

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: P232751

Luminaire Tested: **CTN-6-3-D-E1-T5-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CTN-6-3-D-E1-T5-7050  
Description: CELESTEON HIGH MAST LUMINAIRE  
(6) 70 CRI, 5000K LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32110 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 234  
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: 25 FT

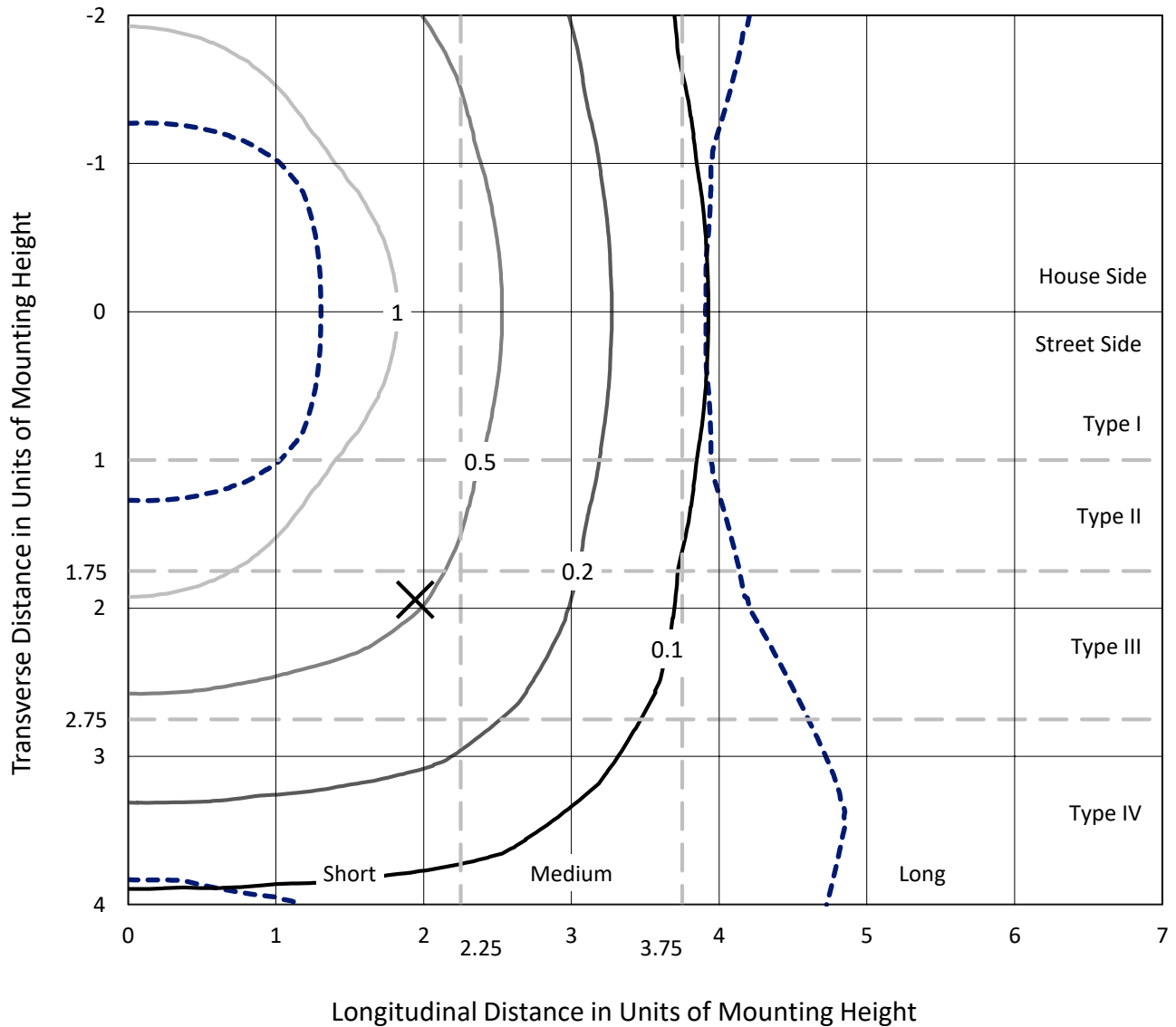


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### Iso-Footcandle Lines of Horizontal Illumination

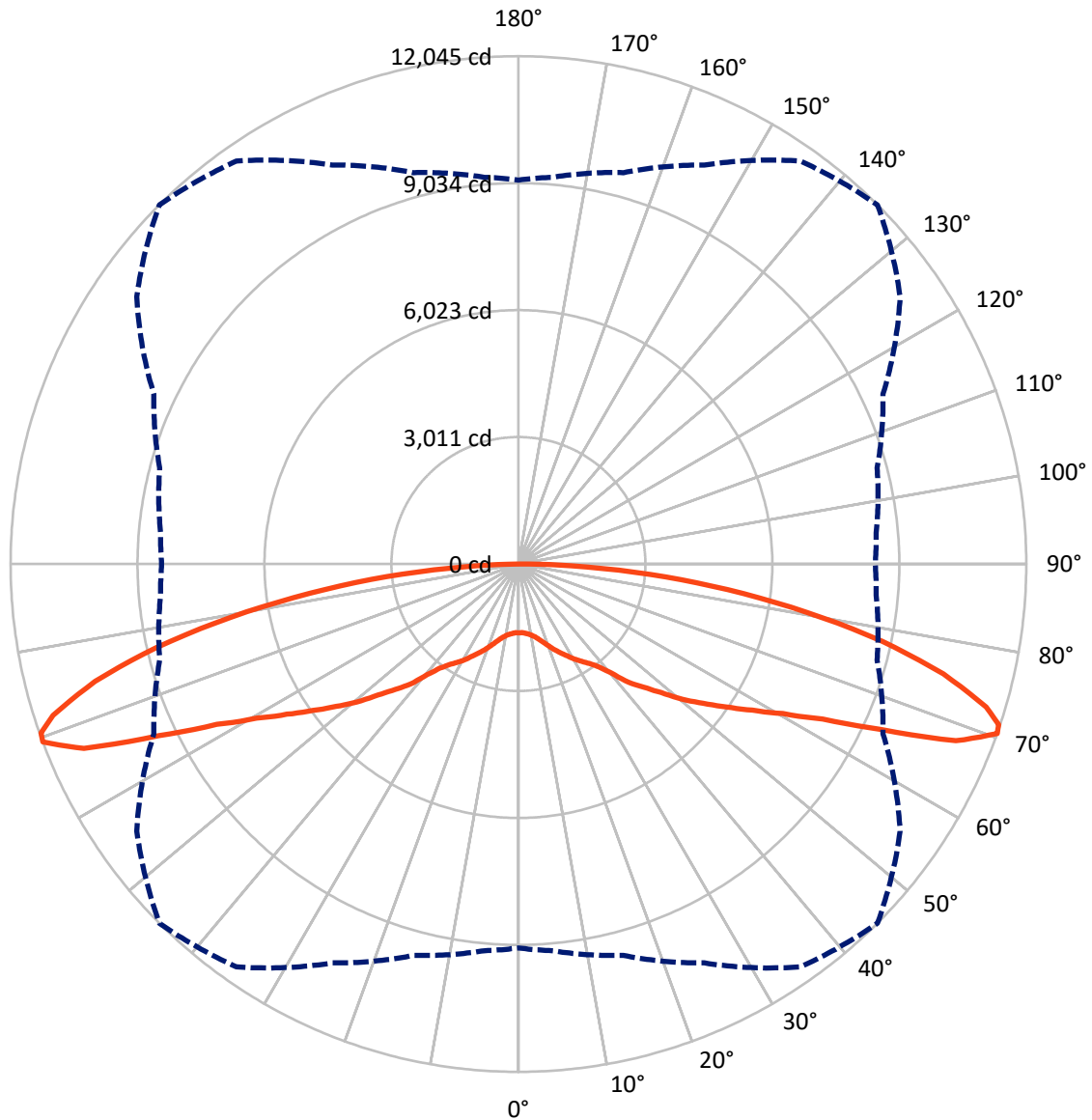
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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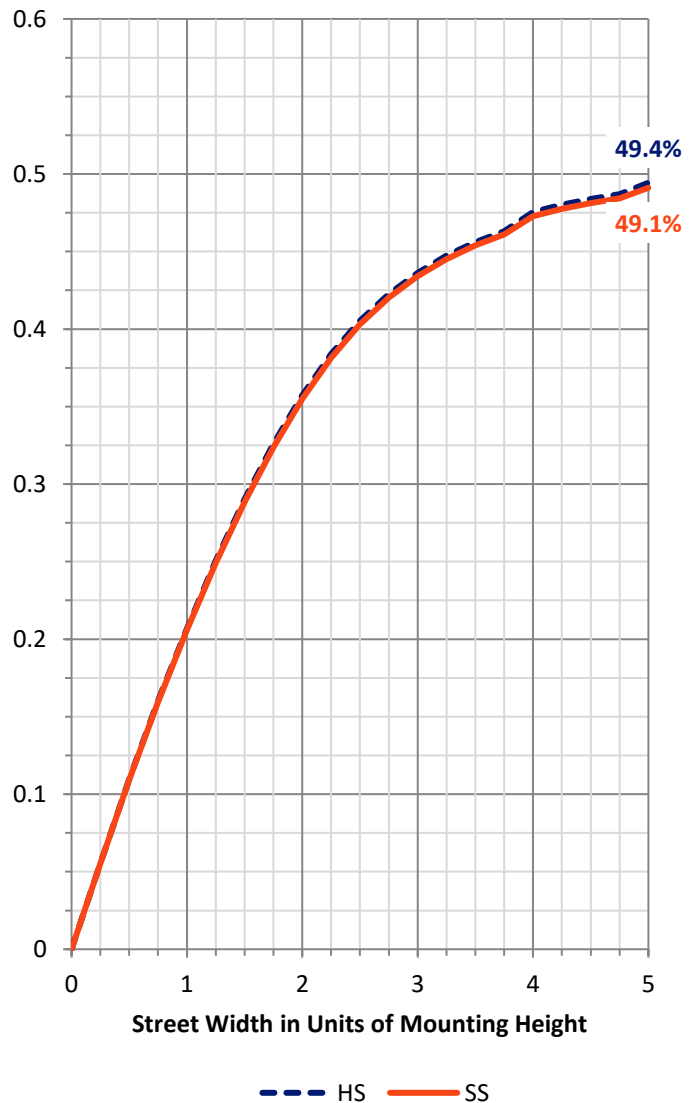
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16055.0	0.0	16055.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16055.0	0.0	16055.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32110.0	0.0	32110.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.0	0.5
