

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: P832860

Luminaire Tested: **TTN-D0-740-U-WQ-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832860  
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-D0-740-U-WQ-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

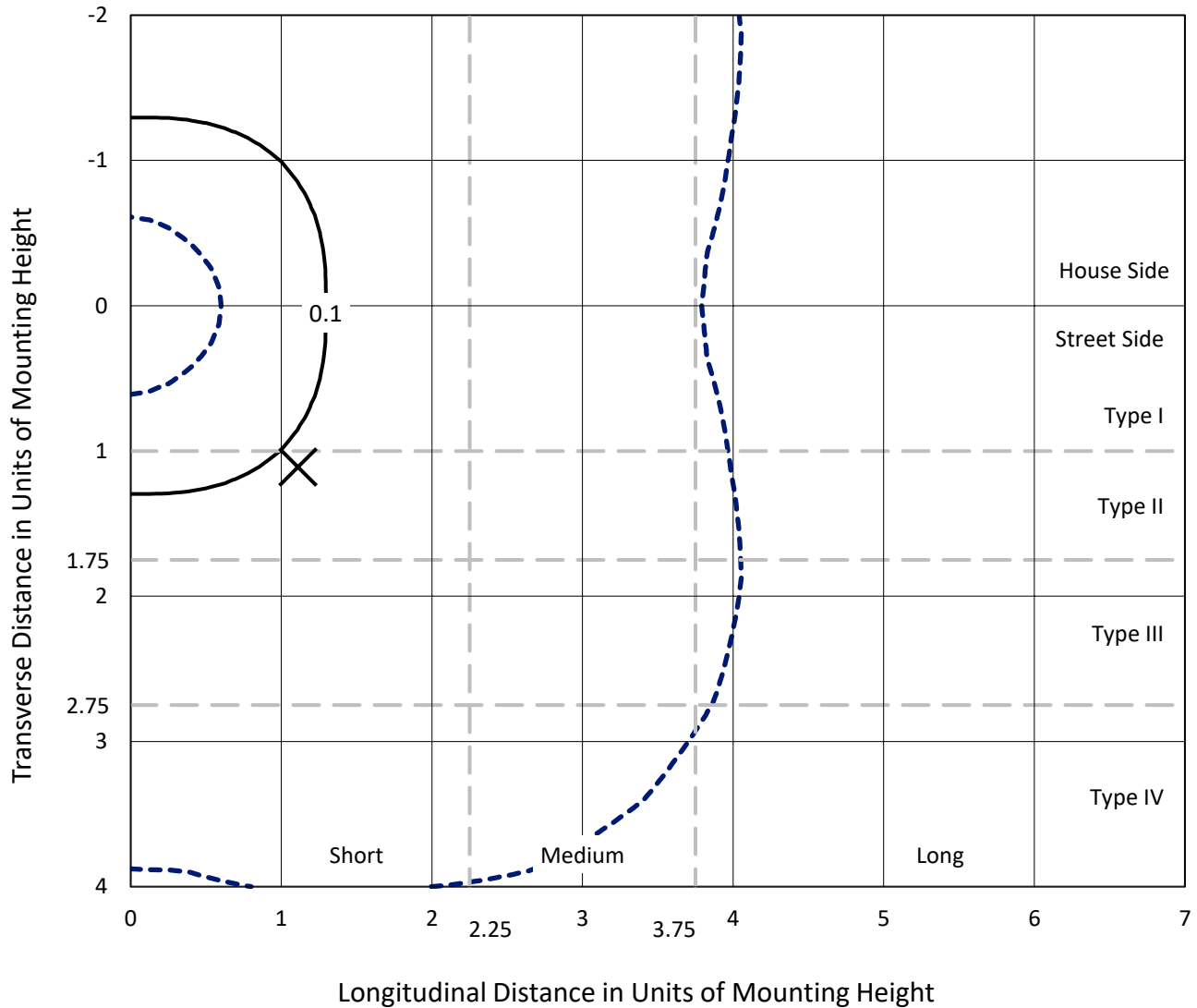
Lumens per Lamp: N/A  
Luminaire Lumens: 2027.8 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G1  
  
Input Watts (W): 17.7  
Input Voltage (V): NR  
Input Current (Ain): 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

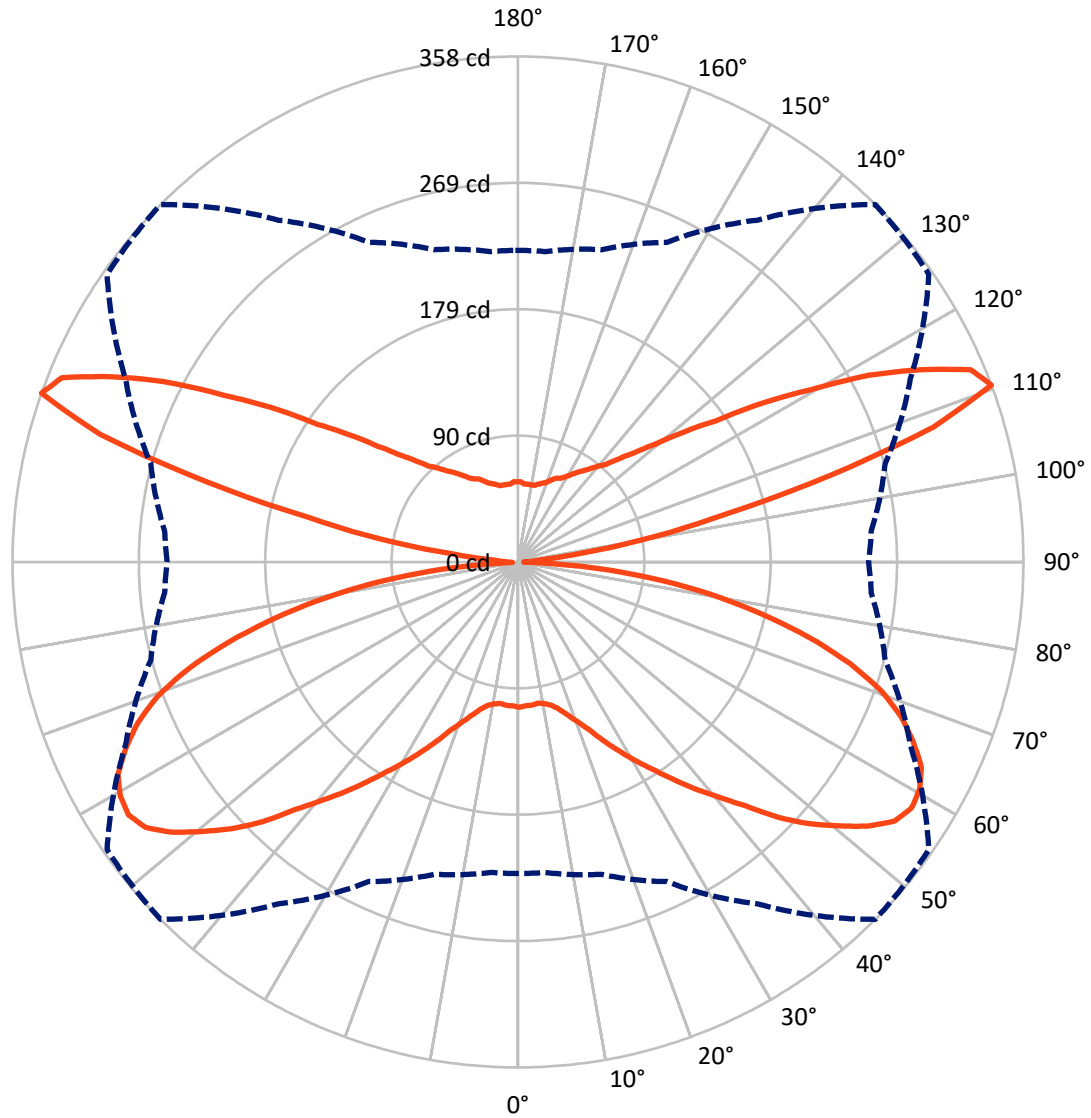
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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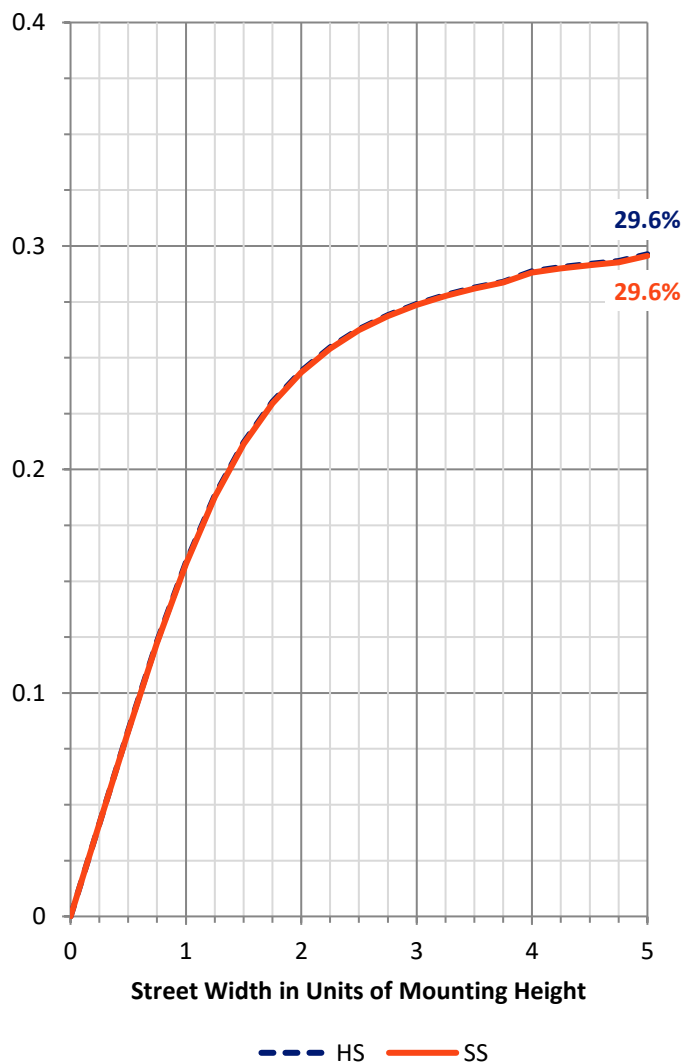
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	608.1	405.8	1013.9
	% Fixture	30.0	20.0	50.0
<b>Street Side</b>	Lumens	608.1	405.8	1013.9
	% Fixture	30.0	20.0	50.0
<b>Total</b>	Lumens	1216.2	811.5	2027.8
	% Fixture	60.0	40.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.7	0.5
10°-20°	30.9	1.5
20°-30°	64.8	3.2
30°-40°	117.6	5.8
40°-50°	191.7	9.5
50°-60°	268.3	13.2
60°-70°	280.1	13.8
