

Scaled data based on original data using
LM-35-02 Approved Method for Photometric Testing of Floodlights Using High Intensity
Discharge or Incandescent Filament Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **290-75MR16-12-CS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-35-02
Report Number: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 290-75MR16-12-CS
Description: LUMIERE Cambria 290 LOW VOLTAGE IMAGE PROJECTOR
WITH LENS FOCUSED
Light Source: BI PIN MR16 HALOGEN INCANDESCENT LAMP
Q75MR16/NSP 75 WATTS
Ballast/Driver: -

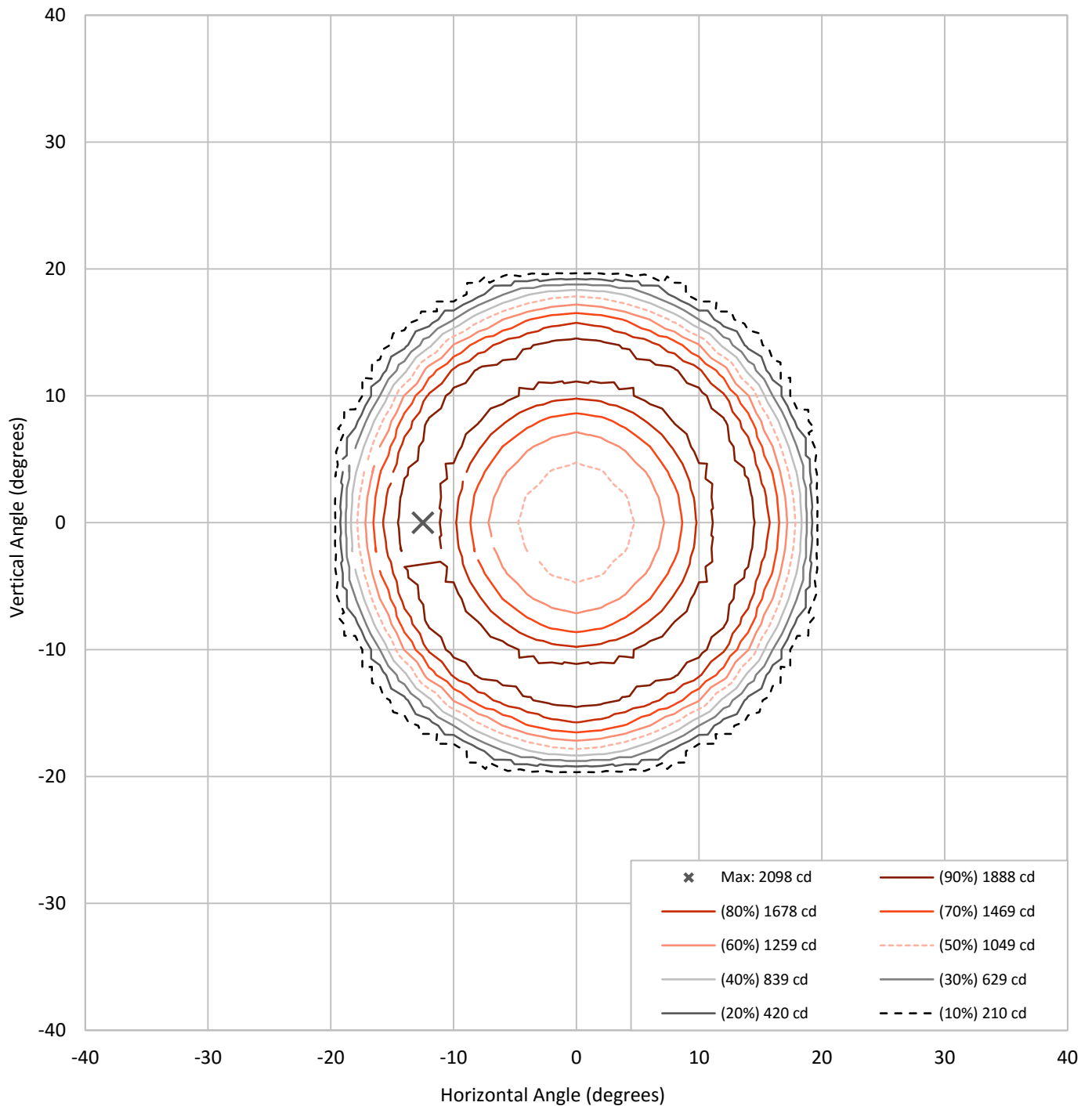
Summary

Lumens per Lamp:	1200 (1 lamp)	NEMA Type:	3H x 3V
