

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: P832845

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

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832845  
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-MQ-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

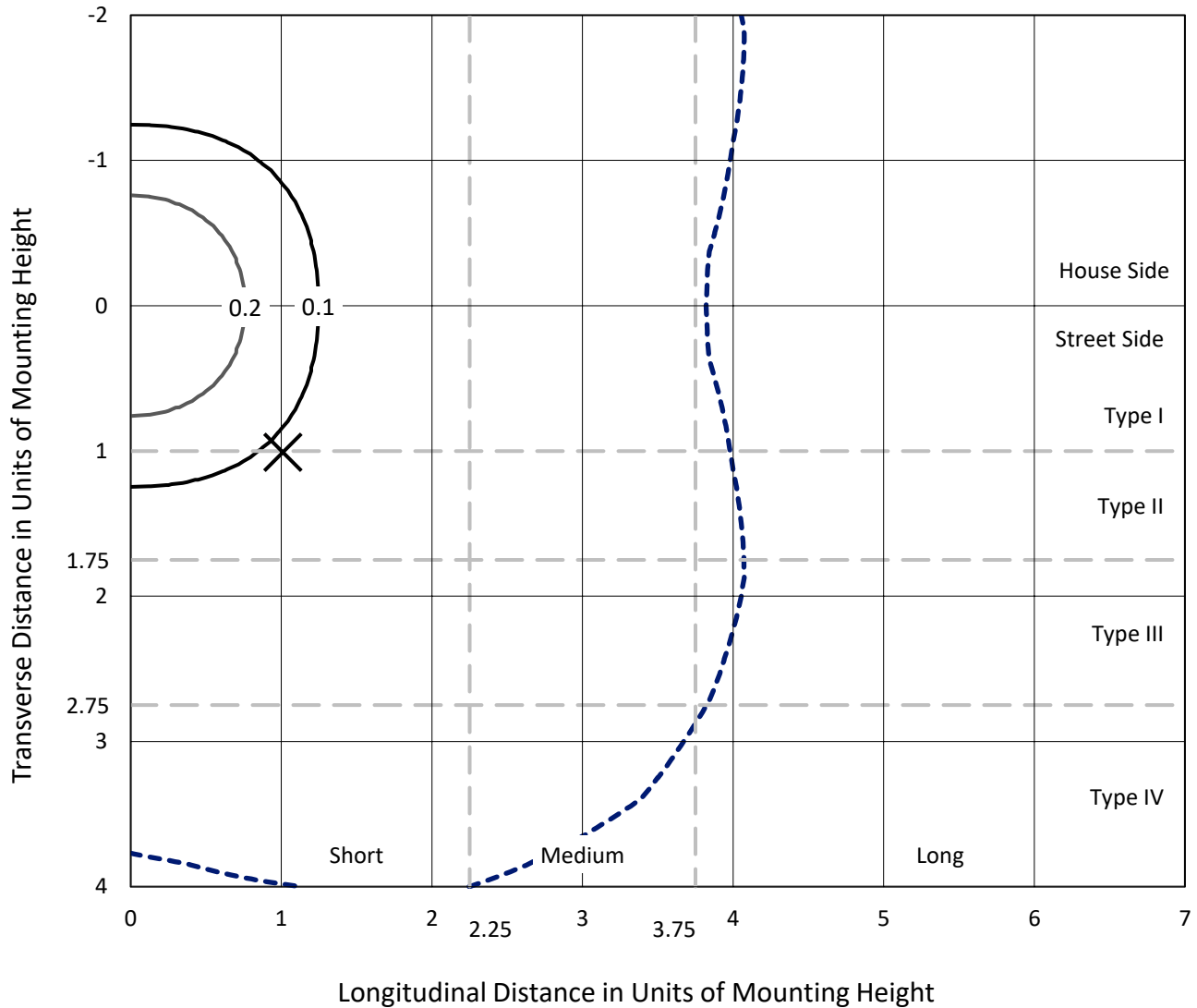
Lumens per Lamp: N/A  
Luminaire Lumens: 2086.4 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G1  
  
Input Watts (W): 17.7  
Input Voltage (V): NR  
Input Current (Ain): 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