70°-80°	200.2	9.9
80°-90°	52.9	2.6
90°-100°	18.1	0.9
100°-110°	184.1	9.1
110°-120°	269.1	13.3
120°-130°	156.2	7.7
130°-140°	82.7	4.1
140°-150°	49.1	2.4
150°-160°	30.3	1.5
160°-170°	16.5	0.8
170°-180°	5.4	0.3
0°-90°	1216.2	60.0
0°-180°	2027.8	100.0

**Coefficient of Utilization**



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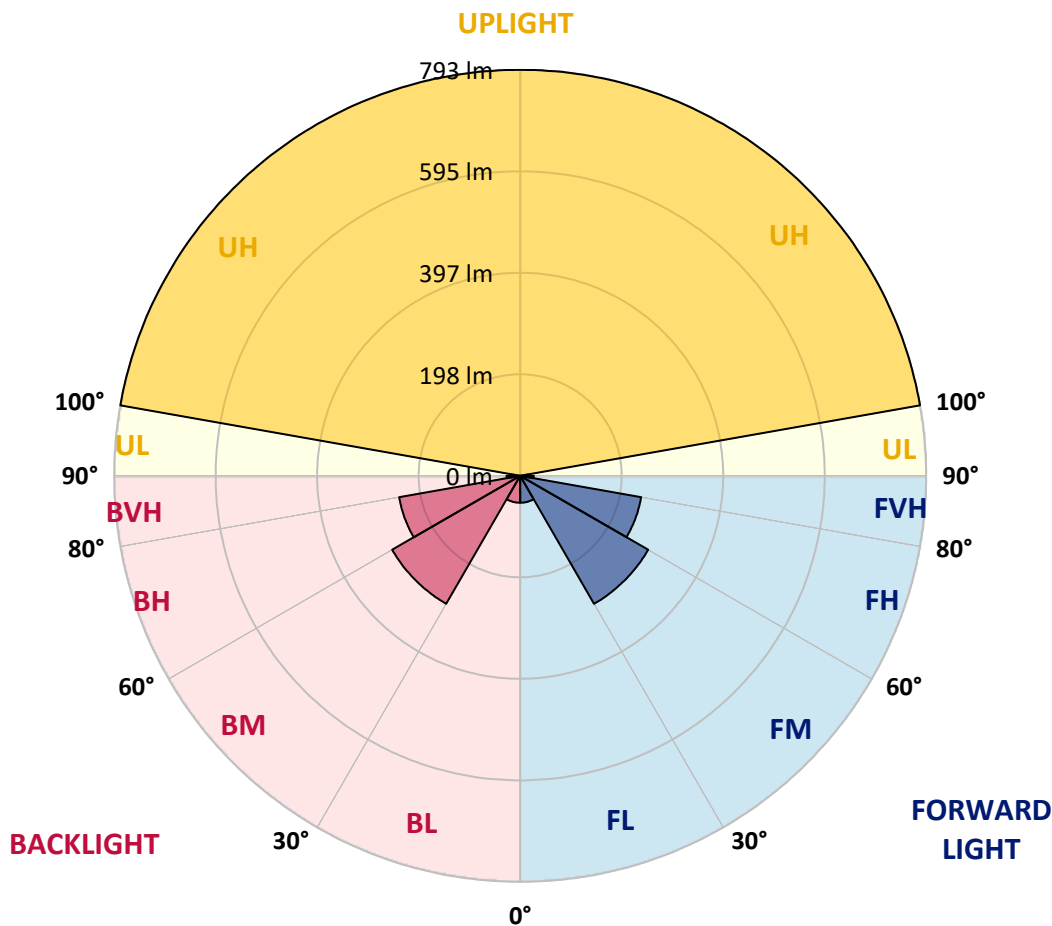
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	52.7	2.6			
FM (30°-60°)	288.8	14.2			
FH (60°-80°)	240.2	11.8			G0/660
FVH (80°-90°)	26.4	1.3			G1/100
BL (0°-30°)	52.7	2.6	B0/110		
BM (30°-60°)	288.8	14.2	B1/1000		
BH (60°-80°)	240.2	11.8	B1/500		G0/660
BVH (80°-90°)	26.4	1.3			G1/100
UL (90°-100°)	18.1	0.9		U2/50	
UH (100°-180°)	793.4	39.1		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°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
5°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
7.5°	100.0	100.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
10°	100.0	100.0	101.0	101.0	102.0	102.0	102.0	101.0	101.0	100.0	100.0
12.5°	102.0	102.0	102.0	103.0	104.0	104.0	104.0	103.0	103.0	102.0	102.0
15°	105.0	106.0	106.0	107.0	108.0	108.0	108.0	107.0	107.0	106.0	106.0