Luminaire Lumens:	547.8 lumens	Max Intensity:	2098 candela
Efficiency:	45.6%	Max Intensity Angle:	-12.5°H x 0°V
Efficacy:	7.3 lumens/watt		
Luminous Opening:	Circular (Dia: 0.21' x H: 0')		
Beam Angle (50%):	12.8°H x 25.8°V	Field Angle (10%):	39.3°H x 31.9°V
Beam Lumens:	444.8 lumens	Field Lumens:	525.8 lumens
Beam Efficiency:	81.2%	Field Efficiency:	96.0%
Input Watts (W):	75		
Input Voltage (V):	NR		
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:	25 FT		



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Iso-Candela Plot



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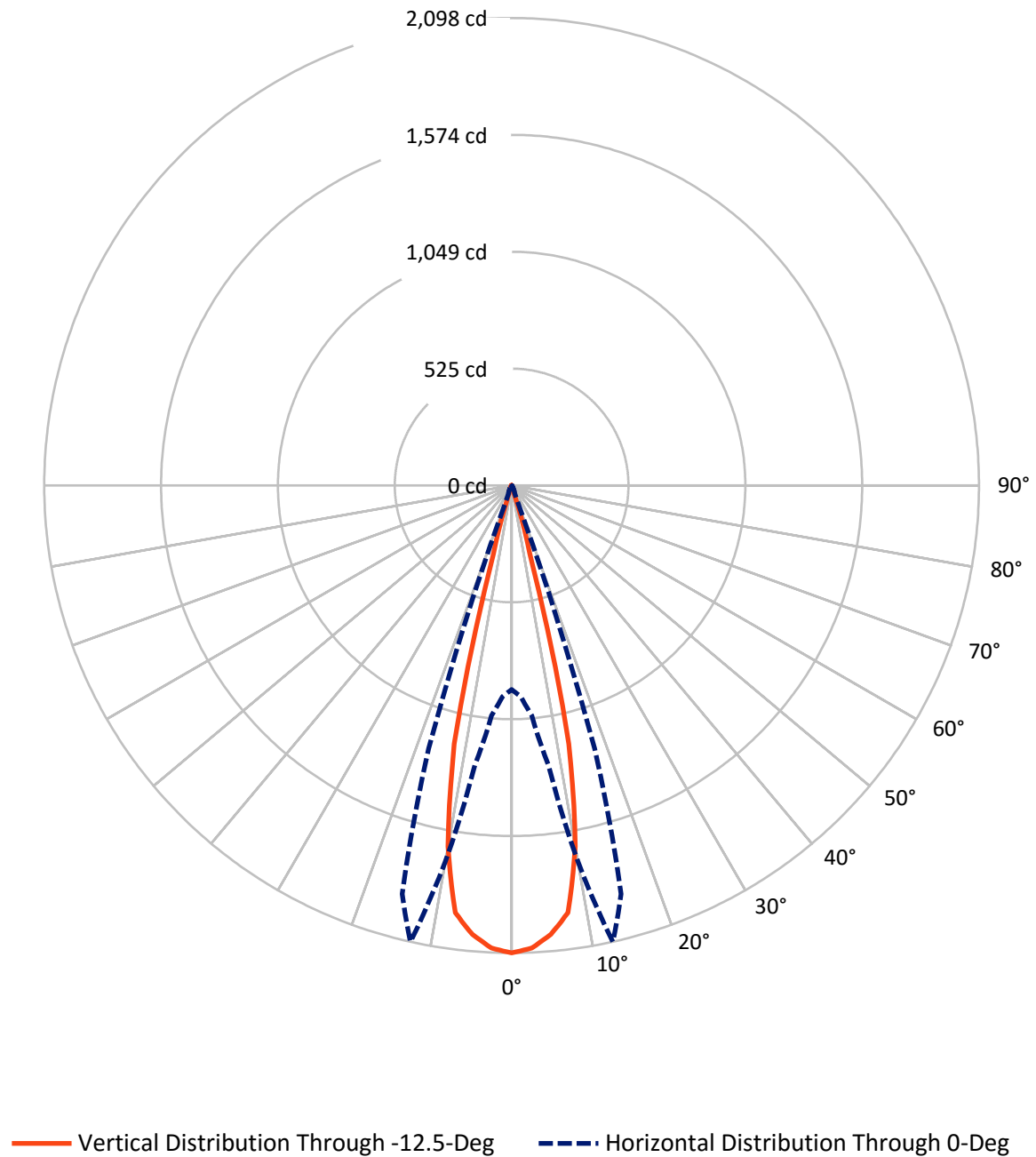
Lumen Table

