

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: P832979

Luminaire Tested: **TTN-D0-830-U-WQ-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832979  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND  
Test Lab: INNOVATION CENTER  
Issue Date: 5/15/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: TTN-D0-830-U-WQ-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

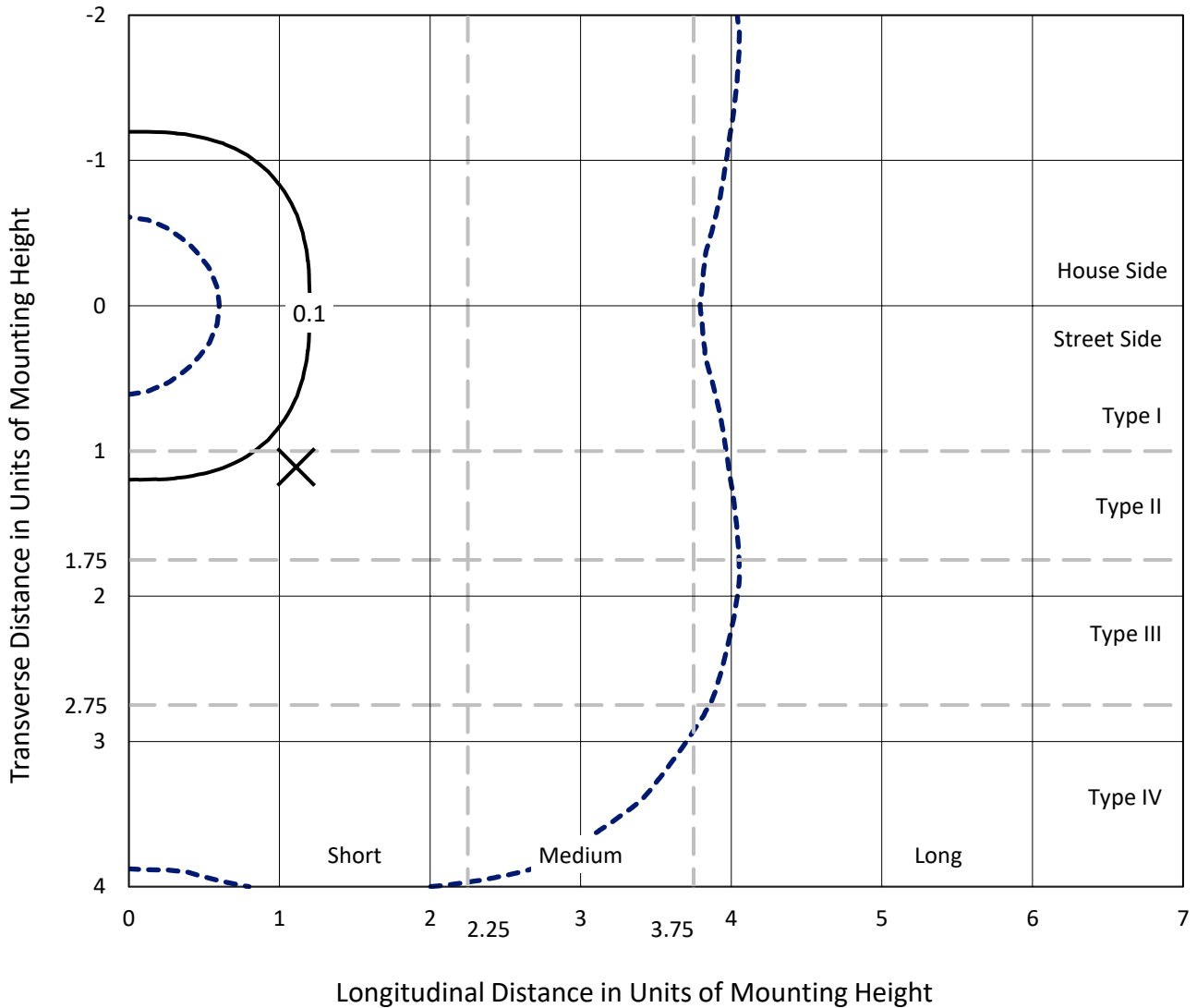
Lumens per Lamp: N/A  
Luminaire Lumens: 1623.8 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G1  
  
Input Watts (W): 15.2  
Input Voltage (V): NR  
Input Current (Ain): 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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

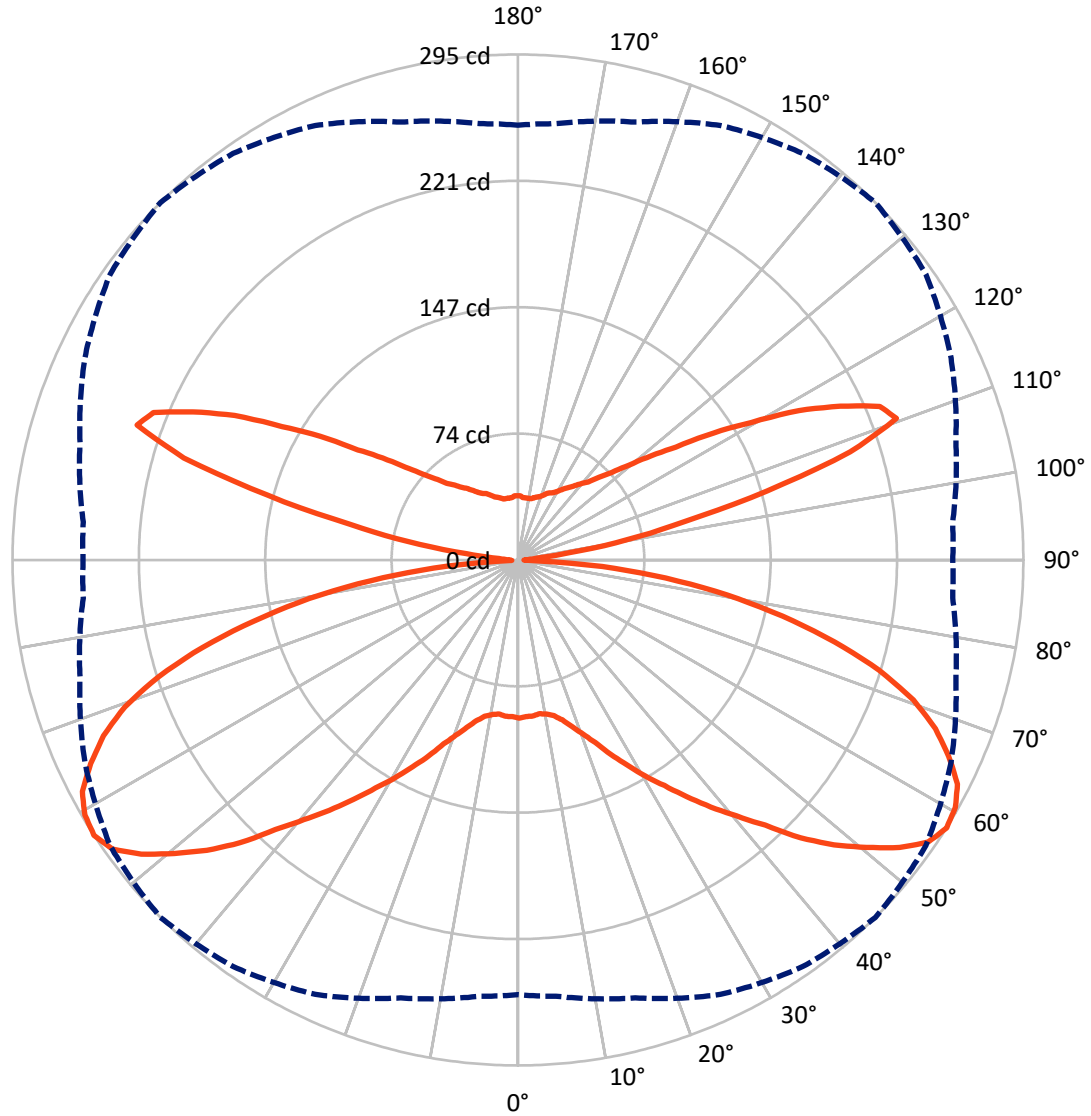
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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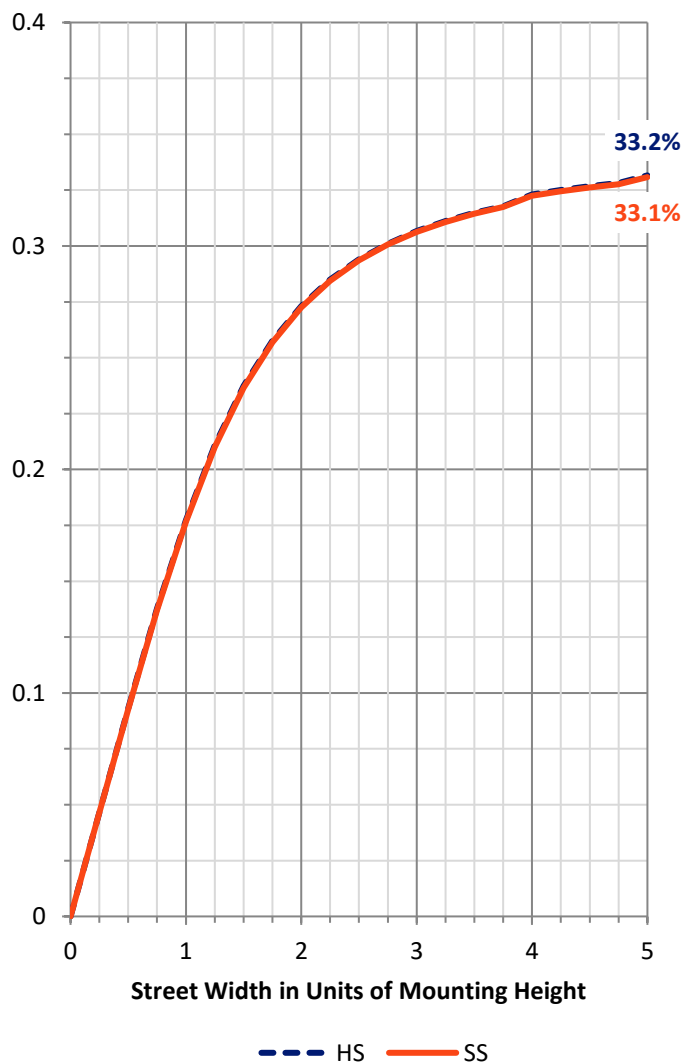
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	544.9	267.0	811.9
	% Fixture	33.6	16.4	50.0
<b>Street Side</b>	Lumens	544.9	267.0	811.9
	% Fixture	33.6	16.4	50.0
<b>Total</b>	Lumens	1089.7	534.0	1623.8
	% Fixture	67.1	32.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.7	0.5