17.5°	111.0	111.0	111.0	112.0	113.0	114.0	114.0	112.0	112.0	111.0	112.0
20°	117.0	118.0	118.0	119.0	120.0	121.0	120.0	119.0	118.0	118.0	118.0
22.5°	126.0	126.0	127.0	127.0	129.0	129.0	129.0	127.0	127.0	127.0	127.0
25°	136.0	136.0	137.0	138.0	140.0	140.0	139.0	137.0	137.0	137.0	138.0
27.5°	148.0	148.0	149.0	149.0	151.0	151.0	150.0	149.0	149.0	149.0	150.0
30°	159.0	159.0	161.0	162.0	163.0	163.0	163.0	161.0	161.0	160.0	160.0
32.5°	169.0	170.0	171.0	174.0	176.0	175.0	176.0	174.0	172.0	171.0	171.0
35°	180.0	181.0	183.0	186.0	189.0	189.0	189.0	186.0	184.0	182.0	183.0
37.5°	193.0	193.0	196.0	199.0	203.0	204.0	203.0	200.0	197.0	195.0	195.0
40°	207.0	207.0	210.0	213.0	218.0	219.0	218.0	214.0	210.0	209.0	209.0
42.5°	221.0	221.0	225.0	228.0	234.0	236.0	234.0	229.0	225.0	222.0	223.0
45°	236.0	237.0	242.0	248.0	255.0	258.0	255.0	249.0	243.0	237.0	237.0
47.5°	253.0	253.0	259.0	266.0	274.0	277.0	273.0	267.0	259.0	254.0	254.0
50°	264.0	265.0	273.0	282.0	292.0	294.0	291.0	282.0	273.0	266.0	265.0
52.5°	275.0	276.0	285.0	298.0	308.0	311.0	307.0	298.0	285.0	276.0	276.0
55°	282.0	284.0	294.0	308.0	319.0	324.0	318.0	308.0	293.0	283.0	282.0