10°-20°	532.5	1.7
20°-30°	1064.0	3.3
30°-40°	1829.7	5.7
40°-50°	3385.0	10.5
50°-60°	5753.4	17.9
60°-70°	9273.8	28.9
70°-80°	8196.5	25.5
80°-90°	1915.2	6.0
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°	32110.0	100.0
0°-180°	32110.0	100.0



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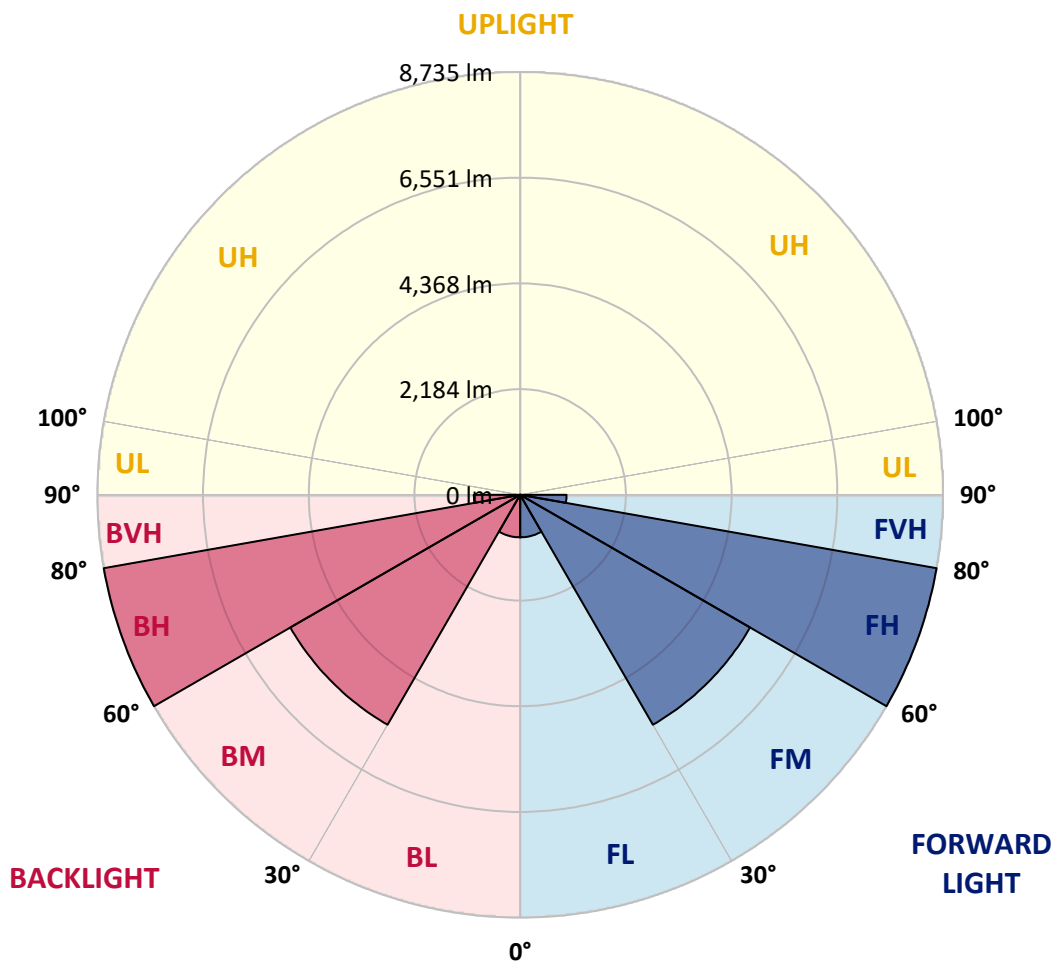
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.2	2.7			
FM	(30°-60°)	5484.1	17.1			
FH	(60°-80°)	8735.1	27.2			G4/12000
FVH	(80°-90°)	957.6	3.0			G5
BL	(0°-30°)	878.2	2.7	B2/1000		
BM	(30°-60°)	5484.1	17.1	B4/8500		
BH	(60°-80°)	8735.1	27.2	B5		G4/12000
BVH	(80°-90°)	957.6	3.0			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4
2.5°	1645.6	1642.5	1643.6	1643.6	1625.4	1629.4	1630.4	1641.5	1641.5	1646.6	1647.6
5°	1661.7	1656.7	1657.7	1661.7	1644.6	1647.6	1647.6	1658.7	1656.7	1662.7	1665.8
