

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: P832812

Luminaire Tested: **TTN-D0-735-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832812  
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-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

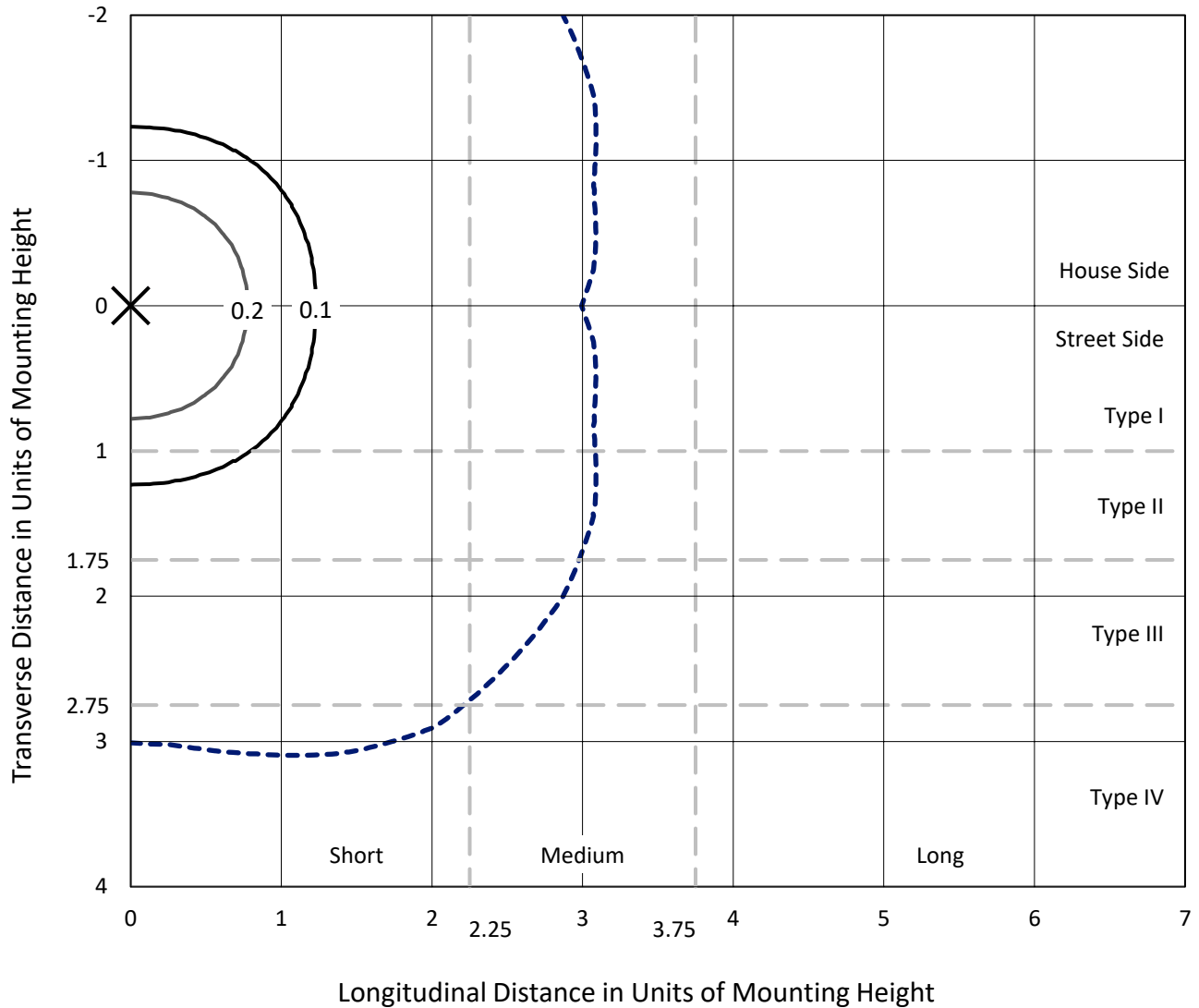
Lumens per Lamp: N/A  
Luminaire Lumens: 1921.6 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G1  
  
Input Watts (W): 17.7  
Input Voltage (V): NR  
Input Current (Ain): 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