90	0.0															
80	0.0															
70	0.0															
60	0.0															
50	0.0															
40	0.0															
30	0.0															
20	0.0															
10	0.0															
0	0.0															
-10	0.0															
-20	0.0															
-30	0.0															
-40	0.0															
-50	0.0															
-60	0.0															
-70	0.0															
-80	0.0															
-90	0.0															

Horizontal Angle (degrees)

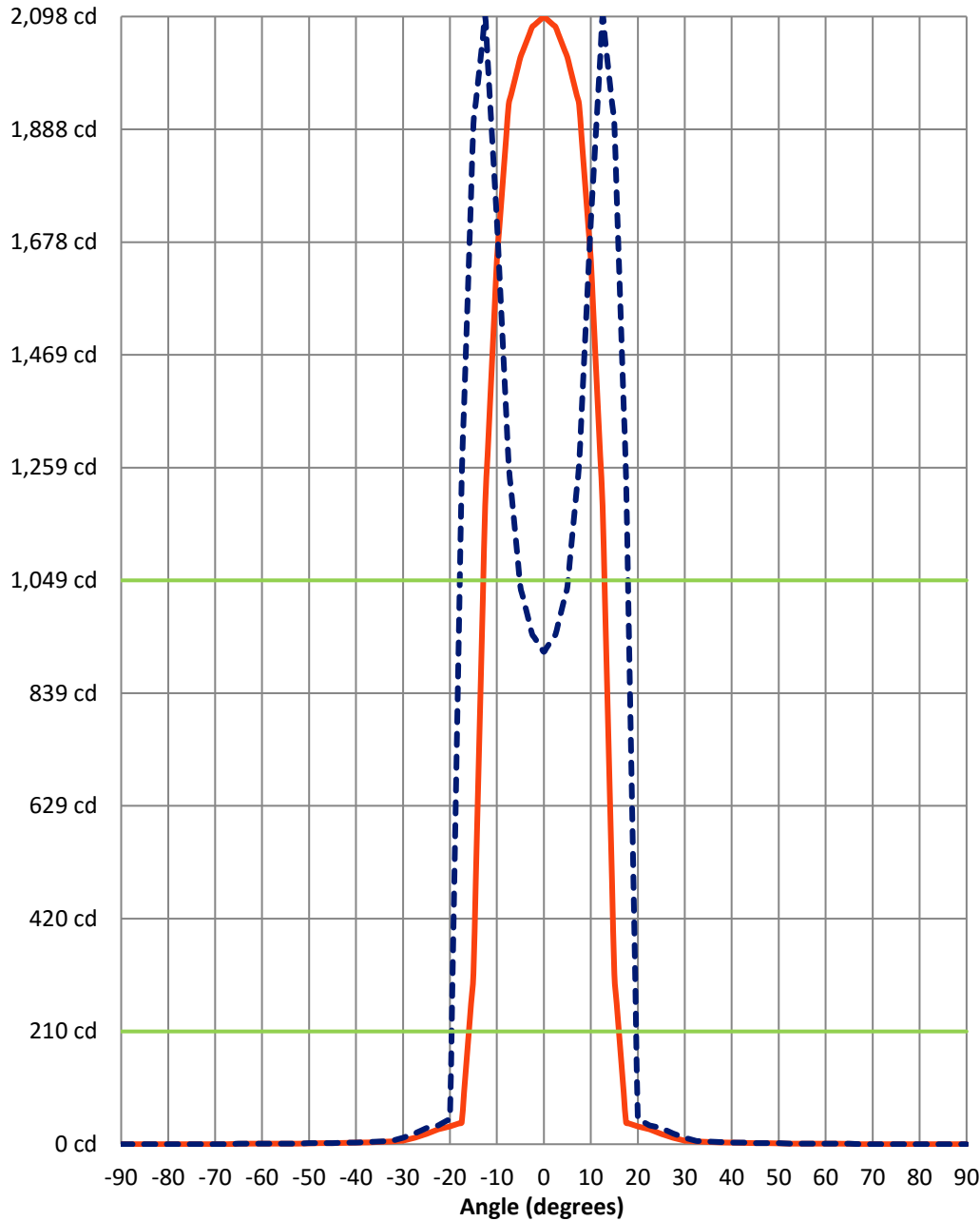
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
H Angle: 12.8°
V Angle: 25.8°
Lumens: 444.8
Efficiency: 81.2%

