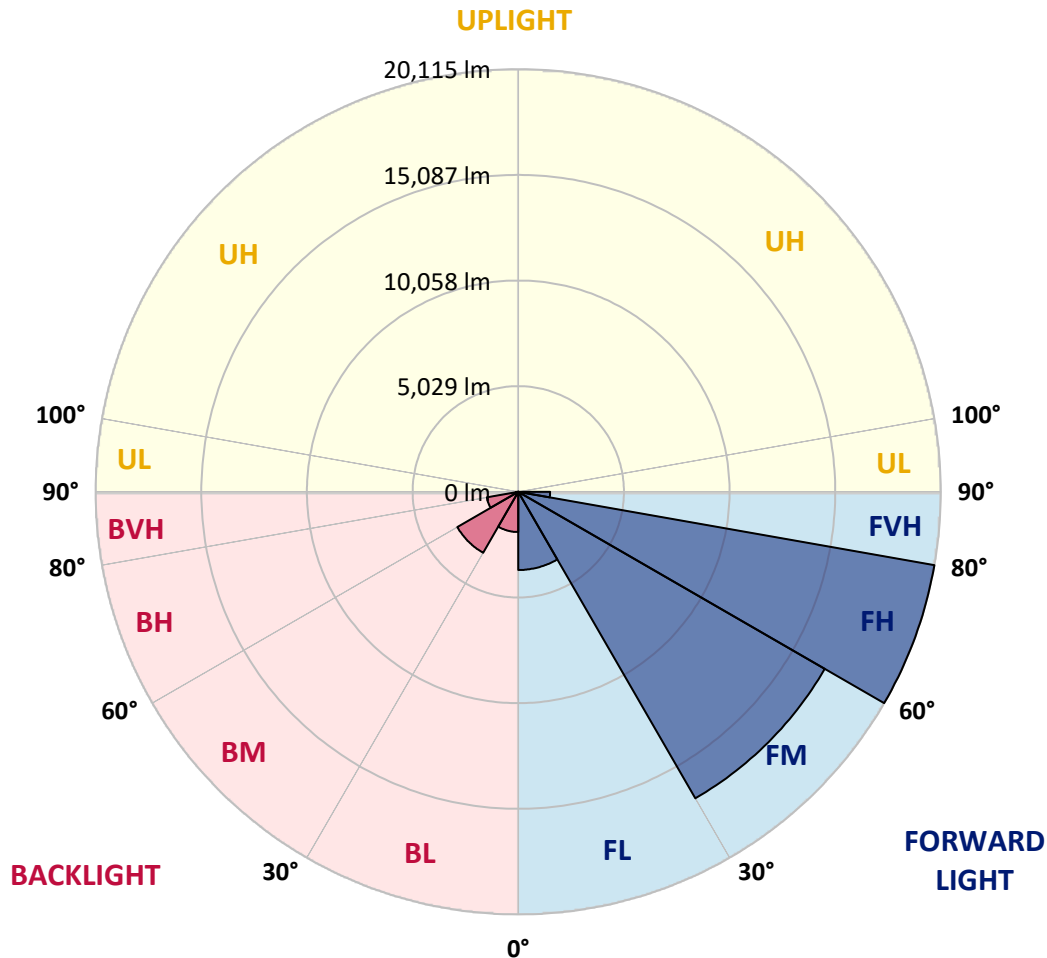
REPORT NUMBER: P575048
 CATALOG NUMBER: EPH-VN-08-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3720.9	7.6			
FM (30°-60°)	16845.4	34.3			
FH (60°-80°)	20115.5	41.0			G5
FVH (80°-90°)	1518.5	3.1			G5
BL (0°-30°)	1914.2	3.9	B3/2500		
BM (30°-60°)	3349.9	6.8	B3/5000		
BH (60°-80°)	1518.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	120.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P575048
 CATALOG NUMBER: EPH-VN-08-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°
0°	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6
2.5°	8949.4	8856.0	8872.5	8839.5	8872.5	8861.5	8845.0	8762.6	8845.0	8762.6
5°	8828.5	8828.5	8883.4	8801.0	8812.0	8757.1	8812.0	8751.6	8696.6	8559.3
7.5°	8790.0	8784.6	8790.0	8674.7	8729.6	8696.6	8641.7	8575.8	8465.9	8378.0
10°	8526.3	8581.3	8520.8	8553.8	8597.8	8498.9	8493.4	8476.9	8427.5	8312.1
12.5°	8383.5	8476.9	8509.9	8482.4	8520.8	8531.8	8498.9	8476.9	8416.5	8339.6
15°	8443.9	8334.1	8427.5	8608.7	8570.3	8597.8	8603.3	8581.3	8553.8	8411.0
17.5°	8460.4	8394.5	8592.3	8630.7	8680.2	8779.1	8713.1	8707.6	8603.3	8504.4
20°	8498.9	8471.4	8630.7	8834.0	8839.5	8856.0	8888.9	8806.5	8751.6	8581.3
22.5°	8641.7	8735.1	8883.4	8971.3	9020.8	9031.8	9031.8	8867.0	8806.5	8669.2
25°	9070.2	8971.3	9180.1	9284.5	9213.1	9196.6	9158.1	9009.8	8943.9	8823.0
27.5°	9383.4	9377.9	9498.7	9641.6	9449.3	9487.8	9350.4	9306.5	9158.1	9092.2
30°	9811.9	9932.7	9927.3	9971.2	9718.5	9762.4	9586.6	9504.2	9421.8	9460.3
32.5°	10361.3	10317.3	10388.7	10355.8	10103.1	10141.5	9932.7	9806.4	9833.9	9949.2
35°	10712.9	10668.9	10696.4	10696.4	10619.5	10575.5	10487.6	10322.8	10454.7	10668.9
37.5°	11091.9	11146.9	11306.2	11273.2	11174.3	11174.3	11163.4	11048.0	11218.3	11745.7
40°	11427.1	11575.4	11674.3	11740.2	11855.6	11855.6	11949.0	11883.0	12190.7	13036.7
42.5°	11778.7	11784.2	12322.5	12372.0	12630.2	12740.1	12811.5	12866.4	13443.3	14388.2
45°	12229.1	12256.6	12729.1	13108.2	13509.2	13547.7	13816.9	13998.1	14706.8	15866.0
47.5°	12822.5	12789.5	13294.9	13899.3	14399.2	14662.9	14987.0	15184.8	16058.3	17470.2
50°	13602.6	13503.7	13794.9	14745.3	15333.1	15624.3	16201.1	16530.8	17552.6	19003.0
52.5°	14553.0	14388.2	14618.9	15657.3	16316.5	16904.4	17453.7	17821.8	18887.6	20189.6
55°	15558.4	15217.8	15283.7	16624.2	17574.6	18129.5	18882.1	19266.7	20354.4	21255.4