10°-20°	27.7	1.7
20°-30°	58.1	3.6
30°-40°	105.4	6.5
40°-50°	171.8	10.6
50°-60°	240.5	14.8
60°-70°	251.0	15.5
70°-80°	179.4	11.0
80°-90°	47.1	2.9
90°-100°	11.9	0.7
100°-110°	121.1	7.5
110°-120°	177.1	10.9
120°-130°	102.8	6.3
130°-140°	54.4	3.4
140°-150°	32.3	2.0
150°-160°	19.9	1.2
160°-170°	10.9	0.7
170°-180°	3.5	0.2
0°-90°	1089.7	67.1
0°-180°	1623.8	100.0

**Coefficient of Utilization**



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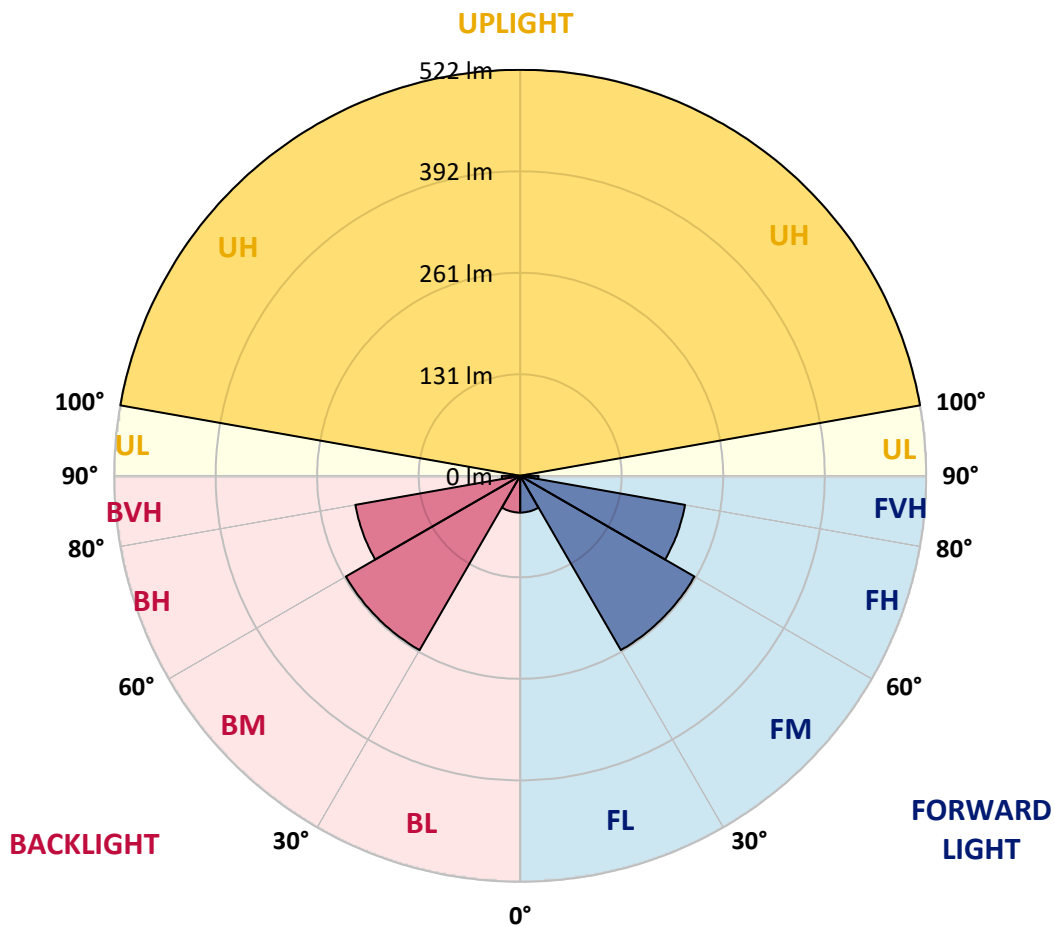
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.2	2.9			
FM (30°-60°)	258.8	15.9			
FH (60°-80°)	215.2	13.3			G0/660
FVH (80°-90°)	23.6	1.5			G1/100
BL (0°-30°)	47.2	2.9	B0/110		
BM (30°-60°)	258.8	15.9	B1/1000		
BH (60°-80°)	215.2	13.3	B1/500		G0/660
BVH (80°-90°)	23.6	1.5			G1/100
UL (90°-100°)	11.9	0.7		U2/50	
UH (100°-180°)	522.1	32.2		U4/1000	

**BUG Rating: B1-U4-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2.5°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
5°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
7.5°	89.6	89.6	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
