

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: P832811

Luminaire Tested: **TTN-D0-735-U-MQ-CG-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832811  
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-MQ-CG-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

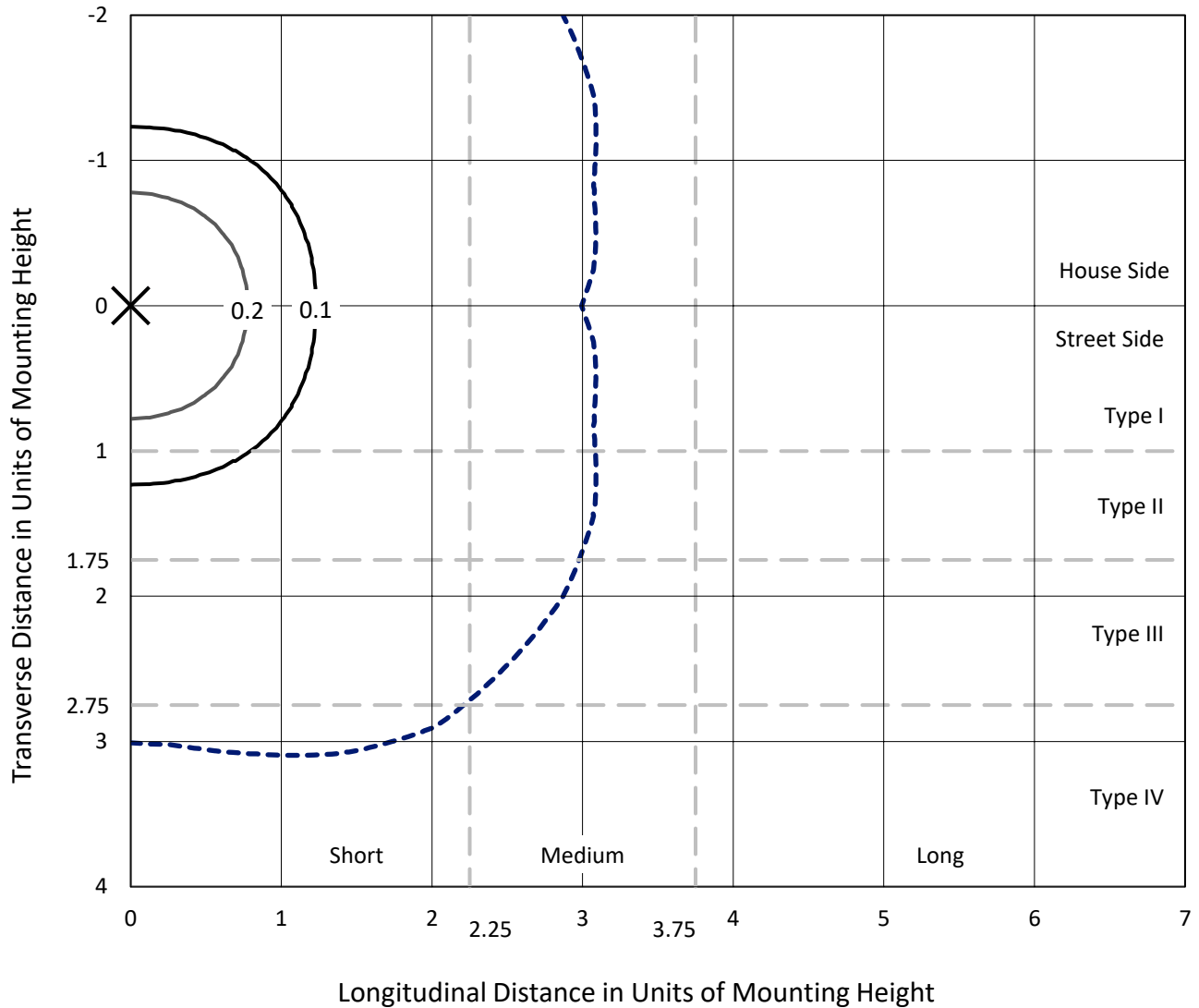
Lumens per Lamp: N/A  
Luminaire Lumens: 1711.7 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G1  
  
Input Watts (W): 15.2  
Input Voltage (V): NR  
Input Current (Ain): 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