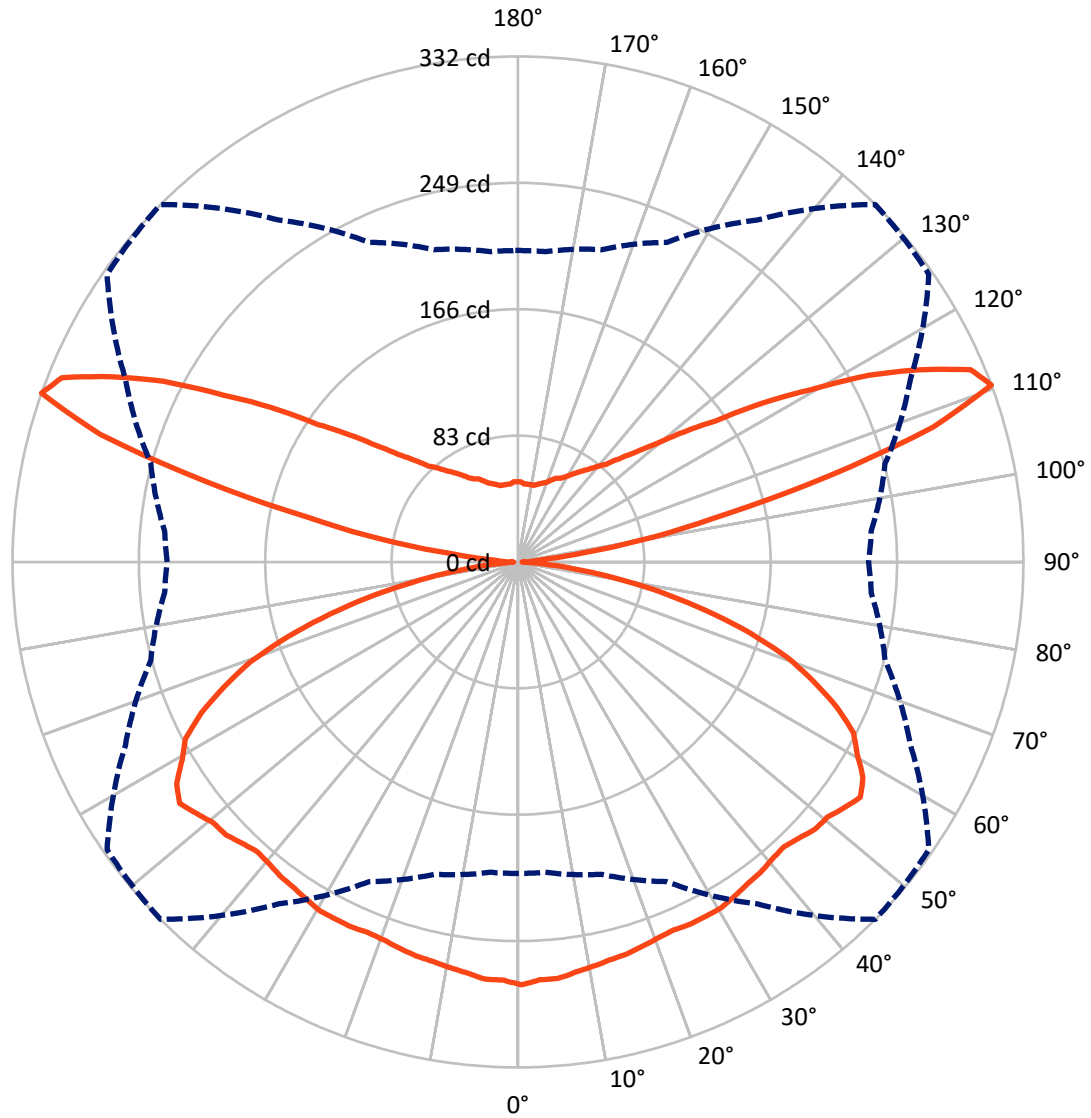
✕ Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 110-Deg Vertical