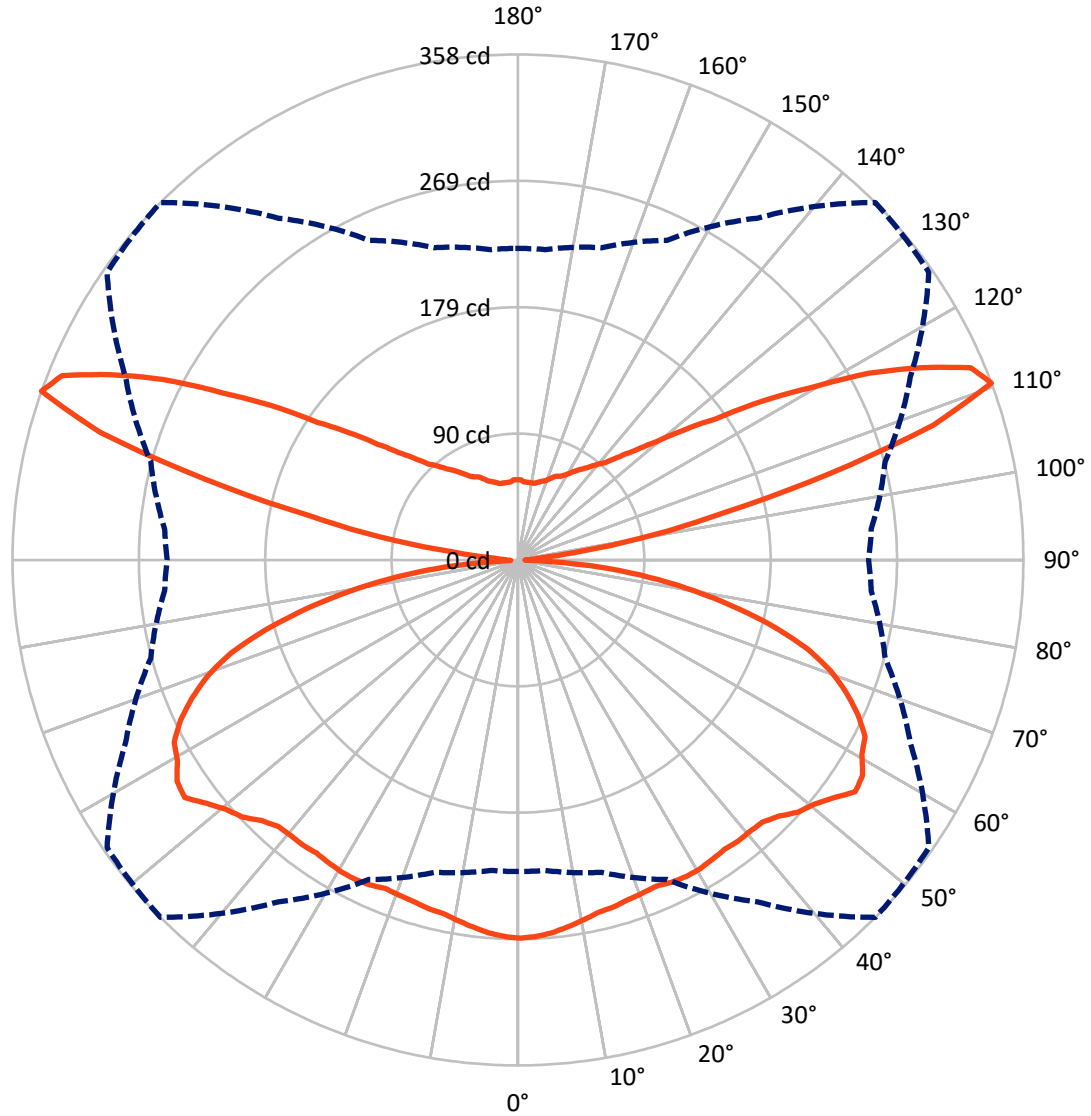
✕ Max cd  
 - - - 1/2 Max cd



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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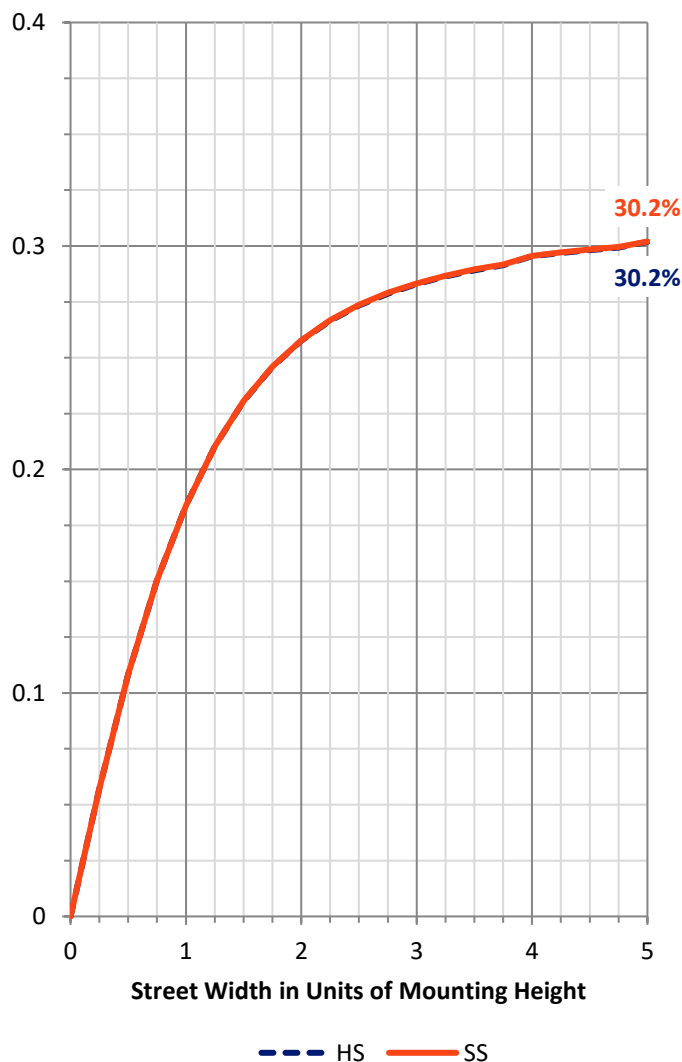
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	637.5	405.8	1043.2
	% Fixture	30.6	19.4	50.0
<b>Street Side</b>	Lumens	637.5	405.8	1043.2
	% Fixture	30.6	19.4	50.0
<b>Total</b>	Lumens	1274.9	811.5	2086.4
	% Fixture	61.1	38.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.1	1.2
10°-20°	72.0	3.5
20°-30°	116.4	5.6
30°-40°	157.5	7.5
40°-50°	197.3	9.5
50°-60°	241.7	11.6
60°-70°	242.3	11.6
70°-80°	174.9	8.4
80°-90°	47.7	2.3
90°-100°	18.1	0.9
100°-110°	184.1	8.8
110°-120°	269.1	12.9
120°-130°	156.2	7.5
130°-140°	82.7	4.0
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°	1274.9	61.1
0°-180°	2086.4	100.0