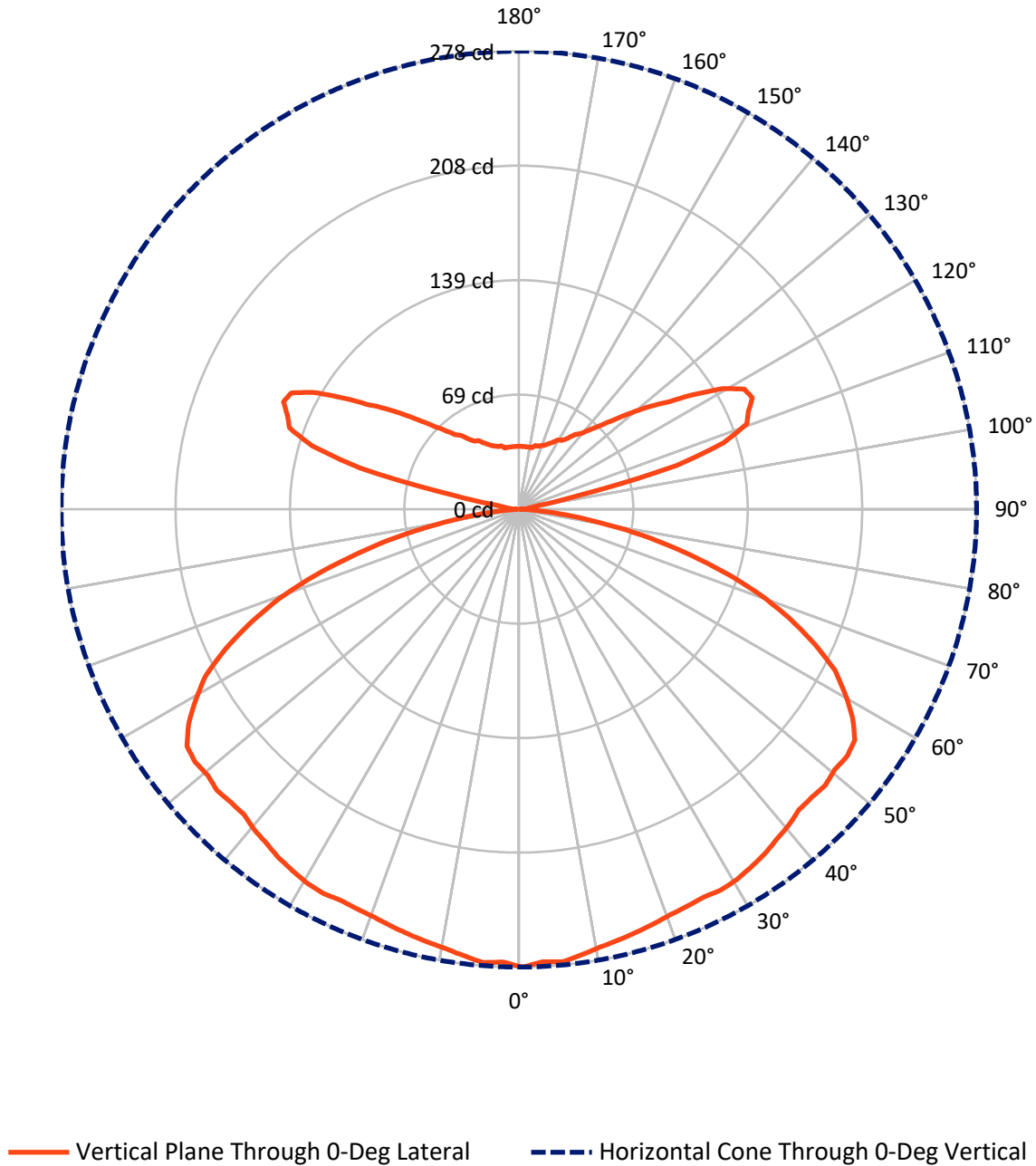
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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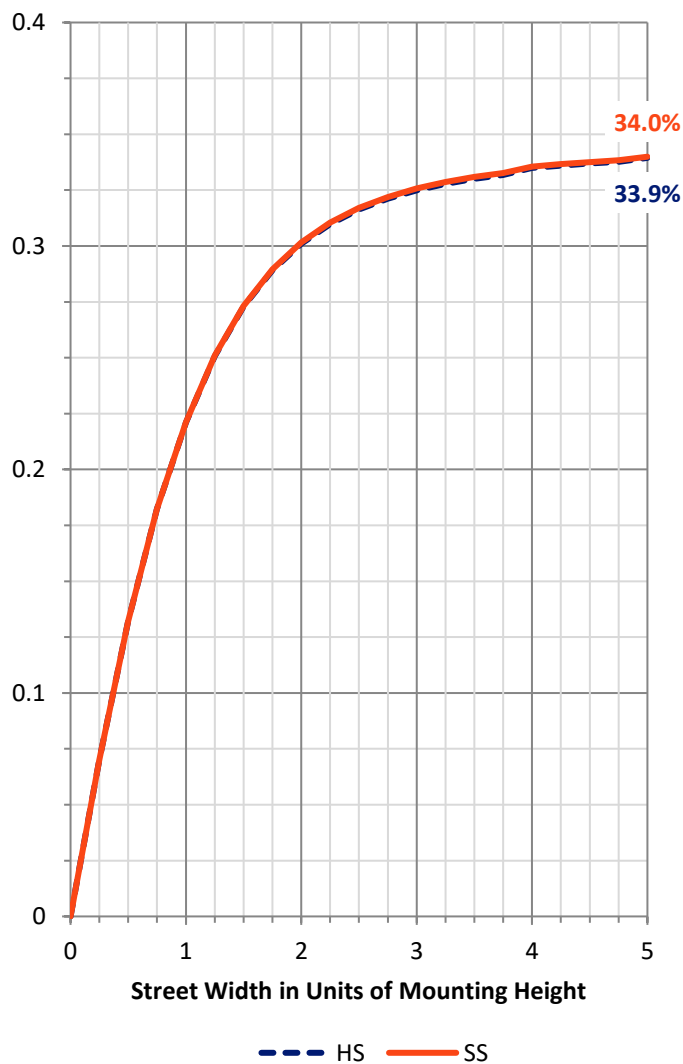
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	584.4	271.5	855.9
	% Fixture	34.1	15.9	50.0
<b>Street Side</b>	Lumens	584.4	271.5	855.9
	% Fixture	34.1	15.9	50.0
<b>Total</b>	Lumens	1168.7	543.0	1711.7
	% Fixture	68.3	31.7	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.1	1.5
10°-20°	75.5	4.4
20°-30°	121.4	7.1
30°-40°	162.2	9.5
40°-50°	197.1	11.5
50°-60°	229.0	13.4
60°-70°	211.3	12.3
70°-80°	123.7	7.2
80°-90°	22.4	1.3
90°-100°	12.1	0.7
100°-110°	123.2	7.2
110°-120°	180.1	10.5
120°-130°	104.5	6.1
130°-140°	55.4	3.2
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°	1168.7	68.3
0°-180°	1711.7	100.0

