

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: P832802

Luminaire Tested: **TTN-D0-735-U-CQ-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832802
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-D0-735-U-CQ-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1701.8 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G0

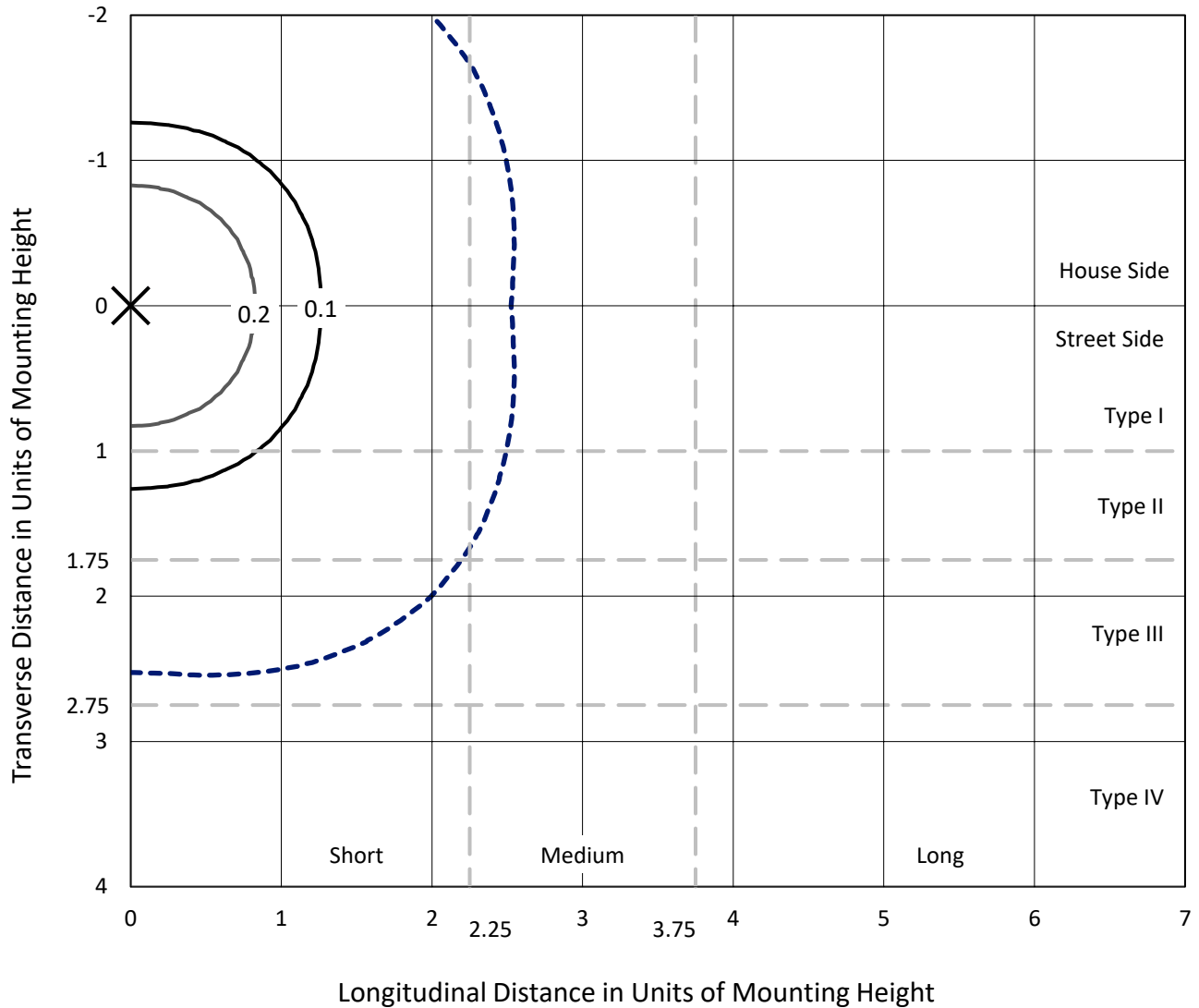
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

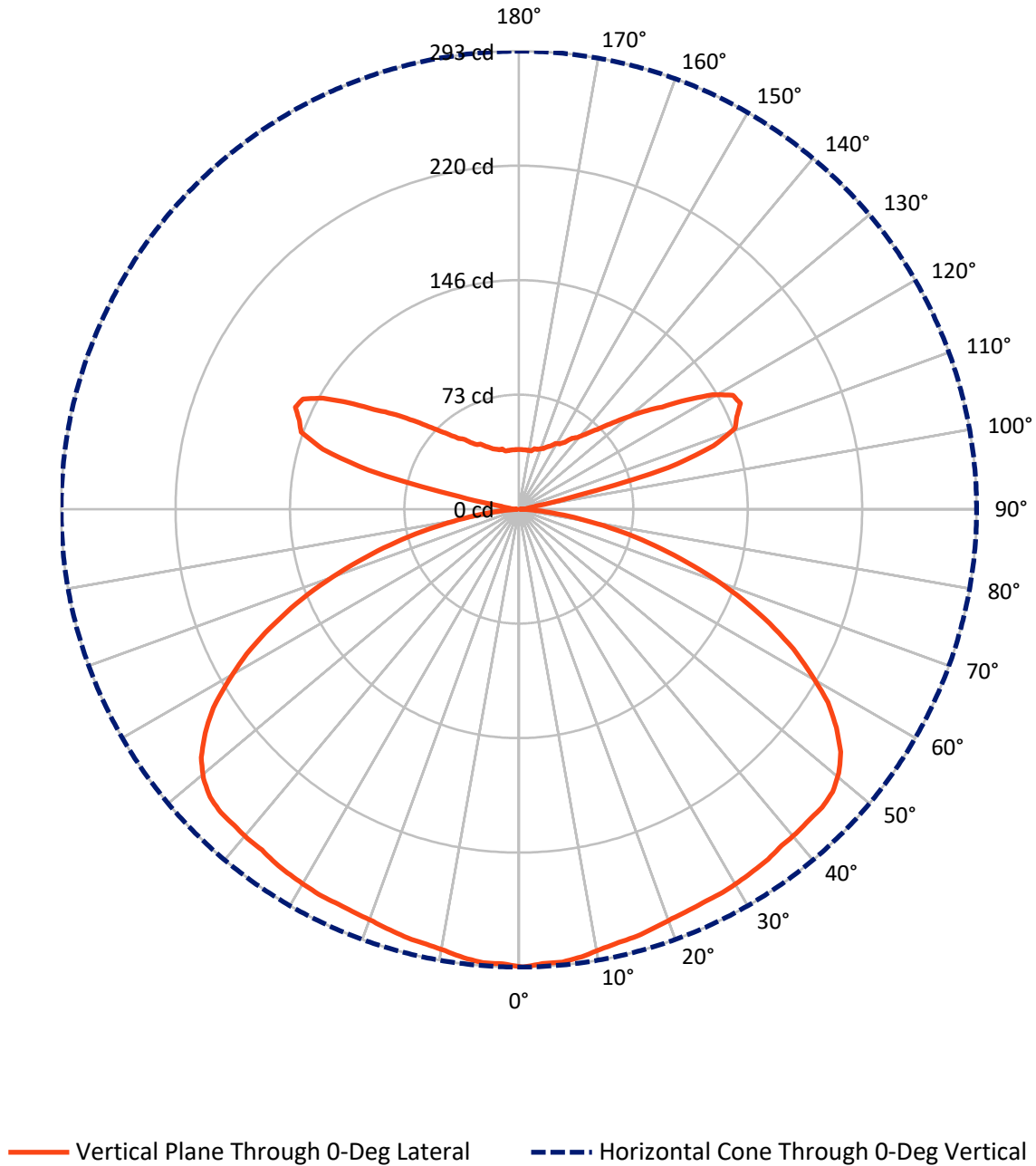
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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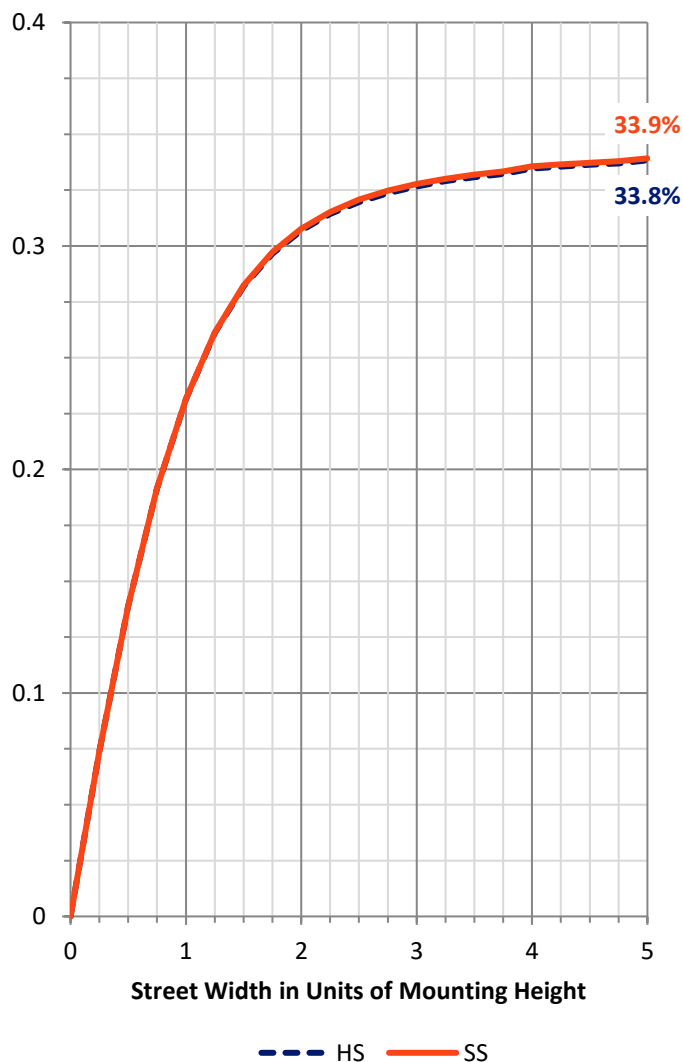
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.4	271.5	850.9
	% Fixture	34.0	16.0	50.0
Street Side	Lumens	579.4	271.5	850.9
	% Fixture	34.0	16.0	50.0
Total	Lumens	1158.8	543.0	1701.8
	% Fixture	68.1	31.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	1.6
10°-20°	80.2	4.7
20°-30°	129.1	7.6
30°-40°	173.6	10.2
40°-50°	214.2	12.6
50°-60°	229.8	13.5
60°-70°	186.4	11.0
70°-80°	98.8	5.8
80°-90°	19.0	1.1
90°-100°	12.1	0.7
100°-110°	123.2	7.2
110°-120°	180.1	10.6
120°-130°	104.5	6.1
130°-140°	55.4	3.3
140°-150°	32.9	1.9
150°-160°	20.2	1.2
160°-170°	11.0	0.6
170°-180°	3.6	0.2
0°-90°	1158.8	68.1
0°-180°	1701.8	100.0

Coefficient of Utilization