**Coefficient of Utilization**



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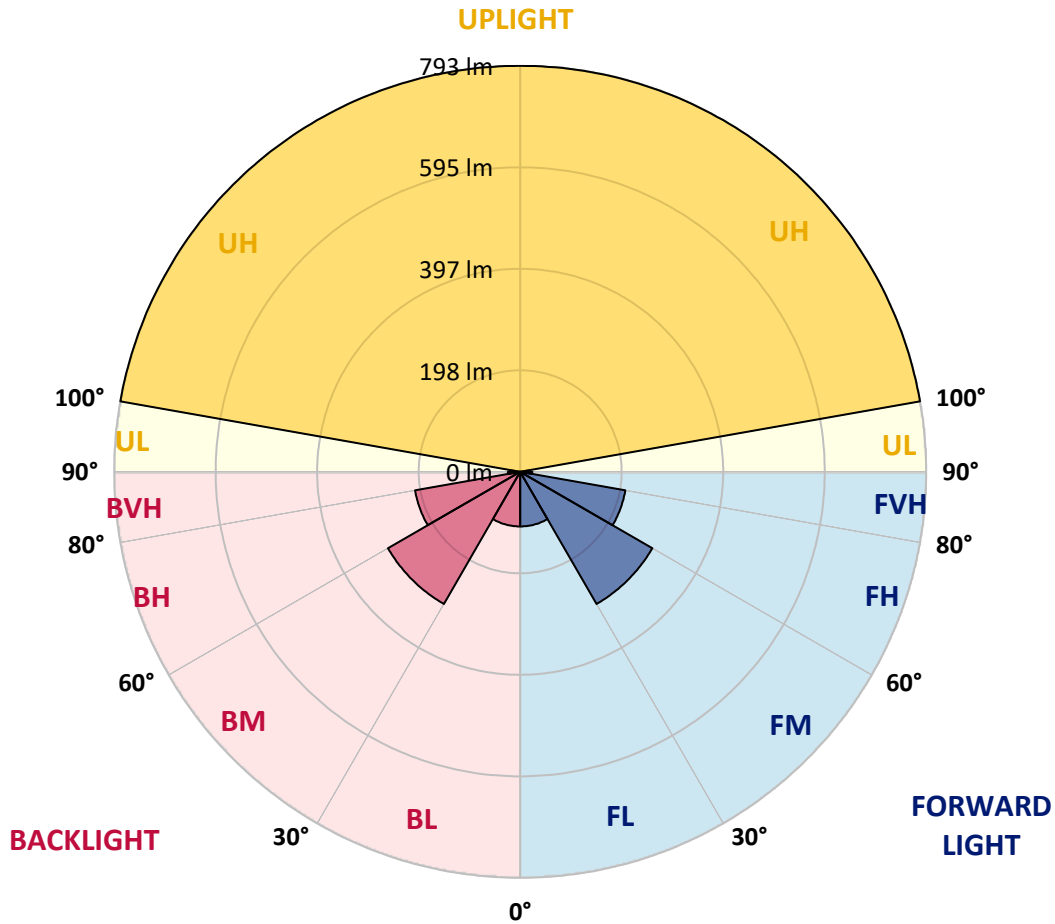
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.7	5.1			
FM (30°-60°)	298.3	14.3			
FH (60°-80°)	208.6	10.0			G0/660
FVH (80°-90°)	23.9	1.1			G1/100
BL (0°-30°)	106.7	5.1	B0/110		
BM (30°-60°)	298.3	14.3	B1/1000		
BH (60°-80°)	208.6	10.0	B1/500		G0/660
BVH (80°-90°)	23.9	1.1			G1/100
UL (90°-100°)	18.1	0.9		U2/50	
UH (100°-180°)	793.4	38.0		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°	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0
2.5°	267.0	267.0	267.0	266.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0
5°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
7.5°	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0
10°	258.0	258.0	258.0	258.0	259.0	259.0	259.0	259.0	258.0	258.0	258.0
12.5°	255.0	255.0	255.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	255.0
15°	254.0	254.0	254.0	254.0	255.0	255.0	255.0	255.0	254.0	254.0	254.0
17.5°	252.0	252.0	252.0	253.0	253.0	253.0	253.0	253.0	252.0	252.0	252.0
20°	250.0	250.0	251.0	251.0	252.0	252.0	252.0	251.0	251.0	250.0	251.0
22.5°	250.0	250.0	250.0	251.0	251.0	251.0	251.0	250.0	250.0	250.0	250.0
25°	250.0	250.0	251.0	252.0	252.0	253.0	252.0	251.0	250.0	250.0	250.0
27.5°	251.0	251.0	252.0	253.0	253.0	254.0	253.0	252.0	251.0	251.0	251.0
30°	251.0	251.0	252.0	253.0	253.0	254.0	253.0	252.0	251.0	251.0	251.0
32.5°	249.0	250.0	251.0	252.0	253.0	253.0	253.0	252.0	251.0	250.0	250.0