**Coefficient of Utilization**



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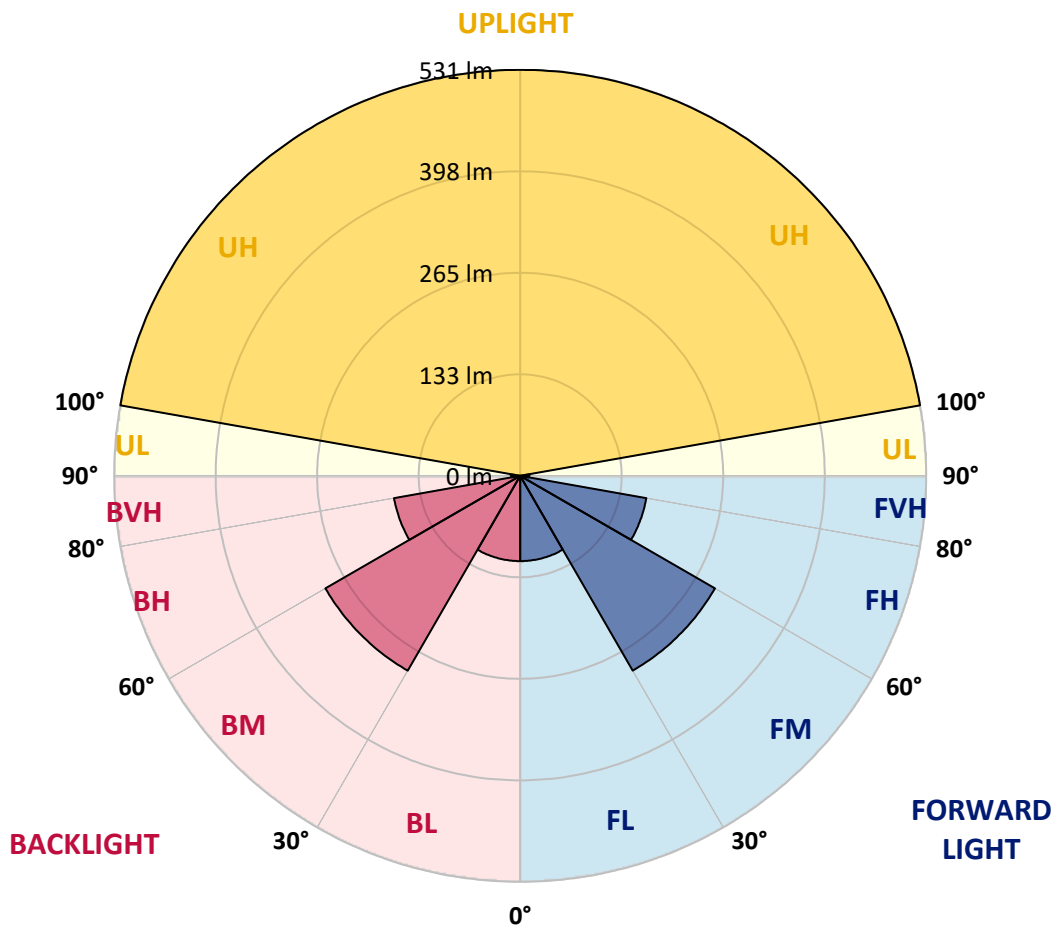
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	111.5	6.5			
FM (30°-60°)	294.2	17.2			
FH (60°-80°)	167.5	9.8			G0/660
FVH (80°-90°)	11.2	0.7			G1/100
BL (0°-30°)	111.5	6.5	B1/500		
BM (30°-60°)	294.2	17.2	B1/1000		
BH (60°-80°)	167.5	9.8	B1/500		G0/660
BVH (80°-90°)	11.2	0.7			G1/100
UL (90°-100°)	12.1	0.7		U2/50	
UH (100°-180°)	530.9	31.0		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°	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9
2.5°	275.0	276.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	276.0
5°	276.0	276.0	276.0	276.0	275.0	275.0	275.0	275.0	275.0	276.0	276.0
7.5°	273.1	273.1	273.1	273.1	273.1	272.2	273.1	273.1	273.1	273.1	273.1
10°	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3
12.5°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	267.4	267.4
15°	266.5	266.5	266.5	266.5	267.4	267.4	266.5	266.5	266.5	266.5	266.5
17.5°	264.6	264.6	264.6	264.6	265.5	265.5	265.5	264.6	264.6	264.6	264.6
20°	262.7	262.7	262.7	262.7	263.6	263.6	263.6	263.6	263.6	262.7	262.7
22.5°	261.7	261.7	261.7	261.7	262.7	262.7	262.7	262.7	261.7	261.7	261.7
25°	260.8	261.7	261.7	261.7	262.7	263.6	263.6	262.7	261.7	260.8	260.8
27.5°	261.7	261.7	261.7	262.7	262.7	263.6	263.6	262.7	261.7	261.7	261.7
30°	260.8	260.8	260.8	261.7	262.7	263.6	262.7	262.7	261.7	260.8	260.8
32.5°	258.9	258.9	259.8	260.8	261.7	261.7	261.7	260.8	259.8	258.9	258.9