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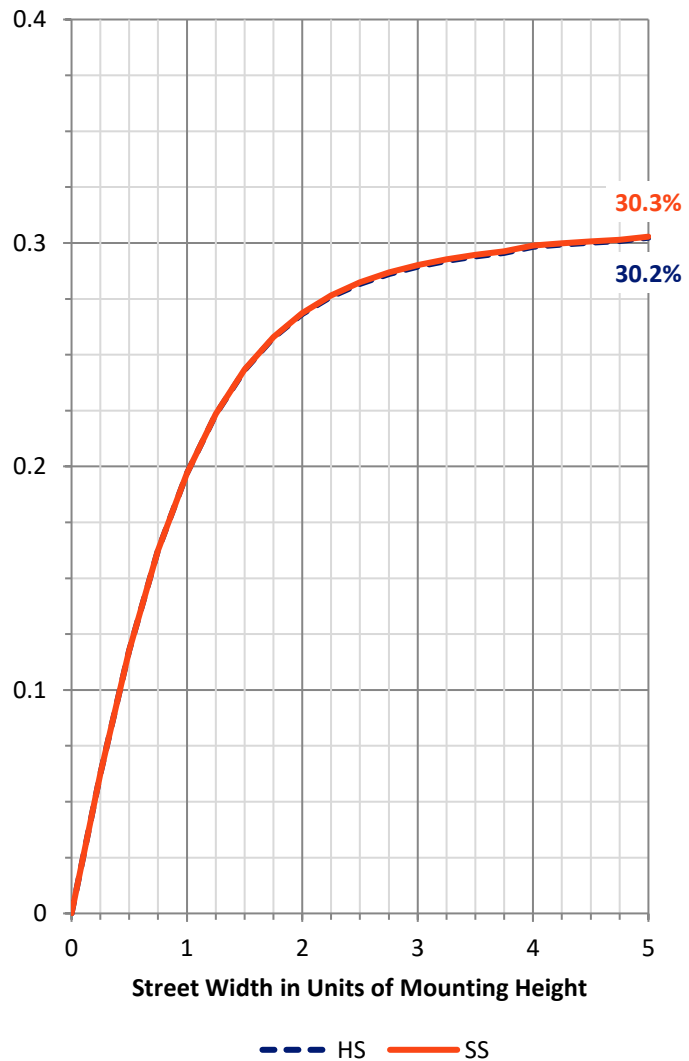
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	584.5	376.3	960.8
	% Fixture	30.4	19.6	50.0
<b>Street Side</b>	Lumens	584.5	376.3	960.8
	% Fixture	30.4	19.6	50.0
<b>Total</b>	Lumens	1169.0	752.7	1921.6
	% Fixture	60.8	39.2	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.1	1.4
10°-20°	75.5	3.9
20°-30°	121.4	6.3
30°-40°	162.2	8.4
40°-50°	197.1	10.3
50°-60°	229.0	11.9
60°-70°	211.3	11.0
70°-80°	123.7	6.4
80°-90°	22.7	1.2
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90°-100°	16.8	0.9
100°-110°	170.7	8.9
110°-120°	249.6	13.0
120°-130°	144.9	7.5
130°-140°	76.7	4.0
140°-150°	45.6	2.4
150°-160°	28.1	1.5
160°-170°	15.3	0.8
170°-180°	5.0	0.3
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0°-90°	1169.0	60.8
0°-180°	1921.6	100.0