35°	248.0	249.0	250.0	251.0	252.0	252.0	252.0	251.0	250.0	249.0	249.0
37.5°	247.0	247.0	249.0	250.0	251.0	253.0	252.0	250.0	249.0	248.0	248.0
40°	246.0	247.0	248.0	250.0	251.0	253.0	252.0	250.0	248.0	247.0	247.0
42.5°	246.0	246.0	248.0	250.0	252.0	254.0	253.0	251.0	248.0	247.0	246.0
45°	247.0	248.0	251.0	255.0	257.0	259.0	258.0	255.0	250.0	248.0	247.0
47.5°	251.0	252.0	255.0	259.0	264.0	267.0	264.0	259.0	255.0	252.0	251.0
50°	253.0	254.0	259.0	264.0	271.0	272.0	271.0	264.0	259.0	254.0	254.0
52.5°	257.0	257.0	263.0	272.0	278.0	280.0	278.0	273.0	263.0	258.0	257.0
55°	258.0	258.0	265.0	276.0	285.0	290.0	285.0	277.0	266.0	259.0	259.0
57.5°	252.0	254.0	263.0	274.0	285.0	288.0	285.0	275.0	264.0	255.0	254.0
60°	245.0	248.0	256.0	269.0	277.0	280.0	278.0	269.0	257.0	248.0	247.0
62.5°	238.0	242.0	251.0	261.0	273.0	276.0	273.0	261.0	251.0	242.0	238.0
65°	223.0	227.0	240.0	252.0	263.0	265.0	264.0	252.0	240.0	227.0	225.0
67.5°	208.0	211.0	220.0	239.0	248.0	251.0	249.0	238.0	221.0	211.0	210.0
70°	192.0	195.0	203.0	221.0	230.0	235.0	231.0	221.0	203.0	195.0	194.0
72.5°	171.0	175.0	184.0	200.0	209.0	214.0	210.0	200.0	184.0	174.0	172.0
75°	146.0	149.0	160.0	173.0	182.0	186.0	183.0	174.0	160.0	149.0	148.0
77.5°	119.0	122.0	132.0	145.0	150.0	154.0	151.0	144.0	132.0	122.0	121.0
80°	90.0	93.0	102.0	112.0	117.0	121.0	118.0	111.0	102.0	93.0	92.0
82.5°	59.0	62.0	70.0	78.0	83.0	87.0	84.0	77.0	71.0	62.0	61.0
85°	25.0	28.0	35.0	43.0	47.0	51.0	48.0	42.0	35.0	29.0	28.0
87.5°	2.0	3.0	3.0	4.0	3.0	5.0	3.0	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)