57.5°	283.0	285.0	295.0	312.0	323.0	329.0	324.0	311.0	295.0	284.0	283.0
60°	281.0	282.0	292.0	310.0	323.0	327.0	323.0	309.0	291.0	282.0	280.0
62.5°	276.0	278.0	288.0	303.0	318.0	321.0	317.0	302.0	287.0	276.0	274.0
65°	260.0	262.0	277.0	292.0	305.0	308.0	305.0	292.0	276.0	260.0	258.0
67.5°	242.0	243.0	258.0	276.0	288.0	293.0	288.0	277.0	257.0	242.0	240.0
70°	223.0	224.0	236.0	255.0	267.0	273.0	268.0	256.0	235.0	222.0	221.0
72.5°	201.0	201.0	213.0	228.0	240.0	246.0	242.0	227.0	211.0	198.0	196.0
75°	171.0	172.0	185.0	196.0	209.0	213.0	209.0	197.0	182.0	169.0	167.0
77.5°	140.0	141.0	152.0	161.0	173.0	176.0	173.0	163.0	149.0	138.0	137.0
80°	106.0	107.0	116.0	124.0	134.0	138.0	135.0	125.0	114.0	104.0	101.0
82.5°	69.0	70.0	79.0	85.0	94.0	97.0	95.0	86.0	77.0	67.0	66.0
85°	31.0	32.0	40.0	45.0	52.0	55.0	53.0	45.0	38.0	29.0	27.0
87.5°	3.0	3.0	3.0	3.0	3.0	4.0	4.0	3.0	3.0	3.0	3.0
90°	6.9	6.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	6.9
92.5°	6.9	6.9	6.9	9.7	11.1	9.7	11.1	8.3	8.3	6.9	6.9
95°	8.3	8.3	9.7	12.5	15.3	16.7	16.7	9.7	9.7	8.3	8.3
97.5°	11.1	12.5	12.5	15.3	25.0	45.8	27.8	13.9	13.9	12.5	11.1