Field:
H Angle: 39.3°
V Angle: 31.9°
Lumens: 525.8
Efficiency: 96.0%

Spill:
Lumens: 22
Efficiency: 4.0%

— Vertical Distribution through -12.5-Deg
- - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	1
15°	0	0	0	0	0	0	0	0	0	0	1
12.5°	0	0	0	0	0	0	0	0	0	0	1
10°	0	0	0	0	0	0	0	0	0	0	1
7.5°	0	0	0	0	0	0	0	0	0	0	1
5°	0	0	0	0	0	0	0	0	0	0	1
2.5°	0	0	0	0	0	0	0	0	0	0	1
0°	0	0	0	0	0	0	0	0	0	0	1
-2.5°	0	0	0	0	0	0	0	0	0	0	1
-5°	0	0	0	0	0	0	0	0	0	0	1
-7.5°	0	0	0	0	0	0	0	0	0	0	1
-10°	0	0	0	0	0	0	0	0	0	0	1
-12.5°	0	0	0	0	0	0	0	0	0	0	1
-15°	0	0	0	0	0	0	0	0	0	0	1
-17.5°	0	0	0	0	0	0	0	0	0	0	1
-20°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	0	0	0	0	0	0	0	0	0	0
-25°	0	0	0	0	0	0	0	0	0	0	0
-27.5°	0	0	0	0	0	0	0	0	0	0	0
-30°	0	0	0	0	0	0	0	0	0	0	0
-32.5°	0	0	0	0	0	0	0	0	0	0	0
-35°	0	0	0	0	0	0	0	0	0	0	0
-37.5°	0	0	0	0	0	0	0	0	0	0	0
-40°	0	0	0	0	0	0	0	0	0	0	0
-42.5°	0	0	0	0	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0	0	0	0	0
-50°	0	0	0	0	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	1	1
55°	0	0	0	0	0	0	0	1	1	1	1
52.5°	0	0	0	0	0	0	1	1	1	1	1
50°	0	0	0	0	0	1	1	1	1	1	1
47.5°	0	0	0	0	1	1	1	1	1	1	1
45°	0	0	0	1	1	1	1	1	1	1	1
42.5°	0	0	0	1	1	1	1	1	1	1	1
40°	0	0	1	1	1	1	1	1	1	1	1
37.5°	0	0	1	1	1	1	1	1	1	1	2
35°	0	1	1	1	1	1	1	1	1	2	2
32.5°	0	1	1	1	1	1	1	1	1	2	2
30°	0	1	1	1	1	1	1	1	2	2	2
27.5°	1	1	1	1	1	1	1	2	2	2	2
25°	1	1	1	1	1	1	1	2	2	2	2
22.5°	1	1	1	1	1	1	1	2	2	2	3
20°	1	1	1	1	1	1	2	2	2	2	3
17.5°	1	1	1	1	1	1	2	2	2	3	3
15°	1	1	1	1	1	1	2	2	2	3	3
12.5°	1	1	1	1	1	2	2	2	2	3	3
10°	1	1	1	1	1	2	2	2	3	3	4
7.5°	1	1	1	1	1	2	2	2	3	3	4
5°	1	1	1	1	1	2	2	2	3	3	4
2.5°	1	1	1	1	1	2	2	2	3	3	4
0°	1	1	1	1	1	2	2	2	3	3	4
-2.5°	1	1	1	1	1	2	2	2	3	3	4
-5°	1	1	1	1	1	2	2	2	3	3	4
-7.5°	1	1	1	1	1	2	2	2	3	3	4
-10°	1	1	1	1	1	2	2	2	3	3	4
-12.5°	1	1	1	1	1	2	2	2	2	3	3
-15°	1	1	1	1	1	1	2	2	2	3	3
-17.5°	1	1	1	1	1	1	2	2	2	3	3
-20°	1	1	1	1	1	1	2	2	2	2	3



