

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: P575219

Luminaire Tested: **EPH-VN-07-740-U-T3-HSS**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575219  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-07-740-U-T3-HSS  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

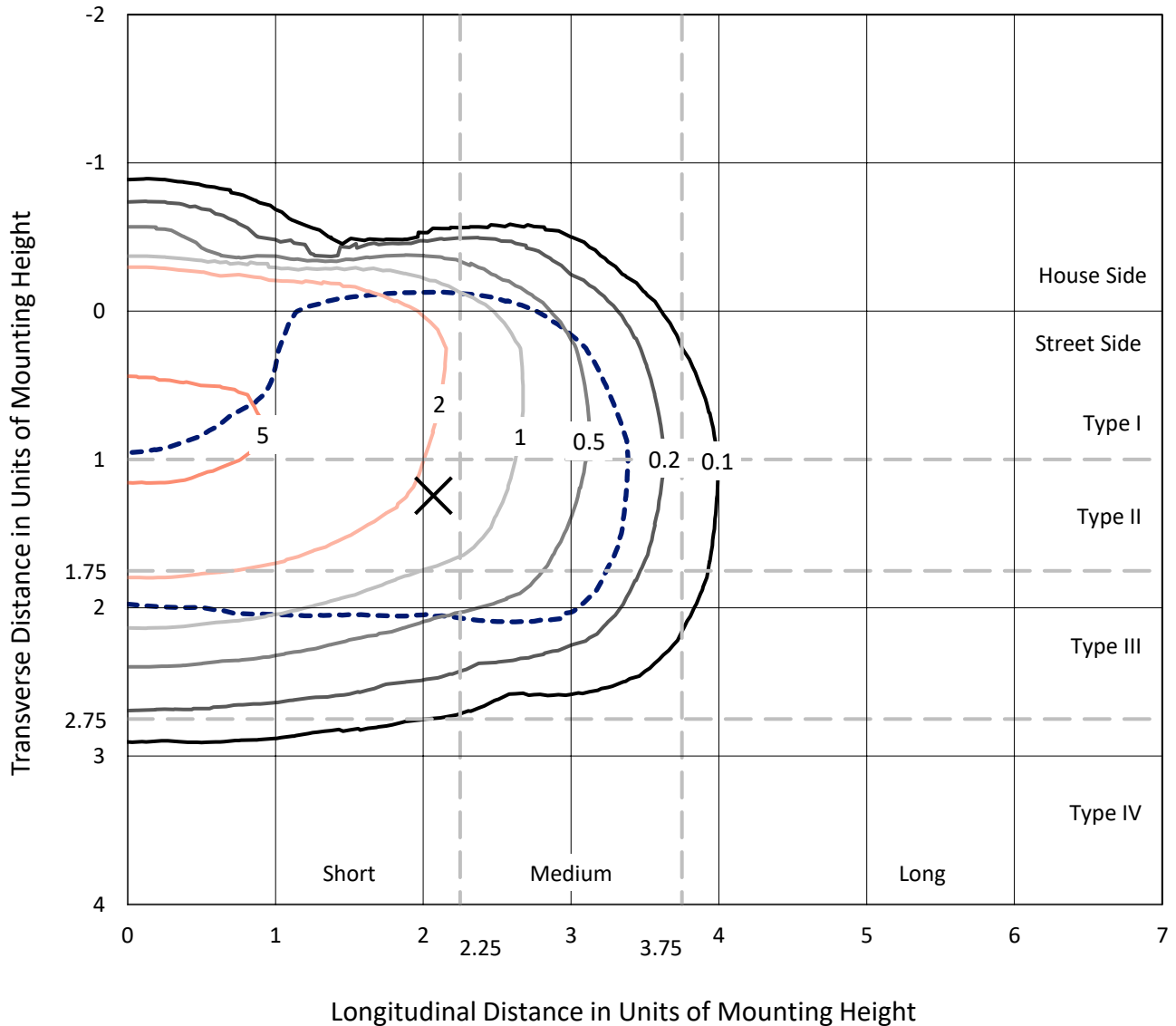
Lumens per Lamp: N/A  
Luminaire Lumens: 36195.7 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.5  
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: P575219  
 CATALOG NUMBER: EPH-VN-07-740-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

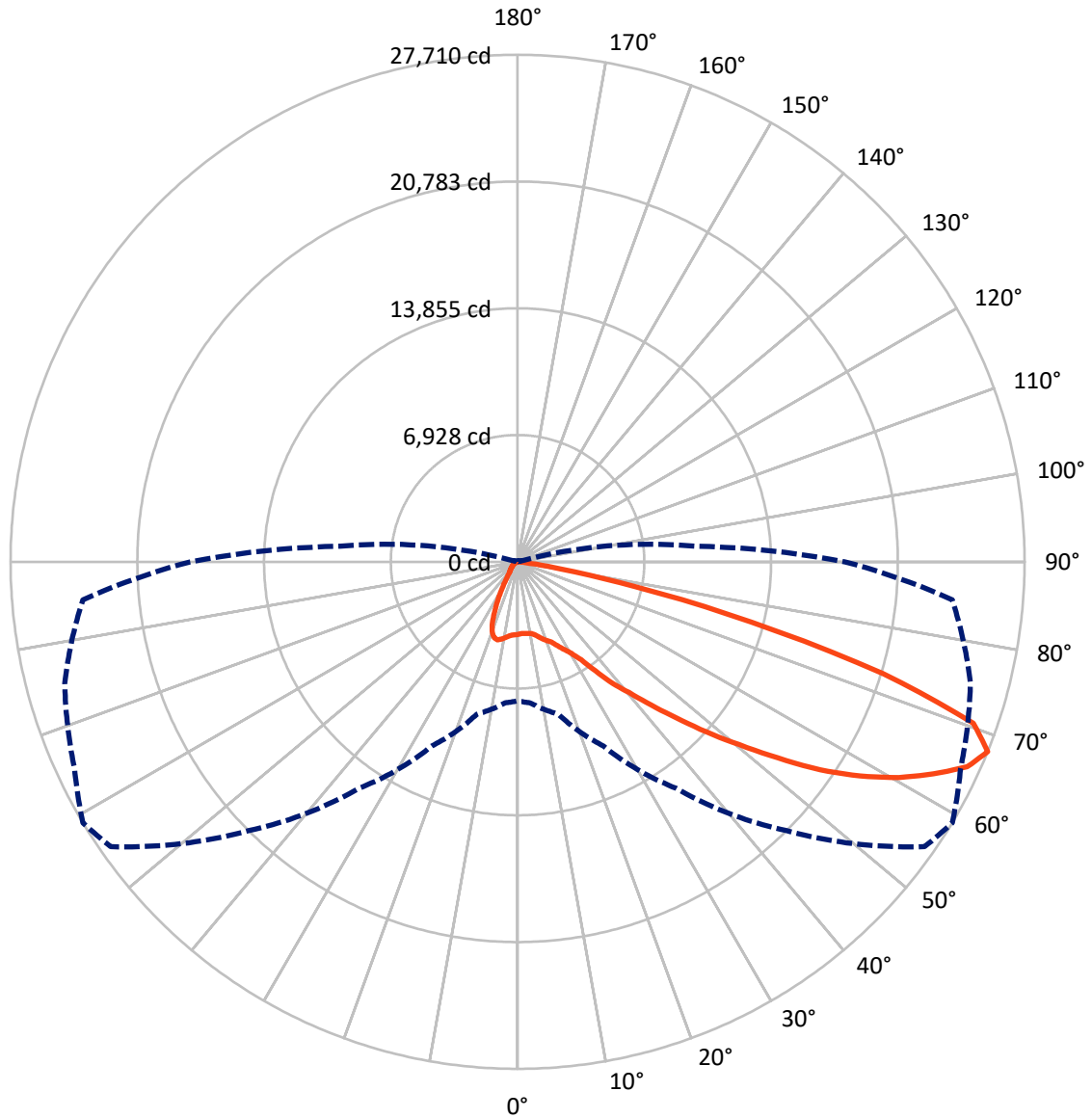
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P575219  
CATALOG NUMBER: EPH-VN-07-740-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P575219  
 CATALOG NUMBER: EPH-VN-07-740-U-T3-HSS

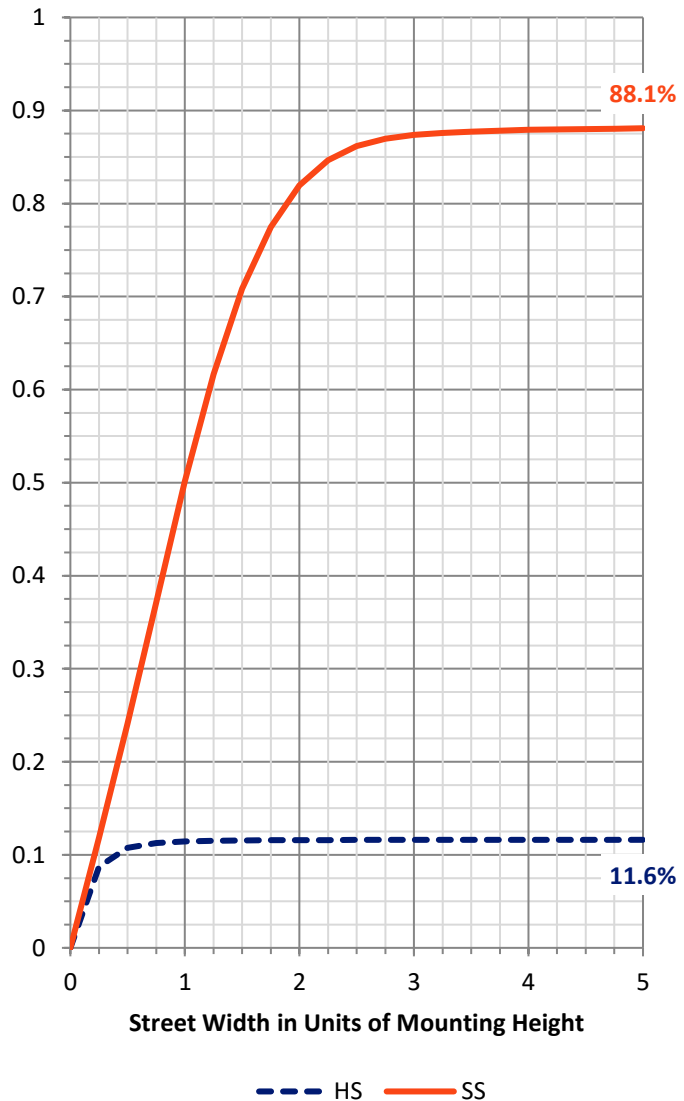
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4251.8	0.0	4251.8
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	31943.9	0.0	31943.9
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	36195.7	0.0	36195.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.1	1.0
10°-20°	1089.3	3.0
20°-30°	1903.9	5.3
30°-40°	3351.9	9.3
40°-50°	5925.2	16.4
50°-60°	9381.7	25.9