100°	18.0	19.4	19.4	34.7	73.6	98.6	70.8	36.1	26.4	19.4	19.4
102.5°	58.3	61.1	75.0	112.5	166.6	151.3	127.7	120.8	83.3	66.6	63.9
105°	148.6	147.2	158.3	187.4	233.3	229.1	211.0	191.6	165.2	152.7	152.7
107.5°	195.8	195.8	205.5	230.5	265.2	309.6	313.8	248.5	218.0	204.1	202.7
110°	220.8	220.8	229.1	249.9	295.7	358.2	355.4	306.8	269.4	251.3	248.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.3	227.7	238.8	270.7	320.7	348.5	336.0	316.6	299.9	286.0	283.2
115°	234.6	234.6	247.1	277.7	305.5	316.6	302.7	287.4	276.3	270.7	273.5
117.5°	231.9	236.0	238.8	255.5	273.5	281.8	274.9	254.1	245.8	243.0	238.8
120°	215.2	215.2	218.0	226.3	236.0	240.2	237.4	223.5	216.6	215.2	212.4
122.5°	191.6	193.0	191.6	195.8	202.7	206.9	204.1	193.0	190.2	190.2	187.4
125°	168.0	168.0	166.6	169.4	173.6	172.2	173.6	168.0	166.6	166.6	165.2
127.5°	151.3	149.9	147.2	148.6	149.9	149.9	151.3	145.8	147.2	148.6	147.2
130°	134.7	134.7	131.9	131.9	131.9	129.1	131.9	129.1	130.5	131.9	133.3
132.5°	119.4	119.4	115.2	113.9	113.9	113.9	115.2	113.9	116.6	119.4	119.4
135°	106.9	106.9	102.7	104.1	104.1	102.7	104.1	102.7	105.5	106.9	106.9
137.5°	97.2	97.2	94.4	94.4	94.4	93.0	94.4	94.4	95.8	98.6	100.0