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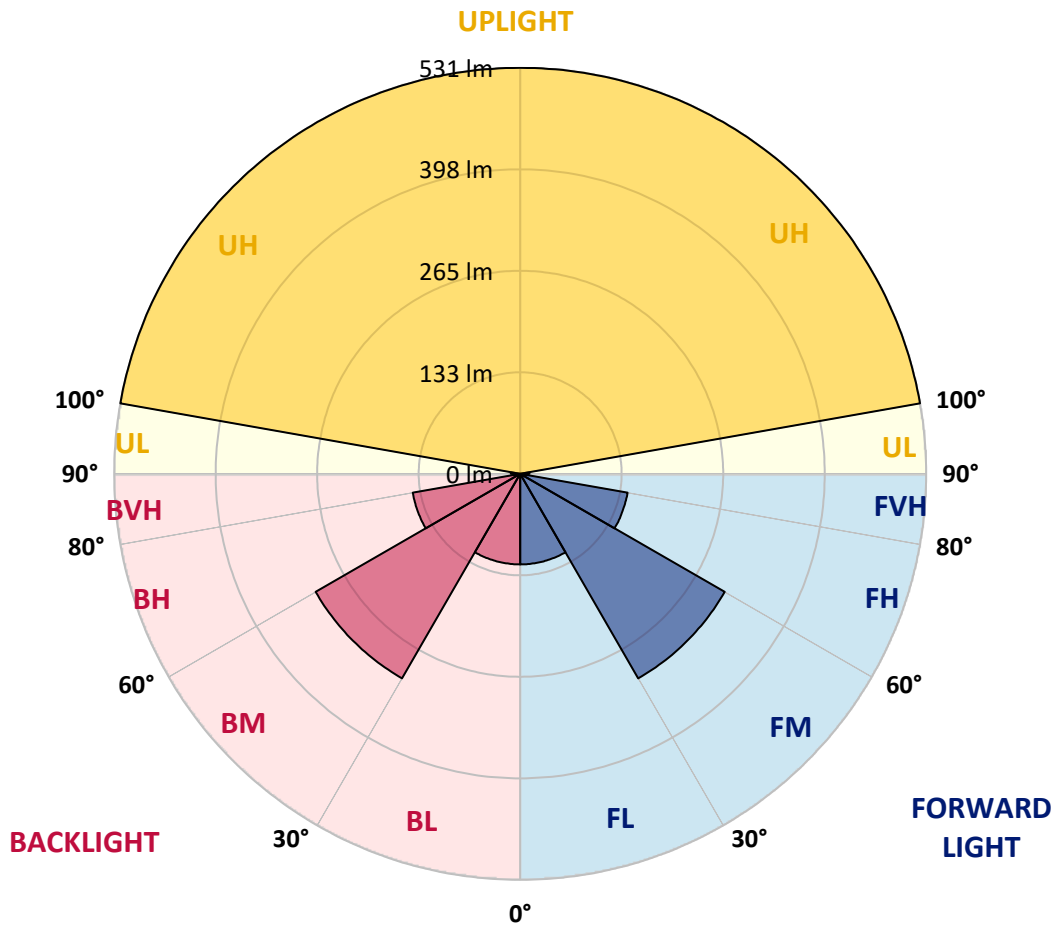
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.4	7.0			
FM (30°-60°)	308.9	18.1			
FH (60°-80°)	142.6	8.4			G0/660
FVH (80°-90°)	9.5	0.6			G0/10
BL (0°-30°)	118.4	7.0	B1/500		
BM (30°-60°)	308.9	18.1	B1/1000		
BH (60°-80°)	142.6	8.4	B1/500		G0/660
BVH (80°-90°)	9.5	0.6			G0/10
UL (90°-100°)	12.1	0.7		U2/50	
UH (100°-180°)	530.9	31.2		U4/1000	

BUG Rating: B1-U4-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	291.9
5°	290.9	290.9	290.9	290.9	290.0	290.9	290.9	290.9	290.9	290.9	290.9
7.5°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
10°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
12.5°	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3
15°	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	282.4	282.4
17.5°	281.4	281.4	281.4	281.4	282.4	282.4	282.4	281.4	281.4	281.4	281.4
20°	279.6	279.6	279.6	280.5	280.5	280.5	280.5	280.5	279.6	279.6	279.6
22.5°	278.6	278.6	278.6	278.6	279.6	279.6	279.6	279.6	278.6	278.6	278.6
25°	277.7	277.7	278.6	278.6	279.6	279.6	279.6	278.6	278.6	277.7	277.7
27.5°	277.7	277.7	278.6	278.6	279.6	279.6	279.6	279.6	278.6	277.7	277.7
30°	276.7	277.7	277.7	278.6	279.6	279.6	279.6	278.6	277.7	276.7	276.7
32.5°	275.8	275.8	276.7	277.7	278.6	278.6	278.6	277.7	276.7	275.8	274.8
