

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: LUMIERE

Report Number: P358923

Luminaire Tested: **1900-OA-XX-12LED3025-UNV-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P358923
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-015-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1900-OA-XX-12LED3025-UNV-BZ
Description: ASPEN BOLLARD OPEN APERTURE
Light Source: (1) 2700K CCT, 80 CRI COB LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 215.8 lumens
Efficiency: N/A
Efficacy: 15.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.29' x H: 0.08')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B0 - U2 - G0

Input Watts (W): 13.9
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

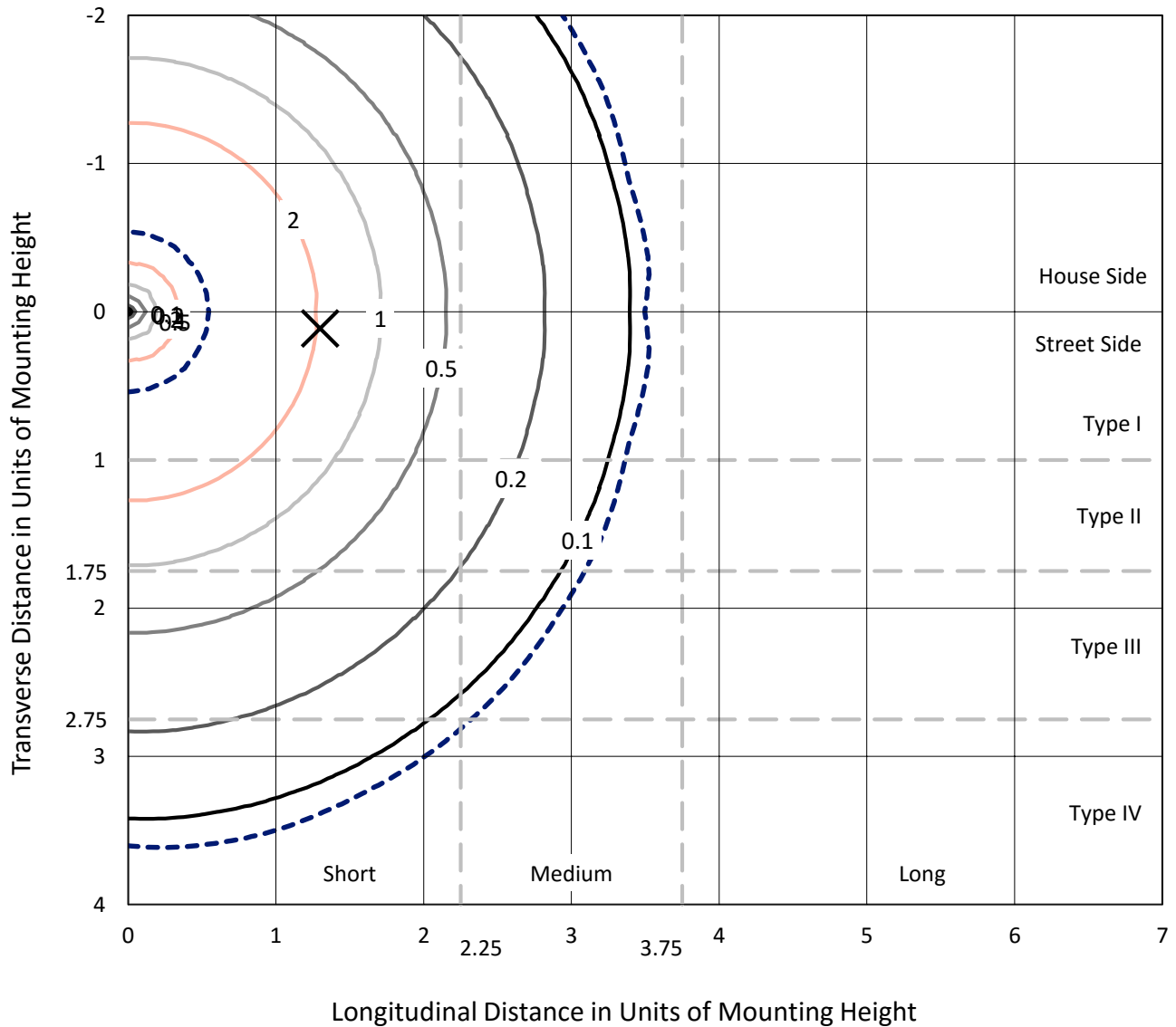


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

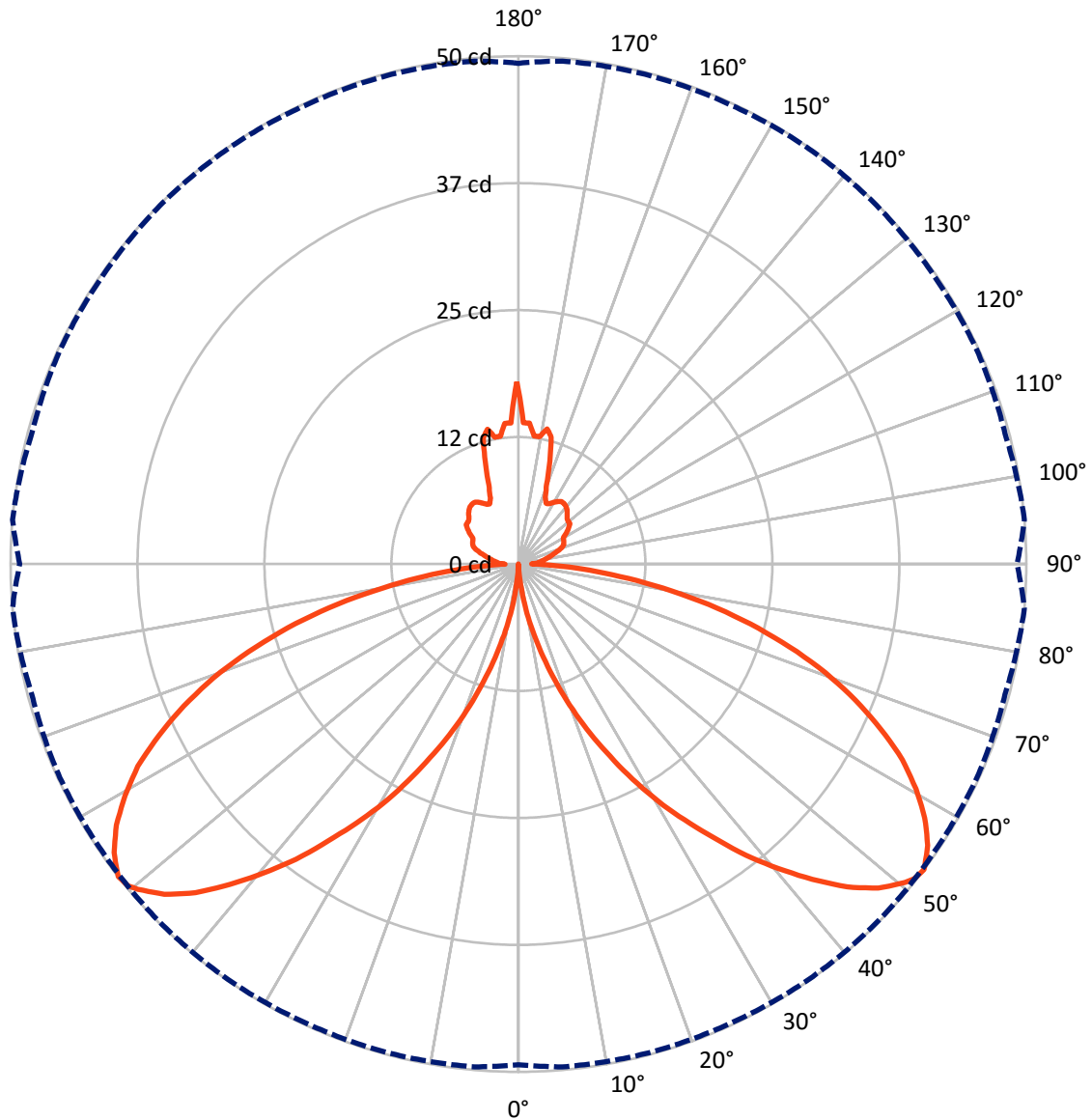


Based on 2.4 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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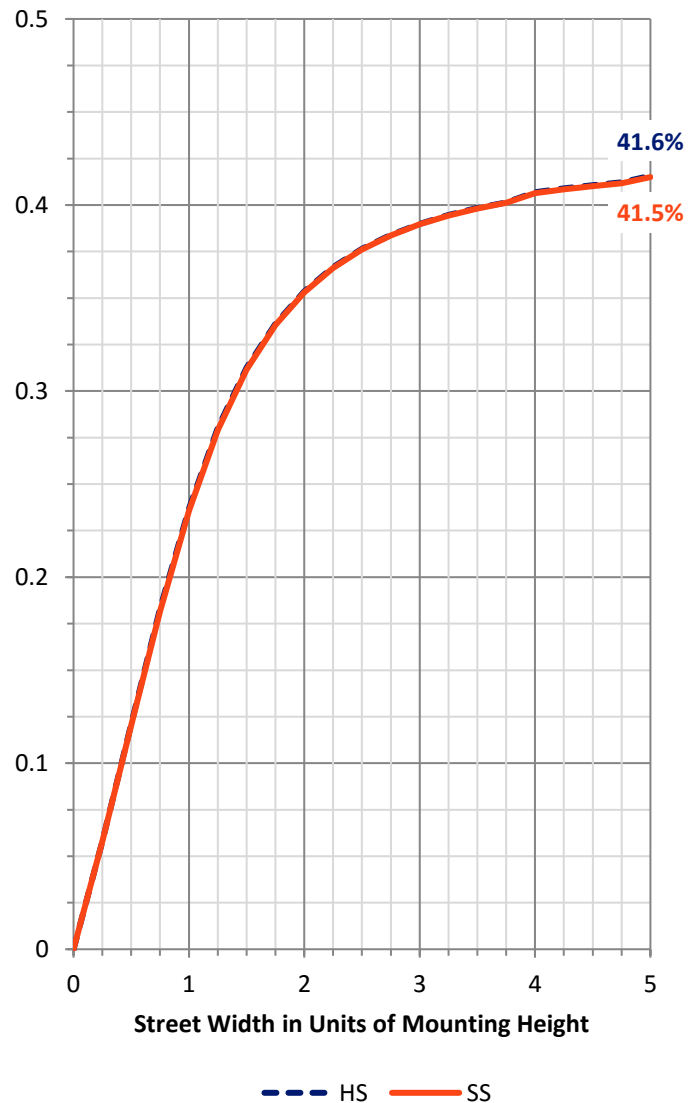
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.1	16.8	107.9
	% Fixture	42.2	7.8	50.0
Street Side	Lumens	91.1	16.8	107.9
	% Fixture	42.2	7.8	50.0
Total	Lumens	182.1	33.6	215.8
	% Fixture	84.4	15.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.3	0.1
10°-20°	3.0	1.4
20°-30°	9.8	4.6
30°-40°	20.7	9.6
40°-50°	34.5	16.0
50°-60°	42.8	19.8
60°-70°	38.6	17.9
70°-80°	24.8	11.5
80°-90°	7.5	3.5
90°-100°	2.3	1.0
100°-110°	3.7	1.7
110°-120°	4.8	2.2
120°-130°	5.3	2.5
130°-140°	5.3	2.4
140°-150°	4.6	2.1
150°-160°	3.2	1.5
160°-170°	3.2	1.5
170°-180°	1.3	0.6
0°-90°	182.1	84.4
0°-180°	215.8	100.0