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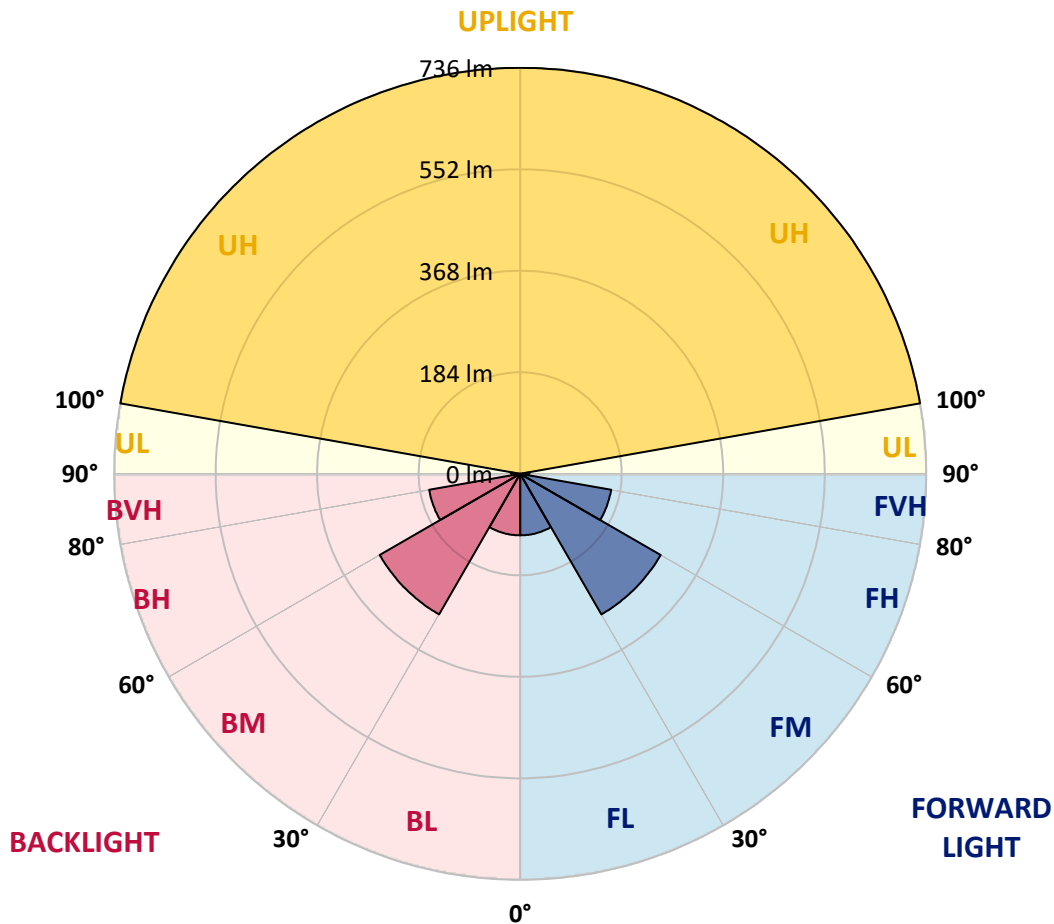
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	111.5	5.8			
FM (30°-60°)	294.2	15.3			
FH (60°-80°)	167.5	8.7			G0/660
FVH (80°-90°)	11.3	0.6			G1/100
BL (0°-30°)	111.5	5.8	B1/500		
BM (30°-60°)	294.2	15.3	B1/1000		
BH (60°-80°)	167.5	8.7	B1/500		G0/660
BVH (80°-90°)	11.3	0.6			G1/100
UL (90°-100°)	16.8	0.9		U2/50	
UH (100°-180°)	735.8	38.3		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°	6.4	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	6.4
92.5°	6.4	6.4	6.4	9.0	10.3	9.0	10.3	7.7	7.7	6.4	6.4
95°	7.7	7.7	9.0	11.6	14.2	15.5	15.5	9.0	9.0	7.7	7.7
97.5°	10.3	11.6	11.6	14.2	23.2	42.5	25.8	12.9	12.9	11.6	10.3
100°	16.7	18.0	18.0	32.2	68.2	91.4	65.7	33.5	24.5	18.0	18.0
102.5°	54.1	56.7	69.5	104.3	154.5	140.4	118.5	112.0	77.3	61.8	59.2
105°	137.8	136.5	146.8	173.8	216.3	212.5	195.7	177.7	153.2	141.6	141.6
107.5°	181.6	181.6	190.6	213.8	245.9	287.1	291.0	230.5	202.2	189.3	188.0
110°	204.7	204.7	212.5	231.8	274.3	332.2	329.6	284.6	249.8	233.1	230.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.9	211.2	221.5	251.1	297.5	323.2	311.6	293.6	278.1	265.3	262.7
115°	217.6	217.6	229.2	257.5	283.3	293.6	280.7	266.5	256.2	251.1	253.7
117.5°	215.0	218.9	221.5	236.9	253.7	261.4	255.0	235.6	227.9	225.3	221.5
120°	199.6	199.6	202.2	209.9	218.9	222.8	220.2	207.3	200.9	199.6	197.0
122.5°	177.7	179.0	177.7	181.6	188.0	191.9	189.3	179.0	176.4	176.4	173.8
125°	155.8	155.8	154.5	157.1	161.0	159.7	161.0	155.8	154.5	154.5	153.2
127.5°	140.4	139.1	136.5	137.8	139.1	139.1	140.4	135.2	136.5	137.8	136.5
130°	124.9	124.9	122.3	122.3	122.3	119.8	122.3	119.8	121.0	122.3	123.6
132.5°	110.7	110.7	106.9	105.6	105.6	105.6	106.9	105.6	108.2	110.7	110.7
135°	99.2	99.2	95.3	96.6	96.6	95.3	96.6	95.3	97.9	99.2	99.2
137.5°	90.1	90.1	87.6	87.6	87.6	86.3	87.6	87.6	88.8	91.4	92.7
140°	82.4	82.4	81.1	81.1	79.8	81.1	81.1	81.1	82.4	83.7	83.7
142.5°	78.5	77.3	76.0	74.7	76.0	76.0	76.0	74.7	76.0	78.5	78.5
145°	72.1	72.1	70.8	70.8	70.8	72.1	70.8	70.8	72.1	72.1	73.4
147.5°	68.2	68.2	67.0	68.2	68.2	68.2	68.2	67.0	68.2	68.2	69.5
150°	67.0	65.7	64.4	65.7	65.7	64.4	64.4	64.4	64.4	65.7	65.7
152.5°	63.1	63.1	61.8	63.1	61.8	61.8	61.8	61.8	61.8	63.1	64.4
155°	60.5	60.5	59.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
157.5°	57.9	59.2	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.2	59.2
160°	56.7	56.7	56.7	56.7	55.4	55.4	55.4	56.7	56.7	56.7	57.9
162.5°	55.4	55.4	55.4	55.4	54.1	54.1	54.1	54.1	55.4	55.4	56.7
165°	55.4	54.1	54.1	54.1	52.8	52.8	52.8	52.8	54.1	55.4	54.1
167.5°	52.8	52.8	52.8	52.8	52.8	51.5	51.5	52.8	52.8	52.8	54.1
170°	52.8	52.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.8
172.5°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	51.5	51.5	52.8	52.8
175°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	52.8	52.8	52.8	51.5
177.5°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8	52.8	52.8	52.8
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

(END OF REPORT)