60°-70°	10406.9	28.8
70°-80°	3610.9	10.0
80°-90°	148.7	0.4
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°	36195.7	100.0
0°-180°	36195.7	100.0

**Coefficient of Utilization**



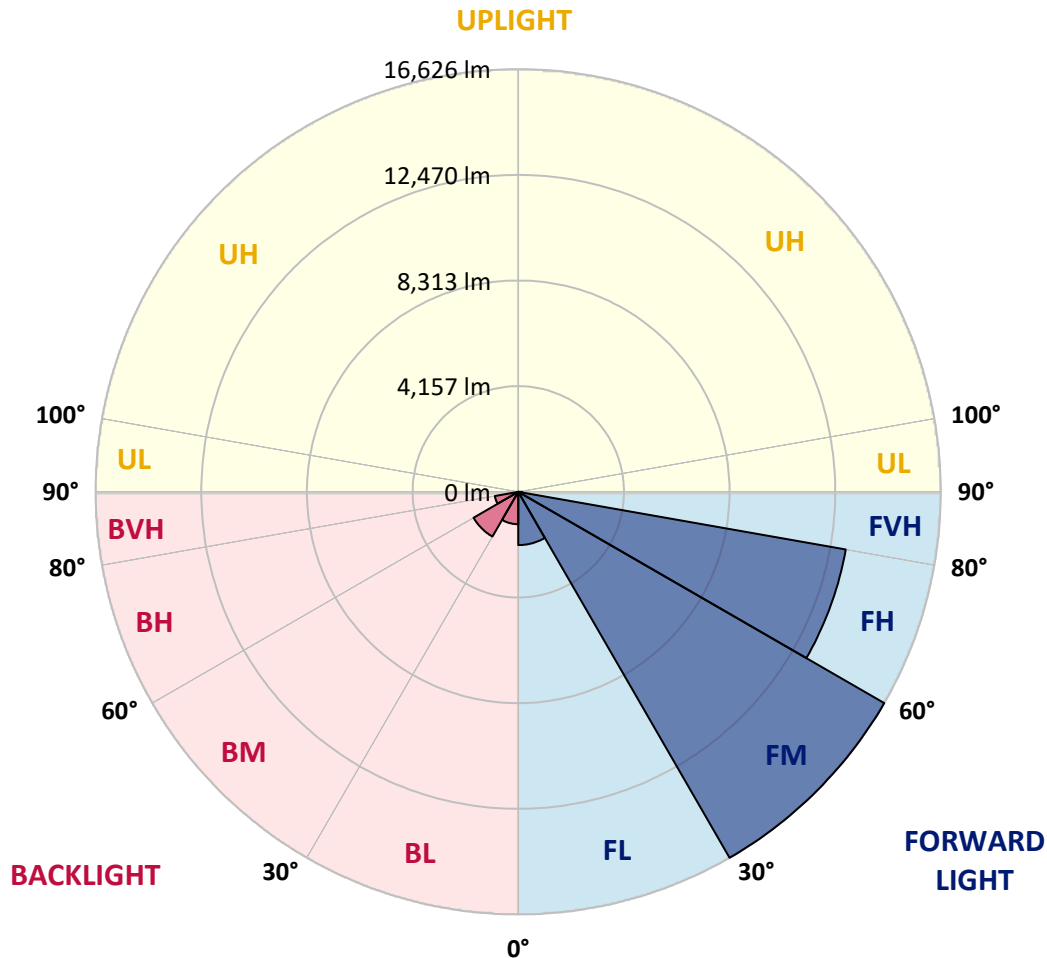
REPORT NUMBER: P575219  
 CATALOG NUMBER: EPH-VN-07-740-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.0	5.8			
FM (30°-60°)	16626.0	45.9			
FH (60°-80°)	13082.8	36.1			G5
FVH (80°-90°)	139.1	0.4			G2/225
BL (0°-30°)	1274.3	3.5	B3/2500		
BM (30°-60°)	2032.8	5.6	B2/2500		
BH (60°-80°)	935.0	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.6	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 Short





REPORT NUMBER: P575219  
 CATALOG NUMBER: EPH-VN-07-740-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0
2.5°	3855.0	3800.0	3850.0	3855.0	3860.0	3905.0	3955.0	3920.0	3915.0	3955.0
5°	3700.0	3675.0	3735.0	3765.0	3815.0	3855.0	3935.0	3940.0	3945.0	3990.0
7.5°	3635.0	3575.0	3645.0	3680.0	3715.0	3810.0	3905.0	3955.0	4025.0	4080.0
10°	3505.0	3550.0	3570.0	3630.0	3730.0	3840.0	3955.0	3980.0	4135.0	4180.0
12.5°	3550.0	3580.0	3620.0	3635.0	3745.0	3910.0	4065.0	4075.0	4235.0	4430.0
15°	3665.0	3645.0	3660.0	3680.0	3810.0	3945.0	4195.0	4240.0	4390.0	4610.0
17.5°	3910.0	3875.0	3850.0	3845.0	3875.0	4000.0	4295.0	4430.0	4570.0	4870.0
