

Scaled data based on original data using  
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires  
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: H45004

Luminaire Tested: **1212 WHITE**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: H45004  
Test Lab: ELK GROVE VILLAGE  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1212 WHITE  
Description: LUMIERE RECESSED WALL MOUNT  
SPECULAR REFLECTOR  
7-1/5 X 1-5/8" LOUVERED OPENING WITH TEMPERED GLASS LENS  
Light Source: T6-1/2 DC BAYONET BASE OUTSIDE FROSTED  
20T6-1/2/DC/F 20 WATTS 90 LUMENS  
Ballast/Driver: -

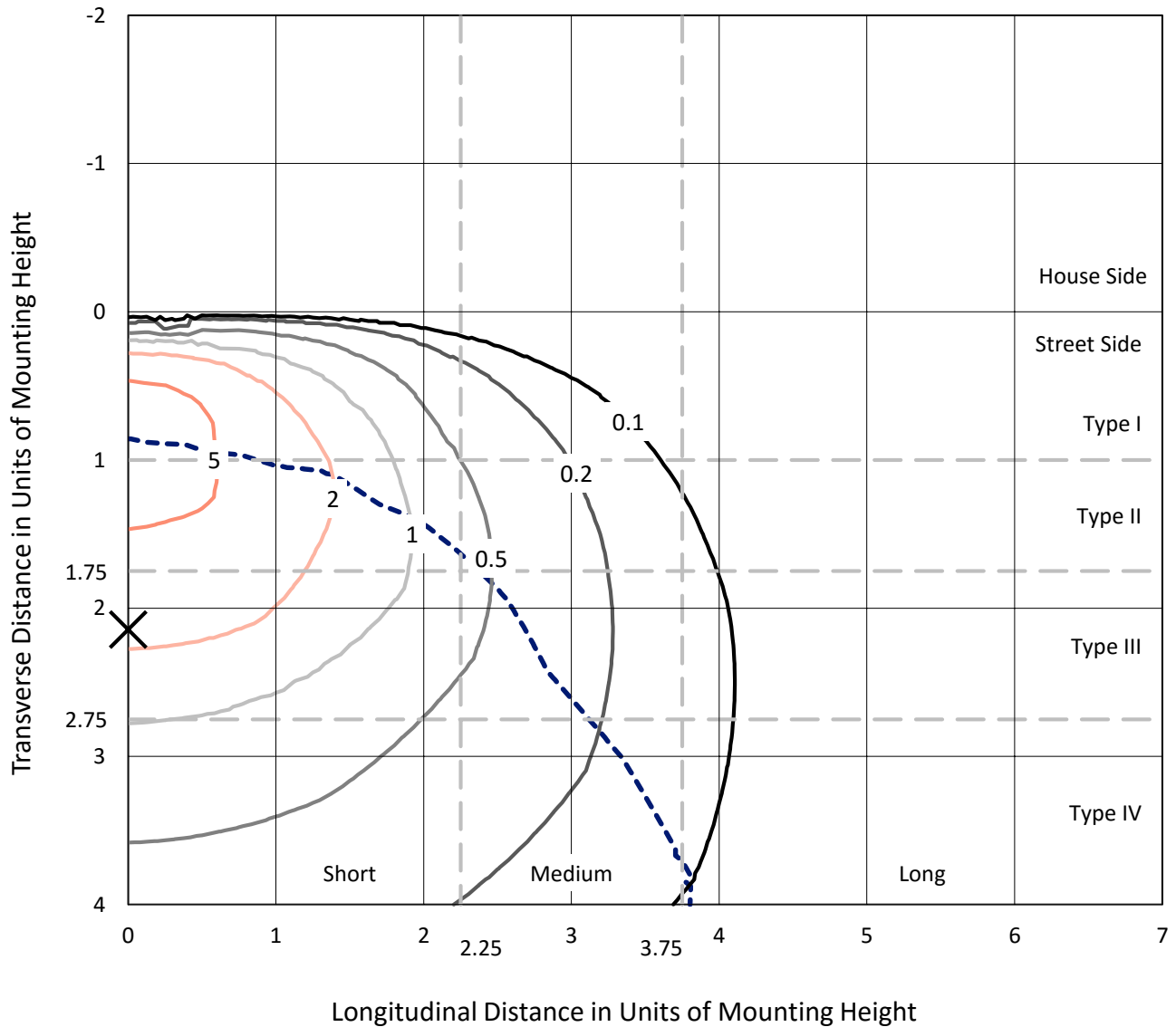
**Summary**

Lumens per Lamp: 90 (1 lamp)  
Luminaire Lumens: 11.5 lumens  
Efficiency: 12.8%  
Efficacy: 0.6 lumens/watt  
Luminous Opening: Rectangular (W 0.63' x L: 0.14' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U1 - G0  
  