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1	1	1	1	1	1	1	2	2	2	3
-25°	1	1	1	1	1	1	1	2	2	2	2
-27.5°	1	1	1	1	1	1	1	2	2	2	2
-30°	0	1	1	1	1	1	1	1	2	2	2
-32.5°	0	1	1	1	1	1	1	1	1	2	2
-35°	0	1	1	1	1	1	1	1	1	2	2
-37.5°	0	0	1	1	1	1	1	1	1	1	2
-40°	0	0	1	1	1	1	1	1	1	1	1
-42.5°	0	0	0	1	1	1	1	1	1	1	1
-45°	0	0	0	1	1	1	1	1	1	1	1
-47.5°	0	0	0	0	1	1	1	1	1	1	1
-50°	0	0	0	0	0	1	1	1	1	1	1
-52.5°	0	0	0	0	0	0	1	1	1	1	1
-55°	0	0	0	0	0	0	0	1	1	1	1
-57.5°	0	0	0	0	0	0	0	0	0	1	1
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	1	1	1	1
62.5°	0	0	0	1	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1	1	1	1	1
57.5°	1	1	1	1	1	1	1	1	1	1	1
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	1	1	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	1	1	2	2
47.5°	1	1	1	1	1	1	2	2	2	2	2
45°	1	1	1	2	2	2	2	2	2	2	2
42.5°	1	1	2	2	2	2	2	2	2	2	3
40°	2	2	2	2	2	2	2	3	3	3	3
37.5°	2	2	2	2	2	3	3	3	3	3	4
35°	2	2	2	3	3	3	3	4	4	4	5
32.5°	2	2	3	3	3	3	4	4	5	5	5
30°	2	3	3	3	4	4	5	5	6	7	8
27.5°	3	3	3	4	4	5	6	7	9	12	15
25°	3	3	4	4	5	6	8	12	16	19	23
22.5°	3	3	4	5	6	9	13	18	23	28	31
20°	3	4	5	6	8	13	18	25	30	33	36
17.5°	4	4	5	7	12	18	25	31	34	40	47
15°	4	5	6	9	16	23	30	34	42	317	1018
12.5°	4	5	7	12	19	28	33	40	317	1188	1645
10°	5	5	8	15	23	31	36	47	1018	1645	1970
7.5°	5	6	10	17	26	33	41	527	1441	1934	2095
5°	5	6	11	19	28	34	44	915	1689	2022	1895
2.5°	5	6	12	20	30	35	46	1157	1845	2079	1763
0°	5	6	12	20	30	35	47	1239	1898	2098	1717
-2.5°	5	6	12	20	30	35	46	1157	1845	2079	1763
-5°	5	6	11	19	28	34	44	915	1689	2022	1895
-7.5°	5	6	10	17	26	33	41	527	1441	1934	2095
-10°	5	5	8	15	23	31	36	47	1018	1645	1970
-12.5°	4	5	7	12	19	28	33	40	317	1188	1645
-15°	4	5	6	9	16	23	30	34	42	317	1018
-17.5°	4	4	5	7	12	18	25	31	34	40	47
-20°	3	4	5	6	8	13	18	25	30	33	36