20°	4525.0	4495.0	4395.0	4135.0	4045.0	4095.0	4415.0	4605.0	4800.0	5135.0
22.5°	5460.0	5490.0	5255.0	4890.0	4515.0	4320.0	4605.0	4770.0	5080.0	5505.0
25°	6565.0	6505.0	6220.0	5795.0	5205.0	4745.0	4910.0	5095.0	5475.0	5825.0
27.5°	7430.0	7360.0	7140.0	6625.0	6115.0	5370.0	5310.0	5425.0	5875.0	6190.0
30°	8285.0	8310.0	8160.0	7550.0	6920.0	6135.0	5755.0	5805.0	6150.0	6555.0
32.5°	9375.0	9315.0	9230.0	8695.0	7950.0	7110.0	6460.0	6380.0	6530.0	7065.0
35°	10390.1	10355.1	10240.1	9700.0	9050.0	8135.0	7500.0	7320.0	7285.0	7880.0
37.5°	11275.1	11215.1	11040.1	10695.1	10065.0	9295.0	8600.0	8440.0	8435.0	8845.0
40°	12020.1	12065.1	12045.1	11665.1	11320.1	10705.1	9640.0	9385.0	9365.0	9585.0
42.5°	12985.1	13090.1	13035.1	12960.1	12545.1	12305.1	11100.1	10710.1	10535.1	10985.1
45°	14445.1	14485.1	14520.1	14335.1	13920.1	13970.1	12610.1	12145.1	12100.1	12770.1
47.5°	15810.1	15705.1	15950.1	15960.1	15940.1	15710.1	14240.1	13895.1	13955.1	14465.1
50°	16150.1	16420.1	17095.1	17220.1	17545.1	17755.1	16050.1	15705.1	15805.1	16385.1
52.5°	16415.1	16825.1	17500.1	18415.1	19290.1	19790.1	18075.1	17795.1	17790.1	18145.1
55°	16880.1	17130.1	17715.1	18975.1	20640.1	21460.1	20515.1	20065.1	19660.1	19910.1