Input Watts (W): 20  
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

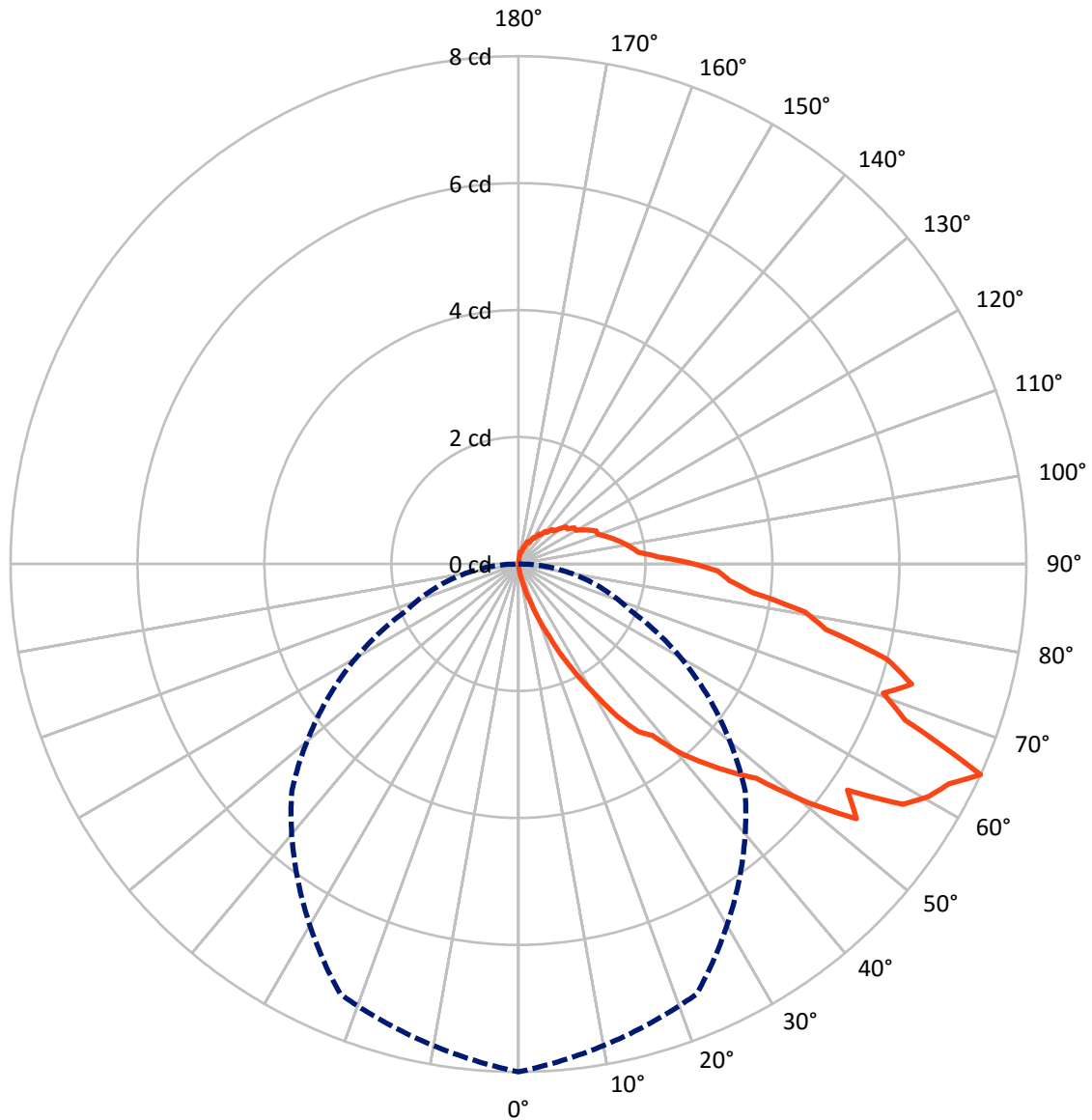
✕ Max cd  
 - - - 1/2 Max cd



Based on 0.5 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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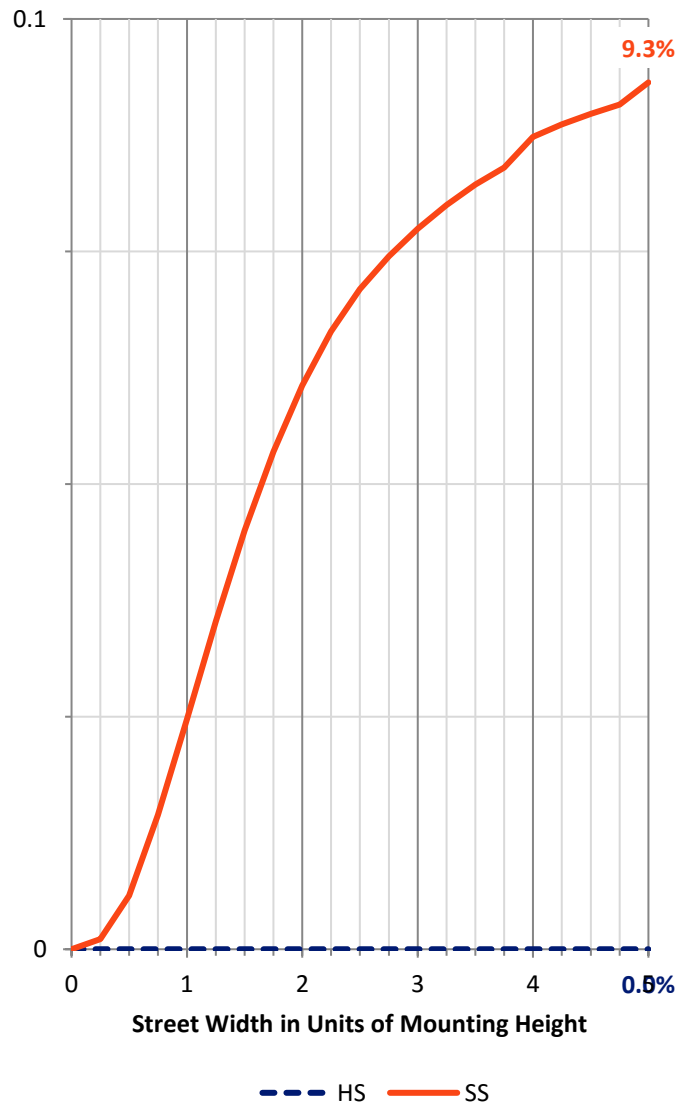
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	0.0	0.0	0.0
	% Lamp	0.0	0.0	0.0
<b>Street Side</b>	Lumens	9.3	2.2	11.5
	% Lamp	10.3	2.5	12.8
<b>Total</b>	Lumens	9.3	2.2	11.5
	% Lamp	10.3	2.5	12.8

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.3	0.0
20°-30°	0.2	1.7	0.2
30°-40°	0.6	4.8	0.6
40°-50°	1.0	9.1	1.2
50°-60°	1.8	15.2	1.9
60°-70°	2.3	19.9	2.6
70°-80°	2.1	18.0	2.3
80°-90°	1.3	11.6	1.5
90°-100°	0.7	6.3	0.8
100°-110°	0.5	4.4	0.6
110°-120°	0.4	3.2	0.4
120°-130°	0.3	2.3	0.3
130°-140°	0.2	1.5	0.2
140°-150°	0.1	1.0	0.1
150°-160°	0.1	0.5	0.1
160°-170°	0.0	0.2	0.0
170°-180°	0.0	0.0	0.0
0°-90°	9.3	80.5	10.3
0°-180°	11.5	100.0	12.8