57.5°	16552.8	16338.5	16206.6	17552.6	19074.4	19607.3	20299.5	20799.4	21722.4	22200.4
60°	17387.8	17332.9	17118.6	18992.0	20662.1	21118.1	21843.3	22150.9	22848.6	23073.9
62.5°	18074.5	17887.7	18228.4	20151.2	22277.3	22793.7	23590.3	23617.7	24112.2	23617.7
65°	18612.9	18623.9	19167.8	21552.1	24145.2	24908.8	25551.6	25480.1	25161.5	23293.6
67.5°	19101.9	19310.6	20107.2	23090.3	26545.9	27265.6	27979.8	27034.9	25447.2	21777.3
70°	19486.4	19695.2	21376.3	24963.7	29375.2	30430.0	30589.4	27650.2	24134.2	18448.1
72.5°	19442.5	19821.5	22096.0	26458.0	31885.9	32797.9	31512.3	25919.6	20107.2	12860.9
73°	19535.9	19722.7	22035.5	26875.6	32649.5	33105.5	31083.8	25375.8	18964.5	11536.9
75°	17733.9	18365.7	20942.3	26194.3	31830.9	31748.5	28622.6	21145.5	13481.7	6059.6
77.5°	13119.1	13520.2	16503.3	21541.1	26128.4	25601.0	21590.5	13514.7	6400.3	2247.0
80°	6411.2	6724.4	8746.1	12437.9	17085.6	17129.6	13399.3	7032.0	2741.4	1269.1
82.5°	3202.9	3389.7	4202.7	5466.3	8405.5	8806.5	6795.8	3999.5	1697.6	719.7
85°	2093.1	2225.0	2587.6	2675.5	3565.5	3763.2	3164.4	3120.5	1104.2	390.1
87.5°	1389.9	1411.9	1587.7	1351.5	1428.4	1373.4	1527.3	1966.8	324.1	164.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575048
 CATALOG NUMBER: EPH-VN-08-730-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8740.6	0°	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6	8740.6
8740.6	2.5°	8713.1	8636.2	8553.8	8438.4	8356.0	8229.7	8114.3	8064.9	8053.9	8059.4
8520.8	5°	8487.9	8378.0	8213.2	7977.0	7839.6	7630.9	7455.1	7361.7	7262.8	7279.3
8251.7	7.5°	8174.7	8053.9	7801.2	7526.5	7185.9	6889.2	6724.4	6493.6	6361.8	6262.9
8235.2	10°	8075.9	7867.1	7488.0	7108.9	6581.5	6191.5	5812.4	5548.7	5367.4	5191.6
8119.8	12.5°	8026.4	7817.6	7290.2	6729.9	6048.6	5455.3	4922.4	4598.3	4340.1	4186.3
8268.1	15°	7982.5	7724.3	7103.5	6312.4	5548.7	4768.6	4169.8	3741.3	3494.0	3345.7
8295.6	17.5°	8042.9	7674.8	6828.8	5905.8	4999.3	4164.3	3499.5	3054.5	2801.8	2708.4
8262.6	20°	7982.5	7619.9	6559.6	5499.3	4450.0	3587.4	2950.2	2582.1	2406.3	2329.4
8416.5	22.5°	8004.4	7488.0	6279.4	5048.8	3939.0	3104.0	2582.1	2301.9	2164.5	2126.1
8487.9	25°	8108.8	7411.1	5999.2	4554.3	3433.6	2746.9	2345.8	2131.6	2032.7	1994.2
8614.2	27.5°	8185.7	7477.0	5746.5	4087.4	3005.1	2428.2	2148.1	2005.2	1939.3	1911.8