57.5°	16835.1	16930.1	17840.1	19395.1	21710.1	23200.1	22520.1	22090.1	21570.1	21425.1
60°	16045.1	16270.1	17290.1	19110.1	22370.1	24555.1	24390.1	23950.1	23055.1	22715.1
62.5°	14480.1	14780.1	15580.1	18110.1	21410.1	24625.1	25680.1	25515.1	24515.1	23905.1
65°	11735.1	11875.1	12795.1	15570.1	19240.1	23550.1	27205.1	27000.1	26080.1	25170.1
67.5°	7600.0	7735.0	8620.0	11115.1	15110.1	20775.1	27145.1	27710.1	26715.1	25620.1
70°	3590.0	3555.0	4380.0	6175.0	9680.0	15865.1	25310.1	26425.1	25580.1	23225.1
72.5°	1095.0	1190.0	1820.0	2735.0	4970.0	9895.0	19840.1	20885.1	20620.1	18555.1
75°	485.0	525.0	715.0	1120.0	2015.0	4060.0	12255.1	13185.1	13070.1	10945.1
77.5°	310.0	340.0	450.0	640.0	915.0	1290.0	5645.0	6550.0	6350.0	3845.0
80°	220.0	235.0	320.0	440.0	575.0	530.0	1945.0	2310.0	2215.0	1045.0
82.5°	120.0	130.0	235.0	325.0	385.0	270.0	545.0	680.0	710.0	465.0
85°	45.0	55.0	145.0	230.0	200.0	125.0	160.0	195.0	255.0	255.0
87.5°	0.0	5.0	60.0	100.0	50.0	35.0	45.0	55.0	70.0	120.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P575219

CATALOG NUMBER: EPH-VN-07-740-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3970.0	0°	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0
3990.0	2.5°	4015.0	3980.0	3995.0	4020.0	3965.0	3995.0	3935.0	3980.0	3995.0	3935.0