35°	274.8	274.8	274.8	276.7	277.7	277.7	277.7	276.7	274.8	273.9	273.9
37.5°	272.9	273.9	274.8	275.8	277.7	277.7	277.7	275.8	273.9	272.9	272.0
40°	272.9	272.9	274.8	275.8	278.6	278.6	277.7	275.8	273.9	272.0	271.0
42.5°	272.0	272.9	274.8	277.7	280.5	280.5	279.6	276.7	273.9	272.0	271.0
45°	272.0	272.0	274.8	278.6	282.4	283.3	281.4	278.6	274.8	271.0	271.0
47.5°	270.1	270.1	273.9	278.6	283.3	284.3	283.3	278.6	273.9	271.0	270.1
50°	265.3	265.3	270.1	275.8	281.4	283.3	281.4	277.7	271.0	267.2	266.3
52.5°	257.8	257.8	262.5	270.1	275.8	278.6	276.7	272.0	265.3	259.6	258.7
55°	246.4	247.3	252.1	260.6	267.2	270.1	268.2	262.5	254.9	249.2	247.3
57.5°	233.1	233.1	239.7	248.3	254.9	257.8	255.9	250.2	241.6	236.0	234.1
60°	215.1	216.1	221.7	233.1	239.7	242.6	240.7	234.1	224.6	218.0	216.1
62.5°	197.1	198.1	203.7	213.2	220.8	222.7	220.8	214.2	205.6	199.0	197.1
65°	176.3	177.2	183.8	192.4	198.1	200.9	198.1	192.4	184.8	178.2	177.2
67.5°	154.5	155.4	162.0	169.6	175.3	177.2	174.4	169.6	162.0	156.4	154.5
70°	131.7	132.7	138.4	145.0	149.7	151.6	149.7	144.0	138.4	132.7	131.7
72.5°	108.0	109.0	114.7	120.3	124.1	126.0	123.2	119.4	113.7	109.0	108.0
75°	85.3	85.3	90.0	94.8	98.6	99.5	97.6	94.8	90.0	86.2	84.3
77.5°	63.5	63.5	68.2	71.1	73.0	74.9	73.0	70.1	67.3	63.5	63.5
80°	42.6	42.6	46.4	48.3	50.2	51.2	50.2	48.3	46.4	43.6	42.6