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3	3	4	5	6	9	13	18	23	28	31
-25°	3	3	4	4	5	6	8	12	16	19	23
-27.5°	3	3	3	4	4	5	6	7	9	12	15
-30°	2	3	3	3	4	4	5	5	6	7	8
-32.5°	2	2	3	3	3	3	4	4	5	5	5
-35°	2	2	2	3	3	3	3	4	4	4	5
-37.5°	2	2	2	2	2	3	3	3	3	3	4
-40°	2	2	2	2	2	2	2	3	3	3	3
-42.5°	1	1	2	2	2	2	2	2	2	2	3
-45°	1	1	1	2	2	2	2	2	2	2	2
-47.5°	1	1	1	1	1	1	2	2	2	2	2
-50°	1	1	1	1	1	1	1	1	1	2	2
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	1	1
-60°	1	1	1	1	1	1	1	1	1	1	1
-62.5°	0	0	0	1	1	1	1	1	1	1	1
-65°	0	0	0	0	0	0	0	1	1	1	1
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	1	1	1	1	1	1	1	1	1	1	1
62.5°	1	1	1	1	1	1	1	1	1	1	1
60°	1	1	1	1	1	1	1	1	1	1	1
57.5°	1	1	1	1	1	1	1	1	1	1	1
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	1	1	1	1	1	1	1	1	1	1	1
50°	2	2	2	2	2	2	2	2	2	1	1
47.5°	2	2	2	2	2	2	2	2	2	2	2
45°	2	2	2	2	2	2	2	2	2	2	2
42.5°	3	3	3	3	3	3	3	3	2	2	2
40°	3	3	3	3	3	3	3	3	3	3	3
37.5°	4	4	4	4	4	4	4	4	3	3	3
35°	5	5	5	5	5	5	5	5	4	4	4
32.5°	6	6	6	6	6	6	6	5	5	5	4
30°	10	11	12	12	12	11	10	8	7	6	5
27.5°	17	19	20	20	20	19	17	15	12	9	7
25°	26	28	30	30	30	28	26	23	19	16	12
22.5°	33	34	35	35	35	34	33	31	28	23	18
20°	41	44	46	47	46	44	41	36	33	30	25
17.5°	527	915	1157	1239	1157	915	527	47	40	34	31
15°	1441	1689	1845	1898	1845	1689	1441	1018	317	42	34
12.5°	1934	2022	2079	2098	2079	2022	1934	1645	1188	317	40
10°	2095	1895	1763	1717	1763	1895	2095	1970	1645	1018	47
7.5°	1807	1537	1338	1265	1338	1537	1807	2095	1934	1441	527
5°	1537	1225	1091	1037	1091	1225	1537	1895	2022	1689	915
2.5°	1338	1091	985	949	985	1091	1338	1763	2079	1845	1157
0°	1265	1037	949	916	949	1037	1265	1717	2098	1898	1239
-2.5°	1338	1091	985	949	985	1091	1338	1763	2079	1845	1157
-5°	1537	1225	1091	1037	1091	1225	1537	1895	2022	1689	915
-7.5°	1807	1537	1338	1265	1338	1537	1807	2095	1934	1441	527
-10°	2095	1895	1763	1717	1763	1895	2095	1970	1645	1018	47
-12.5°	1934	2022	2079	2098	2079	2022	1934	1645	1188	317	40
-15°	1441	1689	1845	1898	1845	1689	1441	1018	317	42	34
-17.5°	527	915	1157	1239	1157	915	527	47	40	34	31
-20°	41	44	46	47	46	44	41	36	33	30	25