7.5°	1690.0	1686.0	1686.0	1690.0	1669.8	1674.9	1671.8	1681.9	1677.9	1680.9	1687.0
10°	1735.5	1734.5	1731.4	1733.5	1711.2	1714.3	1708.2	1719.3	1711.2	1712.2	1723.4
12.5°	1788.0	1787.0	1787.0	1790.0	1770.8	1775.9	1765.8	1769.8	1755.7	1757.7	1766.8
15°	1852.7	1854.7	1856.7	1865.8	1853.7	1858.7	1843.6	1841.5	1825.4	1825.4	1836.5
17.5°	1941.6	1941.6	1942.6	1962.8	1955.7	1963.8	1942.6	1928.4	1912.3	1914.3	1916.3
20°	2052.7	2048.6	2050.7	2074.9	2076.9	2083.0	2049.6	2030.5	2013.3	2014.3	2012.3
22.5°	2170.9	2162.8	2161.8	2195.1	2209.3	2211.3	2164.8	2146.6	2124.4	2127.4	2125.4
25°	2284.0	2275.9	2271.9	2299.2	2336.5	2334.5	2284.0	2257.7	2247.6	2247.6	2249.7
27.5°	2396.1	2386.0	2382.0	2398.2	2456.7	2466.8	2400.2	2376.9	2366.8	2375.9	2380.0
30°	2509.3	2501.2	2499.2	2504.2	2570.9	2615.3	2512.3	2502.2	2501.2	2509.3	2518.4
32.5°	2646.7	2645.6	2637.6	2636.6	2686.1	2750.7	2646.7	2652.7	2668.9	2687.1	2699.2
35°	2823.4	2821.4	2799.2	2809.3	2833.5	2894.1	2834.5	2838.6	2882.0	2909.3	2924.5