82.5°	25.6	25.6	27.5	29.4	29.4	30.3	30.3	29.4	27.5	25.6	25.6
85°	11.4	10.4	12.3	13.3	13.3	14.2	14.2	13.3	12.3	11.4	11.4
87.5°	0.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9
90°	4.6	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.6	4.6
92.5°	4.6	4.6	4.6	6.5	7.4	6.5	7.4	5.6	5.6	4.6	4.6
95°	5.6	5.6	6.5	8.4	10.2	11.1	11.1	6.5	6.5	5.6	5.6
97.5°	7.4	8.4	8.4	10.2	16.7	30.7	18.6	9.3	9.3	8.4	7.4
100°	12.1	13.0	13.0	23.2	49.2	66.0	47.4	24.2	17.7	13.0	13.0
102.5°	39.0	40.9	50.2	75.3	111.5	101.3	85.5	80.8	55.7	44.6	42.7
105°	99.4	98.5	105.9	125.4	156.1	153.3	141.2	128.2	110.6	102.2	102.2
107.5°	131.0	131.0	137.5	154.2	177.4	207.2	210.0	166.3	145.9	136.6	135.6
110°	147.7	147.7	153.3	167.2	197.9	239.7	237.8	205.3	180.2	168.2	166.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	151.4	152.4	159.8	181.2	214.6	233.2	224.8	211.8	200.7	191.4	189.5
115°	157.0	157.0	165.4	185.8	204.4	211.8	202.5	192.3	184.9	181.2	183.0
117.5°	155.1	157.9	159.8	170.9	183.0	188.6	183.9	170.0	164.4	162.6	159.8
120°	144.0	144.0	145.9	151.4	157.9	160.7	158.9	149.6	144.9	144.0	142.1
122.5°	128.2	129.1	128.2	131.0	135.6	138.4	136.6	129.1	127.3	127.3	125.4
125°	112.4	112.4	111.5	113.3	116.1	115.2	116.1	112.4	111.5	111.5	110.6
127.5°	101.3	100.3	98.5	99.4	100.3	100.3	101.3	97.5	98.5	99.4	98.5
130°	90.1	90.1	88.3	88.3	88.3	86.4	88.3	86.4	87.3	88.3	89.2