10°	89.6	89.6	90.5	90.5	91.4	91.4	91.4	90.5	90.5	89.6	89.6
12.5°	91.4	91.4	91.4	92.3	93.2	93.2	93.2	92.3	92.3	91.4	91.4
15°	94.1	95.0	95.0	95.9	96.8	96.8	96.8	95.9	95.9	95.0	95.0
17.5°	99.5	99.5	99.5	100.4	101.3	102.2	102.2	100.4	100.4	99.5	100.4
20°	104.9	105.8	105.8	106.6	107.5	108.4	107.5	106.6	105.8	105.8	105.8
22.5°	112.9	112.9	113.8	113.8	115.6	115.6	115.6	113.8	113.8	113.8	113.8
25°	121.9	121.9	122.8	123.7	125.5	125.5	124.6	122.8	122.8	122.8	123.7
27.5°	132.6	132.6	133.5	133.5	135.3	135.3	134.4	133.5	133.5	133.5	134.4
30°	142.5	142.5	144.3	145.2	146.1	146.1	146.1	144.3	144.3	143.4	143.4
32.5°	151.5	152.4	153.2	155.9	157.7	156.8	157.7	155.9	154.1	153.2	153.2
35°	161.3	162.2	164.0	166.7	169.4	169.4	169.4	166.7	164.9	163.1	164.0
37.5°	173.0	173.0	175.7	178.3	181.9	182.8	181.9	179.2	176.5	174.8	174.8
40°	185.5	185.5	188.2	190.9	195.4	196.3	195.4	191.8	188.2	187.3	187.3
42.5°	198.1	198.1	201.6	204.3	209.7	211.5	209.7	205.2	201.6	199.0	199.9
45°	211.5	212.4	216.9	222.3	228.5	231.2	228.5	223.2	217.8	212.4	212.4
47.5°	226.7	226.7	232.1	238.4	245.6	248.2	244.7	239.3	232.1	227.6	227.6
50°	236.6	237.5	244.7	252.7	261.7	263.5	260.8	252.7	244.7	238.4	237.5