35°	257.0	257.0	257.0	257.9	259.8	259.8	259.8	258.9	257.9	257.0	256.1
37.5°	254.2	255.1	255.1	257.0	257.9	258.9	257.9	257.0	255.1	254.2	254.2
40°	252.3	252.3	253.2	255.1	257.0	257.0	256.1	255.1	253.2	252.3	252.3
42.5°	249.4	249.4	251.3	253.2	256.1	256.1	255.1	253.2	251.3	249.4	249.4
45°	249.4	249.4	251.3	255.1	257.0	258.9	257.0	255.1	251.3	249.4	248.5
47.5°	250.4	250.4	252.3	257.0	260.8	262.7	259.8	256.1	252.3	250.4	249.4
50°	248.5	249.4	253.2	257.9	262.7	263.6	262.7	257.0	253.2	248.5	248.5
52.5°	249.4	249.4	254.2	261.7	266.5	268.4	266.5	261.7	253.2	248.5	248.5
55°	247.5	246.6	253.2	261.7	269.3	273.1	269.3	261.7	252.3	246.6	245.6
57.5°	239.0	239.0	247.5	256.1	265.5	267.4	264.6	256.1	246.6	239.0	237.1
60°	227.6	228.6	237.1	246.6	255.1	256.1	254.2	246.6	237.1	228.6	225.7
62.5°	215.3	217.2	225.7	235.2	245.6	247.5	244.7	235.2	223.8	218.1	213.4
65°	197.3	200.1	209.6	220.0	231.4	230.4	230.4	219.1	210.5	201.0	196.3
67.5°	177.3	180.2	186.8	201.0	210.5	209.6	208.6	201.0	186.8	180.2	177.3
70°	155.5	157.4	164.1	178.3	186.8	187.8	184.9	177.3	164.1	159.3	154.6
72.5°	129.9	130.9	140.4	151.7	160.3	159.3	158.4	151.7	139.4	134.7	129.0
75°	102.4	103.4	111.9	122.3	129.0	128.0	127.1	122.3	111.9	106.2	101.5
77.5°	76.8	75.9	84.4	92.0	95.8	96.7	94.8	91.0	83.5	78.7	75.9
80°	50.3	49.3	56.9	62.6	65.4	65.4	64.5	61.6	56.0	52.2	50.3
82.5°	28.5	27.5	32.2	36.0	38.9	37.9	37.0	35.1	32.2	29.4	27.5
85°	10.4	10.4	13.3	15.2	17.1	17.1	16.1	15.2	12.3	11.4	10.4
87.5°	0.9	0.9	1.9	2.8	2.8	2.8	1.9	1.9	0.9	0.9	0.9
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)