132.5°	79.9	79.9	77.1	76.2	76.2	76.2	77.1	76.2	78.0	79.9	79.9
135°	71.5	71.5	68.7	69.7	69.7	68.7	69.7	68.7	70.6	71.5	71.5
137.5°	65.0	65.0	63.2	63.2	63.2	62.2	63.2	63.2	64.1	66.0	66.9
140°	59.5	59.5	58.5	58.5	57.6	58.5	58.5	58.5	59.5	60.4	60.4
142.5°	56.7	55.7	54.8	53.9	54.8	54.8	54.8	53.9	54.8	56.7	56.7
145°	52.0	52.0	51.1	51.1	51.1	52.0	51.1	51.1	52.0	52.0	53.0
147.5°	49.2	49.2	48.3	49.2	49.2	49.2	49.2	48.3	49.2	49.2	50.2
150°	48.3	47.4	46.5	47.4	47.4	46.5	46.5	46.5	46.5	47.4	47.4
152.5°	45.5	45.5	44.6	45.5	44.6	44.6	44.6	44.6	44.6	45.5	46.5
155°	43.7	43.7	42.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
157.5°	41.8	42.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.7	42.7
160°	40.9	40.9	40.9	40.9	39.9	39.9	39.9	40.9	40.9	40.9	41.8
162.5°	39.9	39.9	39.9	39.9	39.0	39.0	39.0	39.0	39.9	39.9	40.9
165°	39.9	39.0	39.0	39.0	38.1	38.1	38.1	38.1	39.0	39.9	39.0
167.5°	38.1	38.1	38.1	38.1	38.1	37.2	37.2	38.1	38.1	38.1	39.0
170°	38.1	38.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	38.1
172.5°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	37.2	37.2	38.1	38.1
175°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	38.1	38.1	38.1	37.2
177.5°	38.1	38.1	38.1	38.1	37.2	38.1	38.1	38.1	38.1	38.1	38.1
180°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1

(END OF REPORT)