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	33	34	35	35	35	34	33	31	28	23	18
-25°	26	28	30	30	30	28	26	23	19	16	12
-27.5°	17	19	20	20	20	19	17	15	12	9	7
-30°	10	11	12	12	12	11	10	8	7	6	5
-32.5°	6	6	6	6	6	6	6	5	5	5	4
-35°	5	5	5	5	5	5	5	5	4	4	4
-37.5°	4	4	4	4	4	4	4	4	3	3	3
-40°	3	3	3	3	3	3	3	3	3	3	3
-42.5°	3	3	3	3	3	3	3	3	2	2	2
-45°	2	2	2	2	2	2	2	2	2	2	2
-47.5°	2	2	2	2	2	2	2	2	2	2	2
-50°	2	2	2	2	2	2	2	2	2	1	1
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	1	1
-60°	1	1	1	1	1	1	1	1	1	1	1
-62.5°	1	1	1	1	1	1	1	1	1	1	1
-65°	1	1	1	1	1	1	1	1	1	1	1
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	1	1	1	1	0	0	0	0	0	0	0
60°	1	1	1	1	1	1	1	0	0	0	0
57.5°	1	1	1	1	1	1	1	1	1	0	0
55°	1	1	1	1	1	1	1	1	1	1	1
52.5°	1	1	1	1	1	1	1	1	1	1	1
50°	1	1	1	1	1	1	1	1	1	1	1
47.5°	2	1	1	1	1	1	1	1	1	1	1
45°	2	2	2	2	1	1	1	1	1	1	1
42.5°	2	2	2	2	2	1	1	1	1	1	1
40°	2	2	2	2	2	2	2	1	1	1	1
37.5°	3	3	2	2	2	2	2	2	1	1	1
35°	3	3	3	3	2	2	2	2	2	1	1
32.5°	4	3	3	3	3	2	2	2	2	1	1
30°	5	4	4	3	3	3	2	2	2	2	1
27.5°	6	5	4	4	3	3	3	2	2	2	2
25°	8	6	5	4	4	3	3	2	2	2	2
22.5°	13	9	6	5	4	3	3	3	2	2	2
20°	18	13	8	6	5	4	3	3	2	2	2
17.5°	25	18	12	7	5	4	4	3	3	2	2
15°	30	23	16	9	6	5	4	3	3	2	2
12.5°	33	28	19	12	7	5	4	3	3	2	2
10°	36	31	23	15	8	5	5	4	3	3	2
7.5°	41	33	26	17	10	6	5	4	3	3	2
5°	44	34	28	19	11	6	5	4	3	3	2
2.5°	46	35	30	20	12	6	5	4	3	3	2
0°	47	35	30	20	12	6	5	4	3	3	2
-2.5°	46	35	30	20	12	6	5	4	3	3	2
-5°	44	34	28	19	11	6	5	4	3	3	2
-7.5°	41	33	26	17	10	6	5	4	3	3	2
-10°	36	31	23	15	8	5	5	4	3	3	2
-12.5°	33	28	19	12	7	5	4	3	3	2	2
-15°	30	23	16	9	6	5	4	3	3	2	2
-17.5°	25	18	12	7	5	4	4	3	3	2	2
-20°	18	13	8	6	5	4	3	3	2	2	2