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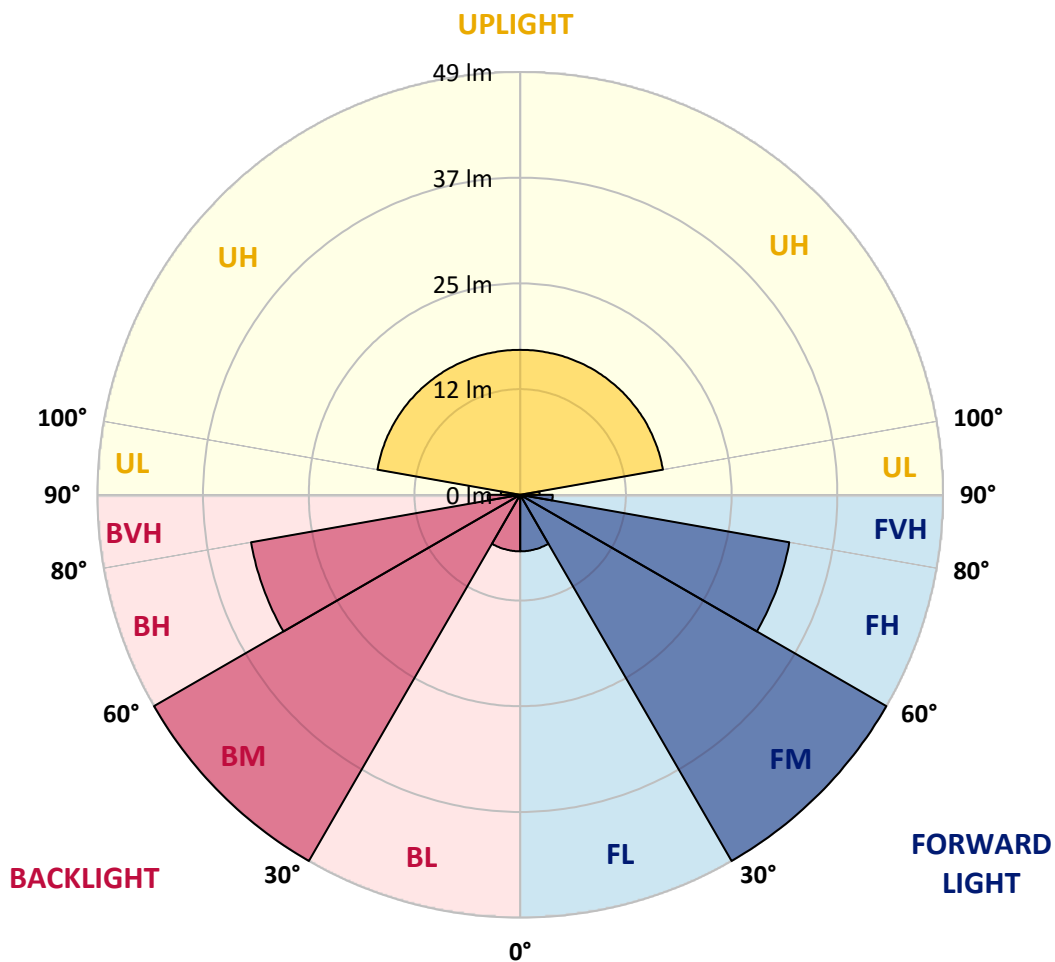
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6.6	3.0			
FM	(30°-60°)	49.0	22.7			
FH	(60°-80°)	31.7	14.7			G0/660
FVH	(80°-90°)	3.8	1.7			G0/10
BL	(0°-30°)	6.6	3.0	B0/110		
BM	(30°-60°)	49.0	22.7	B0/220		
BH	(60°-80°)	31.7	14.7	B0/110		G0/660
BVH	(80°-90°)	3.8	1.7			G0/10
UL	(90°-100°)	2.3	1.0		U1/10	
UH	(100°-180°)	16.8	7.8		U2/50	