52.5°	246.5	247.3	255.4	267.1	276.0	278.7	275.1	267.1	255.4	247.3	247.3
55°	252.7	254.5	263.5	276.0	285.9	290.4	285.0	276.0	262.6	253.6	252.7
57.5°	253.6	255.4	264.4	279.6	289.5	294.8	290.4	278.7	264.4	254.5	253.6
60°	251.8	252.7	261.7	277.8	289.5	293.1	289.5	276.9	260.8	252.7	250.9
62.5°	247.3	249.1	258.1	271.5	285.0	287.7	284.1	270.6	257.2	247.3	245.6
65°	233.0	234.8	248.2	261.7	273.3	276.0	273.3	261.7	247.3	233.0	231.2
67.5°	216.9	217.8	231.2	247.3	258.1	262.6	258.1	248.2	230.3	216.9	215.1
70°	199.9	200.7	211.5	228.5	239.3	244.7	240.2	229.4	210.6	199.0	198.1
72.5°	180.1	180.1	190.9	204.3	215.1	220.5	216.9	203.4	189.1	177.4	175.7
75°	153.2	154.1	165.8	175.7	187.3	190.9	187.3	176.5	163.1	151.5	149.7
77.5°	125.5	126.4	136.2	144.3	155.0	157.7	155.0	146.1	133.5	123.7	122.8
80°	95.0	95.9	104.0	111.1	120.1	123.7	121.0	112.0	102.2	93.2	90.5
82.5°	61.8	62.7	70.8	76.2	84.2	86.9	85.1	77.1	69.0	60.0	59.1
85°	27.8	28.7	35.8	40.3	46.6	49.3	47.5	40.3	34.1	26.0	24.2
87.5°	2.7	2.7	2.7	2.7	2.7	3.6	3.6	2.7	2.7	2.7	2.7
90°	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6
92.5°	4.6	4.6	4.6	6.4	7.3	6.4	7.3	5.5	5.5	4.6	4.6
95°	5.5	5.5	6.4	8.2	10.1	11.0	11.0	6.4	6.4	5.5	5.5