4050.0	5°	4065.0	4100.0	4080.0	4040.0	4005.0	4015.0	4000.0	3965.0	3995.0	4005.0
4140.0	7.5°	4210.0	4170.0	4180.0	4135.0	4065.0	4060.0	3965.0	3940.0	3950.0	3960.0
4325.0	10°	4345.0	4370.0	4320.0	4285.0	4170.0	4095.0	3965.0	3825.0	3810.0	3750.0
4505.0	12.5°	4585.0	4525.0	4505.0	4390.0	4275.0	4025.0	3745.0	3530.0	3350.0	3285.0
4795.0	15°	4785.0	4775.0	4740.0	4565.0	4300.0	3845.0	3315.0	2815.0	2470.0	2255.0
4965.0	17.5°	5060.0	5015.0	4950.0	4675.0	4115.0	3375.0	2470.0	1840.0	1495.0	1360.0
5290.0	20°	5270.0	5235.0	5145.0	4650.0	3780.0	2515.0	1530.0	1170.0	1085.0	1060.0
5645.0	22.5°	5575.0	5465.0	5295.0	4525.0	3170.0	1675.0	1100.0	1045.0	1030.0	1010.0
5880.0	25°	5840.0	5740.0	5385.0	4310.0	2260.0	1110.0	1020.0	990.0	965.0	940.0
6130.0	27.5°	6075.0	5950.0	5480.0	3870.0	1415.0	955.0	945.0	910.0	860.0	820.0
6420.0	30°	6305.0	6160.0	5505.0	3045.0	955.0	865.0	840.0	785.0	720.0	665.0
6905.0	32.5°	6690.0	6515.0	5470.0	2175.0	825.0	770.0	715.0	650.0	555.0	510.0
7600.0	35°	7290.0	7025.0	5425.0	1280.0	740.0	680.0	595.0	510.0	440.0	395.0
8305.0	37.5°	7980.0	7520.0	5295.0	855.0	680.0	600.0	490.0	405.0	345.0	310.0
9270.0	40°	9005.0	8245.0	4795.0	700.0	605.0	510.0	395.0	320.0	275.0	250.0
10700.1	42.5°	10135.0	9075.0	4025.0	630.0	535.0	435.0	315.0	260.0	225.0	200.0