8987.8	30°	8378.0	7515.5	5499.3	3669.8	2653.5	2219.5	2010.7	1895.4	1851.4	1834.9
9498.7	32.5°	8663.7	7586.9	5213.6	3285.3	2395.3	2021.7	1900.8	1802.0	1791.0	1774.5
10070.1	35°	9130.7	7834.1	4895.0	2955.7	2148.1	1889.9	1785.5	1719.6	1719.6	1719.6
10982.1	37.5°	9800.9	8180.2	4609.3	2642.5	1988.7	1774.5	1686.6	1664.6	1653.6	1670.1
12097.3	40°	10663.4	8597.8	4378.5	2395.3	1851.4	1697.6	1620.7	1609.7	1604.2	1598.7
13289.4	42.5°	11608.4	9130.7	4180.8	2203.0	1752.5	1615.2	1560.2	1549.2	1527.3	1538.3
14586.0	45°	12547.8	9789.9	4005.0	2049.2	1686.6	1571.2	1494.3	1488.8	1477.8	1472.3
16003.4	47.5°	13591.6	10438.2	3950.0	1955.8	1637.1	1505.3	1450.4	1444.9	1411.9	1406.4
16975.8	50°	14404.7	10916.1	4010.5	1911.8	1565.7	1455.9	1417.4	1389.9	1362.5	1335.0
17695.5	52.5°	14965.0	11245.8	4054.4	1878.9	1527.3	1389.9	1340.5	1329.5	1302.0	1274.6
18415.1	55°	15470.5	11443.5	4065.4	1884.4	1488.8	1313.0	1280.1	1274.6	1258.1	1214.1
19025.0	57.5°	15640.8	11361.1	3845.6	1834.9	1466.8	1263.6	1219.6	1230.6	1208.6	1170.2
19035.9	60°	15624.3	10789.8	3345.7	1769.0	1417.4	1208.6	1153.7	1186.7	1186.7	1142.7
18475.6	62.5°	14673.9	9471.3	2735.9	1642.6	1362.5	1153.7	1093.3	1142.7	1159.2	1131.7
17151.6	65°	12701.6	7713.3	2285.4	1516.3	1280.1	1093.3	1032.8	1087.8	1115.2	1104.2
14564.0	67.5°	10509.6	5900.3	1900.8	1351.5	1175.7	1010.9	961.4	999.9	1016.3	1021.8
10987.6	70°	7427.6	3928.1	1587.7	1170.2	1032.8	923.0	868.0	873.5	868.0	884.5
6411.2	72.5°	4037.9	2263.4	1291.0	994.4	890.0	802.1	763.6	736.2	736.2	730.7
5422.4	73°	3455.6	2032.7	1230.6	966.9	851.5	780.1	736.2	714.2	714.2	708.7
2626.0	75°	1939.3	1488.8	1054.8	829.6	736.2	681.2	648.3	615.3	609.8	609.8
1417.4	77.5°	1274.6	1159.2	840.5	664.7	593.3	543.9	532.9	499.9	499.9	499.9
966.9	80°	955.9	912.0	648.3	505.4	456.0	417.5	406.5	384.6	379.1	357.1
549.4	82.5°	637.3	719.7	472.5	357.1	307.7	285.7	285.7	280.2	263.7	236.2
445.0	85°	505.4	587.8	340.6	219.8	181.3	153.8	159.3	153.8	148.3	120.9
120.9	87.5°	93.4	236.2	98.9	60.4	44.0	27.5	27.5	16.5	11.0	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>
8740.6
8004.4
7235.3
6317.8
5268.5
4246.7
3362.2
2686.5
2312.9
2137.1
2005.2
1906.3
1829.4
1780.0
1736.0
1681.1
1609.7
1554.7
1499.8
1428.4
1335.0
1263.6
1203.1
1164.7
1137.2
1126.2
1098.8
1027.3
884.5
730.7
703.2
609.8
494.4
362.6
236.2
115.4
0.0
0.0

F REPORT)