97.5°	7.3	8.2	8.2	10.1	16.4	30.2	18.3	9.1	9.1	8.2	7.3
100°	11.9	12.8	12.8	22.8	48.4	64.9	46.6	23.8	17.4	12.8	12.8
102.5°	38.4	40.2	49.3	74.0	109.6	99.6	84.1	79.5	54.8	43.9	42.0
105°	97.8	96.8	104.2	123.3	153.5	150.8	138.9	126.1	108.7	100.5	100.5
107.5°	128.8	128.8	135.2	151.7	174.5	203.7	206.5	163.5	143.4	134.3	133.4
110°	145.3	145.3	150.8	164.5	194.6	235.7	233.9	201.9	177.3	165.4	163.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	148.9	149.8	157.1	178.2	211.1	229.3	221.1	208.3	197.4	188.2	186.4
115°	154.4	154.4	162.6	182.7	201.0	208.3	199.2	189.1	181.8	178.2	180.0
117.5°	152.6	155.3	157.1	168.1	180.0	185.5	180.9	167.2	161.7	159.9	157.1
120°	141.6	141.6	143.4	148.9	155.3	158.1	156.2	147.1	142.5	141.6	139.8
122.5°	126.1	127.0	126.1	128.8	133.4	136.1	134.3	127.0	125.2	125.2	123.3
125°	110.6	110.6	109.6	111.5	114.2	113.3	114.2	110.6	109.6	109.6	108.7
127.5°	99.6	98.7	96.8	97.8	98.7	98.7	99.6	95.9	96.8	97.8	96.8
130°	88.6	88.6	86.8	86.8	86.8	85.0	86.8	85.0	85.9	86.8	87.7
132.5°	78.6	78.6	75.8	74.9	74.9	74.9	75.8	74.9	76.7	78.6	78.6
135°	70.4	70.4	67.6	68.5	68.5	67.6	68.5	67.6	69.4	70.4	70.4