37.5°	3058.8	3043.7	3015.4	3016.4	3028.5	3090.1	3066.9	3098.2	3177.0	3227.5	3222.5
40°	3392.2	3367.9	3325.5	3313.4	3311.4	3399.2	3421.5	3492.2	3616.4	3691.2	3686.1
42.5°	3869.0	3843.7	3779.1	3761.9	3769.0	3837.7	3902.3	4014.4	4122.5	4209.4	4204.3
45°	4357.9	4325.6	4221.5	4162.9	4112.4	4164.9	4266.0	4441.7	4571.0	4685.2	4683.2
47.5°	4923.6	4873.1	4747.8	4635.7	4534.7	4553.9	4662.0	4863.0	5019.6	5133.7	5126.6
50°	5537.8	5487.3	5349.9	5181.2	5024.6	5037.7	5090.3	5302.4	5458.0	5569.1	5571.1
52.5°	6194.4	6158.0	6000.4	5777.2	5562.0	5488.3	5521.6	5717.6	5896.4	6001.4	6010.5
55°	6902.5	6867.2	6701.5	6443.9	6148.9	5983.3	5982.3	6179.2	6360.1	6452.0	6466.1
57.5°	7612.7	7593.5	7448.0	7167.2	6795.4	6541.9	6484.3	6689.4	6892.4	6987.4	7006.6
60°	8344.0	8317.8	8196.6	7961.2	7553.1	7205.6	7108.6	7313.7	7543.0	7641.0	7653.1
62.5°	9172.4	9146.1	9053.2	8804.7	8503.6	8101.6	7961.2	8150.1	8362.2	8518.8	8502.6