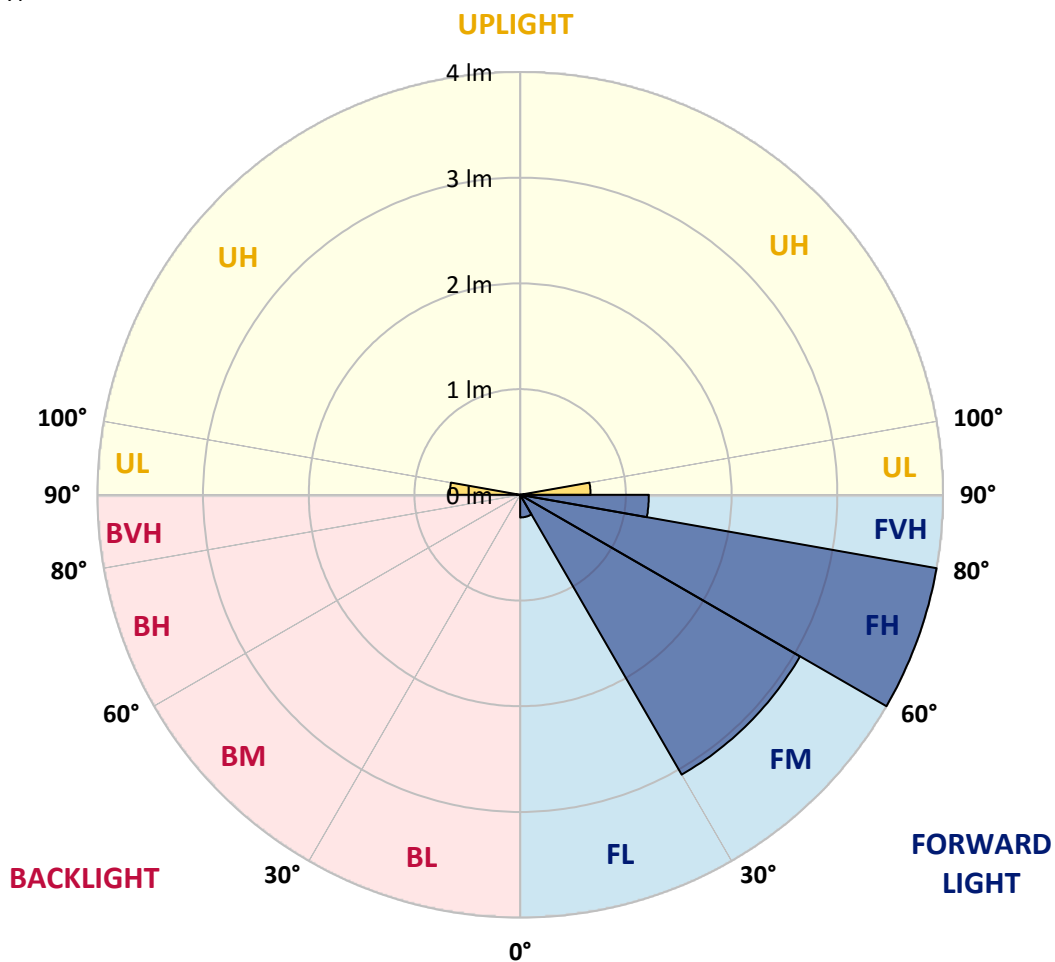


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	0.2	0.3			
FM (30°-60°)	3.3	3.7			
FH (60°-80°)	4.4	4.9			G0/660
FVH (80°-90°)	1.3	1.5			G0/10
BL (0°-30°)	0.0	0.0	B0/110		
BM (30°-60°)	0.0	0.0	B0/220		
BH (60°-80°)	0.0	0.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.7	0.8		U1/10	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	78.5	87.2			

