

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: P832887

Luminaire Tested: **TTN-D0-750-U-WQ-SG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832887  
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-D0-750-U-WQ-SG-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

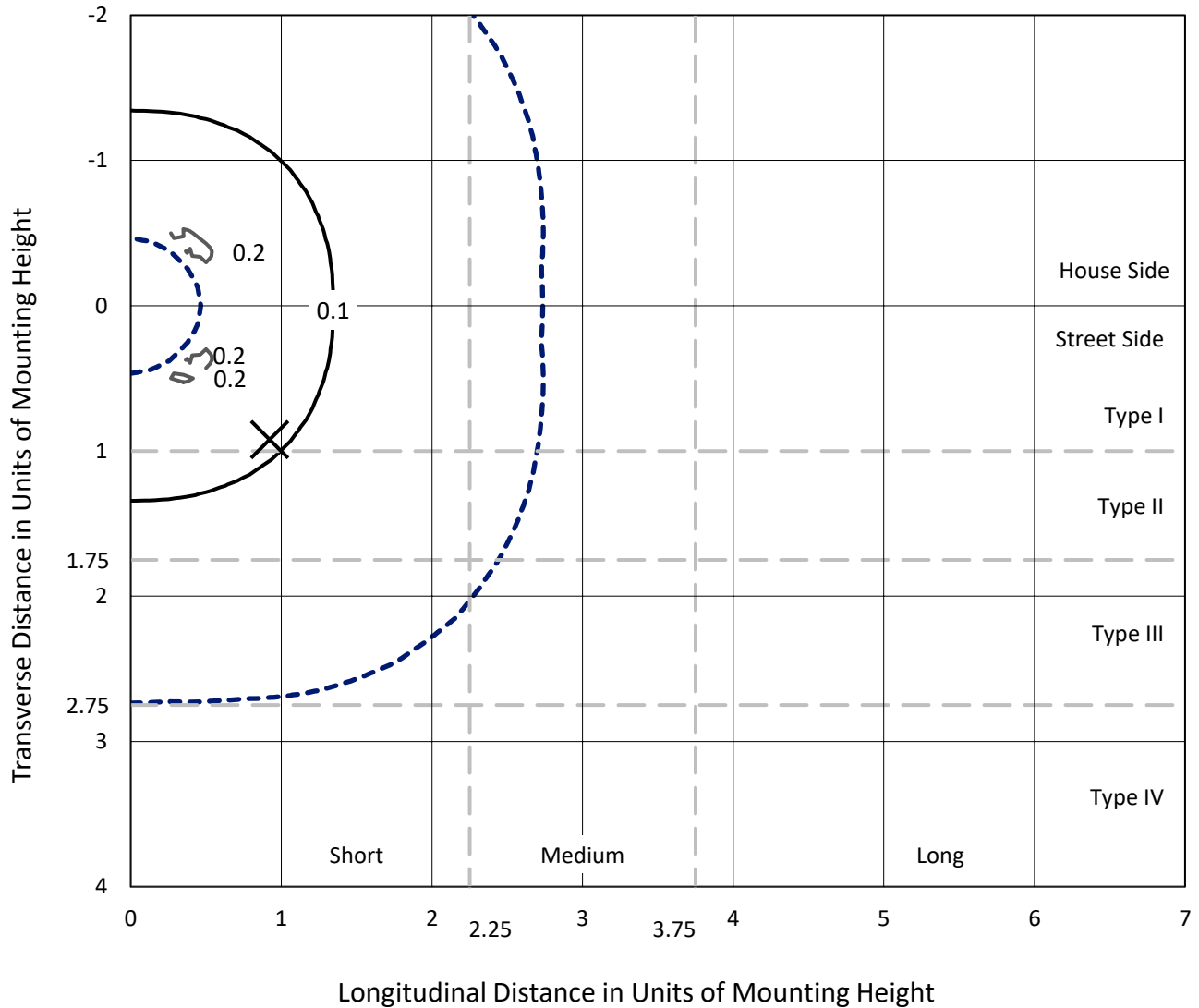
Lumens per Lamp: N/A  
Luminaire Lumens: 1943.8 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G1  
  