137.5°	64.0	64.0	62.1	62.1	62.1	61.2	62.1	62.1	63.0	64.9	65.8
140°	58.5	58.5	57.6	57.6	56.6	57.6	57.6	57.6	58.5	59.4	59.4
142.5°	55.7	54.8	53.9	53.0	53.9	53.9	53.9	53.0	53.9	55.7	55.7
145°	51.2	51.2	50.3	50.3	50.3	51.2	50.3	50.3	51.2	51.2	52.1
147.5°	48.4	48.4	47.5	48.4	48.4	48.4	48.4	47.5	48.4	48.4	49.3
150°	47.5	46.6	45.7	46.6	46.6	45.7	45.7	45.7	45.7	46.6	46.6
152.5°	44.8	44.8	43.9	44.8	43.9	43.9	43.9	43.9	43.9	44.8	45.7
155°	42.9	42.9	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
157.5°	41.1	42.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	42.0	42.0
160°	40.2	40.2	40.2	40.2	39.3	39.3	39.3	40.2	40.2	40.2	41.1
162.5°	39.3	39.3	39.3	39.3	38.4	38.4	38.4	38.4	39.3	39.3	40.2
165°	39.3	38.4	38.4	38.4	37.5	37.5	37.5	37.5	38.4	39.3	38.4
167.5°	37.5	37.5	37.5	37.5	37.5	36.5	36.5	37.5	37.5	37.5	38.4
170°	37.5	37.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	37.5
172.5°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	36.5	36.5	37.5	37.5
175°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	37.5	37.5	37.5	36.5
177.5°	37.5	37.5	37.5	37.5	36.5	37.5	37.5	37.5	37.5	37.5	37.5
180°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5

(END OF REPORT)