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	13	9	6	5	4	3	3	3	2	2	2
-25°	8	6	5	4	4	3	3	2	2	2	2
-27.5°	6	5	4	4	3	3	3	2	2	2	2
-30°	5	4	4	3	3	3	2	2	2	2	1
-32.5°	4	3	3	3	3	2	2	2	2	1	1
-35°	3	3	3	3	2	2	2	2	2	1	1
-37.5°	3	3	2	2	2	2	2	2	1	1	1
-40°	2	2	2	2	2	2	2	1	1	1	1
-42.5°	2	2	2	2	2	1	1	1	1	1	1
-45°	2	2	2	2	1	1	1	1	1	1	1
-47.5°	2	1	1	1	1	1	1	1	1	1	1
-50°	1	1	1	1	1	1	1	1	1	1	1
-52.5°	1	1	1	1	1	1	1	1	1	1	1
-55°	1	1	1	1	1	1	1	1	1	1	1
-57.5°	1	1	1	1	1	1	1	1	1	0	0
-60°	1	1	1	1	1	1	1	0	0	0	0
-62.5°	1	1	1	1	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
52.5°	1	0	0	0	0	0	0	0	0	0	0
50°	1	1	0	0	0	0	0	0	0	0	0
47.5°	1	1	1	0	0	0	0	0	0	0	0
45°	1	1	1	1	0	0	0	0	0	0	0
42.5°	1	1	1	1	0	0	0	0	0	0	0
40°	1	1	1	1	1	0	0	0	0	0	0
37.5°	1	1	1	1	1	0	0	0	0	0	0
35°	1	1	1	1	1	1	0	0	0	0	0
32.5°	1	1	1	1	1	1	0	0	0	0	0
30°	1	1	1	1	1	1	0	0	0	0	0
27.5°	1	1	1	1	1	1	1	0	0	0	0
25°	1	1	1	1	1	1	1	0	0	0	0
22.5°	1	1	1	1	1	1	1	0	0	0	0
20°	2	1	1	1	1	1	1	0	0	0	0
17.5°	2	1	1	1	1	1	1	1	0	0	0
15°	2	1	1	1	1	1	1	1	0	0	0
12.5°	2	2	1	1	1	1	1	1	0	0	0
10°	2	2	1	1	1	1	1	1	0	0	0
7.5°	2	2	1	1	1	1	1	1	0	0	0
5°	2	2	1	1	1	1	1	1	0	0	0
2.5°	2	2	1	1	1	1	1	1	0	0	0
0°	2	2	1	1	1	1	1	1	0	0	0
-2.5°	2	2	1	1	1	1	1	1	0	0	0
-5°	2	2	1	1	1	1	1	1	0	0	0
-7.5°	2	2	1	1	1	1	1	1	0	0	0
-10°	2	2	1	1	1	1	1	1	0	0	0
-12.5°	2	2	1	1	1	1	1	1	0	0	0
-15°	2	1	1	1	1	1	1	1	0	0	0
-17.5°	2	1	1	1	1	1	1	1	0	0	0
-20°	2	1	1	1	1	1	1	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1	1	1	1	1	1	1	0	0	0	0
-25°	1	1	1	1	1	1	1	0	0	0	0
-27.5°	1	1	1	1	1	1	1	0	0	0	0
-30°	1	1	1	1	1	1	0	0	0	0	0
-32.5°	1	1	1	1	1	1	0	0	0	0	0
-35°	1	1	1	1	1	1	0	0	0	0	0
-37.5°	1	1	1	1	1	0	0	0	0	0	0
-40°	1	1	1	1	1	0	0	0	0	0	0
-42.5°	1	1	1	1	0	0	0	0	0	0	0
-45°	1	1	1	1	0	0	0	0	0	0	0
-47.5°	1	1	1	0	0	0	0	0	0	0	0
-50°	1	1	0	0	0	0	0	0	0	0	0
-52.5°	1	0	0	0	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0
0°	0	0	0	0	0	0	0
-2.5°	0	0	0	0	0	0	0
-5°	0	0	0	0	0	0	0
-7.5°	0	0	0	0	0	0	0
-10°	0	0	0	0	0	0	0
-12.5°	0	0	0	0	0	0	0
-15°	0	0	0	0	0	0	0
-17.5°	0	0	0	0	0	0	0
-20°	0	0	0	0	0	0	0



REPORT NUMBER: H45052 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: 290-75MR16-12-CS

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	0	0	0	0	0	0	0
-25°	0	0	0	0	0	0	0
-27.5°	0	0	0	0	0	0	0
-30°	0	0	0	0	0	0	0
-32.5°	0	0	0	0	0	0	0
-35°	0	0	0	0	0	0	0
-37.5°	0	0	0	0	0	0	0
-40°	0	0	0	0	0	0	0
-42.5°	0	0	0	0	0	0	0
-45°	0	0	0	0	0	0	0
-47.5°	0	0	0	0	0	0	0
-50°	0	0	0	0	0	0	0
-52.5°	0	0	0	0	0	0	0
-55°	0	0	0	0	0	0	0
-57.5°	0	0	0	0	0	0	0
-60°	0	0	0	0	0	0	0
-62.5°	0	0	0	0	0	0	0
-65°	0	0	0	0	0	0	0
-67.5°	0	0	0	0	0	0	0
-70°	0	0	0	0	0	0	0
-72.5°	0	0	0	0	0	0	0
-75°	0	0	0	0	0	0	0
-77.5°	0	0	0	0	0	0	0
-80°	0	0	0	0	0	0	0
-82.5°	0	0	0	0	0	0	0
-85°	0	0	0	0	0	0	0
-87.5°	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)