140°	88.9	88.9	87.5	87.5	86.1	87.5	87.5	87.5	88.9	90.2	90.2
142.5°	84.7	83.3	81.9	80.5	81.9	81.9	81.9	80.5	81.9	84.7	84.7
145°	77.8	77.8	76.4	76.4	76.4	77.8	76.4	76.4	77.8	77.8	79.1
147.5°	73.6	73.6	72.2	73.6	73.6	73.6	73.6	72.2	73.6	73.6	75.0
150°	72.2	70.8	69.4	70.8	70.8	69.4	69.4	69.4	69.4	70.8	70.8
152.5°	68.0	68.0	66.6	68.0	66.6	66.6	66.6	66.6	66.6	68.0	69.4
155°	65.3	65.3	63.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
157.5°	62.5	63.9	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.9	63.9
160°	61.1	61.1	61.1	61.1	59.7	59.7	59.7	61.1	61.1	61.1	62.5
162.5°	59.7	59.7	59.7	59.7	58.3	58.3	58.3	58.3	59.7	59.7	61.1
165°	59.7	58.3	58.3	58.3	56.9	56.9	56.9	56.9	58.3	59.7	58.3
167.5°	56.9	56.9	56.9	56.9	56.9	55.5	55.5	56.9	56.9	56.9	58.3
170°	56.9	56.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.9
172.5°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	55.5	55.5	56.9	56.9
175°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	56.9	56.9	56.9	55.5
177.5°	56.9	56.9	56.9	56.9	55.5	56.9	56.9	56.9	56.9	56.9	56.9
180°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9

(END OF REPORT)