BUG Rating: B0-U2-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0.0	0.0	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	0.1	0.0	0.0	0.0	0.0	0.0
5°	1.7	1.5	1.4	1.4	1.3	1.3	1.4	1.3	1.2	1.3	1.2
7.5°	3.7	3.5	3.5	3.4	3.5	3.4	3.5	3.4	3.3	3.4	3.4
10°	5.5	5.4	5.4	5.4	5.4	5.3	5.4	5.3	5.4	5.3	5.2
12.5°	7.8	7.7	7.6	7.7	7.6	7.5	7.7	7.5	7.5	7.5	7.4
15°	10.1	10.0	10.0	10.0	10.0	9.9	10.0	10.0	9.8	9.9	9.8
17.5°	12.7	12.6	12.7	12.7	12.5	12.5	12.7	12.6	12.4	12.5	12.3
20°	15.4	15.3	15.3	15.4	15.3	15.2	15.4	15.3	15.0	15.2	15.0
22.5°	18.1	18.0	18.0	18.0	18.0	17.9	18.0	18.0	17.9	18.0	17.7
25°	20.8	20.9	20.9	21.0	20.9	20.8	20.9	20.9	20.7	20.8	20.6
27.5°	23.7	23.8	23.8	24.0	23.8	23.7	23.8	23.7	23.5	23.8	23.5
30°	26.7	26.8	26.8	26.9	26.8	26.8	26.9	26.8	26.6	26.9	26.5
32.5°	29.4	29.6	29.7	29.8	29.7	29.7	29.6	29.7	29.4	29.8	29.4
35°	32.6	32.7	32.8	32.8	32.8	32.7	32.8	32.7	32.7	32.8	32.4
37.5°	35.5	35.8	36.0	35.9	35.9	35.9	35.9	35.9	35.7	36.1	35.5
40°	38.6	38.8	38.9	39.0	39.0	38.9	39.1	39.0	38.8	39.1	38.5
42.5°	41.5	41.9	42.0	42.1	42.1	42.1	42.0	42.1	42.0	42.1	41.6
45°	44.4	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	45.0	44.4
47.5°	46.8	47.1	47.1	47.2	47.2	47.3	47.2	47.3	47.0	47.3	46.5
50°	48.3	48.7	48.7	48.8	48.8	48.8	48.7	48.8	48.5	48.9	48.2
51°	48.8	49.1	49.1	49.2	49.1	49.1	49.1	49.1	48.9	49.4	48.5
52.5°	48.9	49.3	49.4	49.4	49.5	49.5	49.4	49.4	49.2	49.6	48.7
55°	47.8	48.3	48.4	48.5	48.5	48.4	48.4	48.3	48.0	48.5	47.7
57.5°	46.3	46.7	46.8	46.8	46.8	46.8	46.6	46.6	46.4	46.8	46.1
60°	44.4	44.8	44.8	44.8	44.8	44.8	44.6	44.5	44.2	44.6	44.0
62.5°	42.1	42.5	42.5	42.5	42.4	42.3	42.2	42.1	41.9	42.1	41.6
65°	39.2	39.5	39.5	39.4	39.4	39.4	39.3	39.0	38.6	38.9	38.4
67.5°	35.9	36.3	36.3	36.2	36.2	36.1	36.0	35.6	35.4	35.5	35.2
70°	32.0	32.3	32.3	32.3	32.2	32.0	32.0	31.9	31.4	31.8	31.4
72.5°	27.9	28.4	28.4	28.4	28.1	28.2	27.8	27.8	27.4	27.7	27.3
75°	23.9	24.0	24.1	23.9	23.9	23.7	23.5	23.4	23.1	23.4	23.1
77.5°	19.4	19.5	19.5	19.4	19.4	19.2	19.2	19.2	18.8	19.0	18.7
80°	14.7	14.9	14.9	14.9	14.8	14.6	14.4	14.5	14.0	14.3	14.0
82.5°	10.3	10.4	10.4	10.4	10.4	10.3	10.1	10.1	10.0	10.0	9.8
85°	6.3	6.4	6.4	6.5	6.4	6.3	6.3	6.3	6.2	6.2	6.1
87.5°	3.2	3.3	3.3	3.3	3.3	3.3	3.2	3.3	3.2	3.1	3.2
90°	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.3	1.4
92.5°	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95°	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.0	2.1	2.1
97.5°	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5
100°	2.7	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
102.5°	3.0	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
105°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5
107.5°	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	3.9	4.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	4.4	4.5	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
112.5°	4.7	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
115°	4.7	4.8	4.8	4.8	4.8	4.9	4.8	4.8	4.8	4.9	4.8
117.5°	4.9	4.9	4.9	4.9	4.9	5.0	4.9	5.0	4.9	5.0	4.9
120°	5.0	5.0	5.0	5.1	5.0	5.1	5.1	5.1	5.0	5.1	5.1
122.5°	5.5	5.6	5.6	5.6	5.5	5.6	5.6	5.6	5.6	5.6	5.6
125°	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
127.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
130°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.5
132.5°	6.5	6.6	6.6	6.5	6.5	6.5	6.5	6.4	6.5	6.5	6.6
135°	6.8	6.9	6.9	6.9	6.8	6.9	6.8	6.8	6.8	6.8	7.0
137.5°	7.1	7.1	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.2
140°	7.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.3	7.3
142.5°	7.4	7.4	7.5	7.5	7.4	7.5	7.5	7.4	7.4	7.4	7.5
145°	7.4	7.4	7.5	7.4	7.4	7.5	7.5	7.4	7.4	7.4	7.5
147.5°	7.3	7.4	7.4	7.4	7.3	7.4	7.3	7.3	7.2	7.2	7.3
150°	7.1	7.1	7.0	7.0	7.0	7.1	7.1	7.0	6.9	6.9	7.1
152.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.6	6.5	6.6	6.7
155°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.7
157.5°	7.0	7.0	6.9	7.0	6.9	7.0	7.0	7.0	7.0	7.0	7.1
160°	8.0	8.1	8.1	8.0	8.0	8.1	8.1	8.2	8.2	8.2	8.4
162.5°	10.2	10.3	10.2	10.1	10.1	10.2	10.2	10.4	10.5	10.5	10.6
165°	12.0	12.0	11.9	11.9	12.1	12.4	12.6	12.7	12.8	12.8	13.1
167.5°	13.1	13.2	13.1	12.9	13.0	13.3	13.3	13.3	13.4	13.5	13.6
170°	13.3	13.5	13.4	13.0	12.8	12.8	12.8	12.7	12.7	12.6	12.7
172.5°	13.0	13.1	12.8	12.7	12.4	12.4	12.4	12.5	12.4	12.6	12.7
175°	13.2	13.2	13.2	13.4	13.5	13.8	13.6	13.6	13.8	13.8	14.0
177.5°	16.6	16.5	16.0	15.5	15.2	14.8	14.2	14.0	13.8	13.8	13.9
180°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8

(END OF REPORT)