65°	10000.7	9994.7	10034.1	9921.9	9691.6	9461.3	9184.5	9391.6	9548.2	9533.0	9528.0
67.5°	9868.4	9906.8	10179.5	10568.4	11054.3	11191.7	10552.3	9972.4	9631.0	9433.0	9370.4
70°	9106.7	9205.7	9609.8	10439.1	11664.5	12045.3	11051.3	9540.1	8806.7	8517.8	8462.2
71°	8686.5	8764.3	9230.0	10243.2	11668.5	12012.0	10933.1	9214.8	8469.3	8073.3	8034.9
72.5°	7868.2	7988.5	8502.6	9706.8	11314.0	11602.9	10417.9	8608.7	7827.8	7442.0	7420.7
75°	6290.4	6326.7	6990.4	8358.2	10187.6	10416.9	9248.1	7470.2	6665.1	6401.5	6386.3
77.5°	4439.7	4440.7	5077.1	6515.6	8446.1	8817.8	8009.7	6159.0	5345.8	5014.5	4940.8
80°	2351.7	2447.7	3079.0	4478.1	6326.7	6938.9	6365.1	4656.9	3758.9	3275.0	3207.3
82.5°	1071.8	1140.5	1549.6	2538.6	4160.9	4997.3	4367.0	3023.5	2014.3	1492.0	1448.6
85°	416.2	426.3	639.4	1206.1	2326.4	3134.6	2542.6	1417.3	701.1	428.3	397.0
87.5°	136.4	145.5	208.1	464.7	990.0	1251.6	982.9	426.3	136.4	84.9	81.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)