12130.1	45°	11490.1	9940.0	3105.0	575.0	475.0	360.0	260.0	210.0	180.0	160.0
13805.1	47.5°	13000.1	10725.1	2095.0	520.0	400.0	295.0	215.0	160.0	130.0	115.0
15630.1	50°	14350.1	11420.1	1335.0	455.0	350.0	245.0	175.0	130.0	105.0	85.0
17105.1	52.5°	15575.1	11950.1	920.0	400.0	300.0	200.0	145.0	105.0	80.0	65.0
18635.1	55°	16830.1	12220.1	680.0	345.0	260.0	170.0	120.0	95.0	70.0	55.0
20395.1	57.5°	17860.1	12335.1	520.0	300.0	220.0	135.0	105.0	80.0	60.0	45.0
21745.1	60°	18740.1	12280.1	405.0	250.0	175.0	115.0	90.0	65.0	50.0	35.0
23505.1	62.5°	19255.1	11950.1	320.0	215.0	140.0	100.0	75.0	55.0	35.0	25.0
24410.1	65°	19265.1	11250.1	250.0	160.0	105.0	85.0	65.0	45.0	25.0	10.0
23845.1	67.5°	17885.1	9735.0	200.0	125.0	85.0	65.0	50.0	35.0	10.0	0.0
19805.1	70°	13990.1	7365.0	165.0	100.0	70.0	55.0	35.0	20.0	5.0	0.0
13220.1	72.5°	8915.0	4410.0	135.0	80.0	60.0	40.0	25.0	15.0	0.0	0.0
6035.0	75°	3730.0	1360.0	105.0	70.0	45.0	30.0	20.0	5.0	0.0	0.0
1580.0	77.5°	960.0	430.0	85.0	60.0	45.0	25.0	15.0	5.0	0.0	0.0
425.0	80°	285.0	160.0	70.0	50.0	35.0	20.0	10.0	5.0	0.0	0.0
205.0	82.5°	130.0	95.0	60.0	45.0	30.0	20.0	10.0	0.0	0.0	0.0
95.0	85°	50.0	30.0	30.0	25.0	25.0	15.0	5.0	0.0	0.0	0.0
35.0	87.5°	20.0	10.0	10.0	10.0	5.0	5.0	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