**BUG Rating: B0-U1-G0**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.7	0.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0
20°	1.0	0.8	0.5	0.1	0.0	0.0	0.0	0.0	0.0
22.5°	1.3	1.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0
25°	1.7	1.4	0.8	0.2	0.0	0.0	0.0	0.0	0.0
27.5°	2.1	1.8	1.0	0.3	0.0	0.0	0.0	0.0	0.0
30°	2.5	2.2	1.2	0.3	0.0	0.0	0.0	0.0	0.0
32.5°	3.0	2.6	1.5	0.4	0.0	0.0	0.0	0.0	0.0
35°	3.4	3.0	1.8	0.5	0.0	0.0	0.0	0.0	0.0
37.5°	3.6	3.4	2.1	0.6	0.0	0.0	0.0	0.0	0.0
40°	4.1	3.6	2.4	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	4.5	4.0	2.7	0.8	0.0	0.0	0.0	0.0	0.0
45°	4.9	4.3	3.0	0.9	0.0	0.0	0.0	0.0	0.0
47.5°	5.3	4.7	3.2	1.1	0.0	0.0	0.0	0.0	0.0
50°	6.2	5.2	3.5	1.2	0.0	0.0	0.0	0.0	0.0
52.5°	7.0	6.1	3.7	1.4	0.0	0.0	0.0	0.0	0.0
55°	6.6	6.7	4.0	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	7.5	6.4	4.5	1.7	0.0	0.0	0.0	0.0	0.0
60°	7.8	7.3	5.1	1.9	0.0	0.0	0.0	0.0	0.0
62.5°	8.0	7.3	5.2	2.0	0.0	0.0	0.0	0.0	0.0
65°	8.4	7.7	5.3	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	6.9	7.5	5.7	2.1	0.0	0.0	0.0	0.0	0.0
70°	6.4	6.2	5.6	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	6.8	6.2	5.3	2.2	0.0	0.0	0.0	0.0	0.0
75°	6.3	6.2	4.7	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	5.2	5.4	4.5	2.1	0.0	0.0	0.0	0.0	0.0
80°	4.8	4.7	4.1	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	3.9	3.8	3.3	1.8	0.0	0.0	0.0	0.0	0.0
85°	3.5	3.4	2.9	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.1	2.4	1.3	0.0	0.0	0.0	0.0	0.0
90°	2.8	2.6	2.1	1.1	0.0	0.0	0.0	0.0	0.0
92.5°	2.3	2.2	1.7	0.9	0.0	0.0	0.0	0.0	0.0
95°	2.0	1.8	1.4	0.8	0.0	0.0	0.0	0.0	0.0
97.5°	1.9	1.7	1.3	0.7	0.0	0.0	0.0	0.0	0.0
100°	1.8	1.6	1.2	0.6	0.0	0.0	0.0	0.0	0.0
102.5°	1.7	1.6	1.2	0.5	0.0	0.0	0.0	0.0	0.0
105°	1.6	1.5	1.1	0.5	0.0	0.0	0.0	0.0	0.0
107.5°	1.5	1.4	1.0	0.4	0.0	0.0	0.0	0.0	0.0
110°	1.4	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	1.4	1.2	0.9	0.4	0.0	0.0	0.0	0.0	0.0
115°	1.3	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0
117.5°	1.2	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0
120°	1.1	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0
122.5°	1.1	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0
125°	1.0	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0
127.5°	1.0	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0
130°	0.9	0.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0
132.5°	0.8	0.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0
135°	0.8	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0
137.5°	0.7	0.6	0.5	0.2	0.0	0.0	0.0	0.0	0.0
140°	0.7	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0
142.5°	0.6	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0
145°	0.6	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0
147.5°	0.5	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0
150°	0.5	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0
152.5°	0.4	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0
155°	0.4	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0
157.5°	0.4	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0
160°	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
162.5°	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
165°	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
167.5°	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
170°	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
172.5°	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)