Input Watts (W): 17.7  
Input Voltage (V): NR  
Input Current (Ain): 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

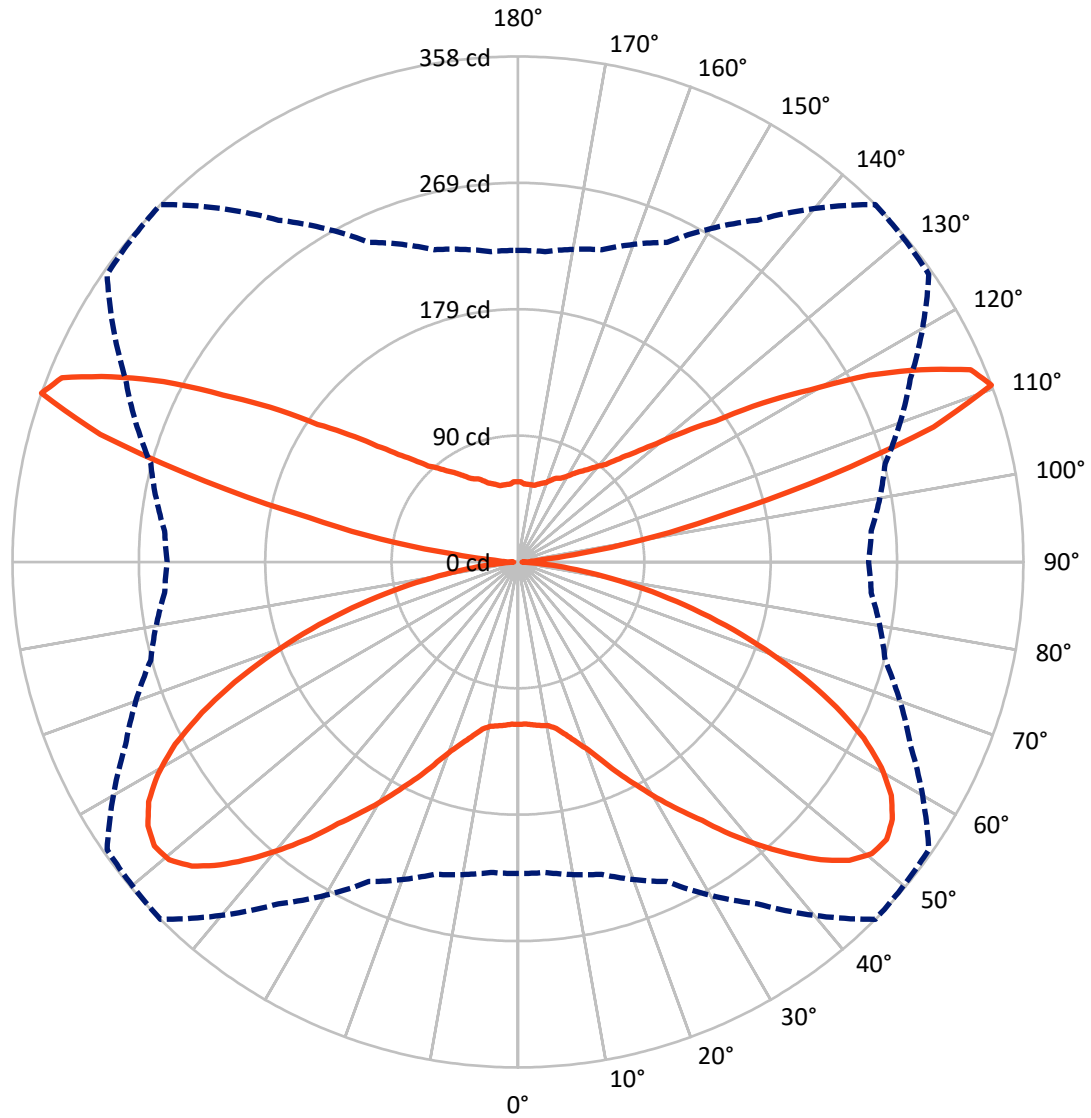
✕ Max cd  
 - - - 1/2 Max cd



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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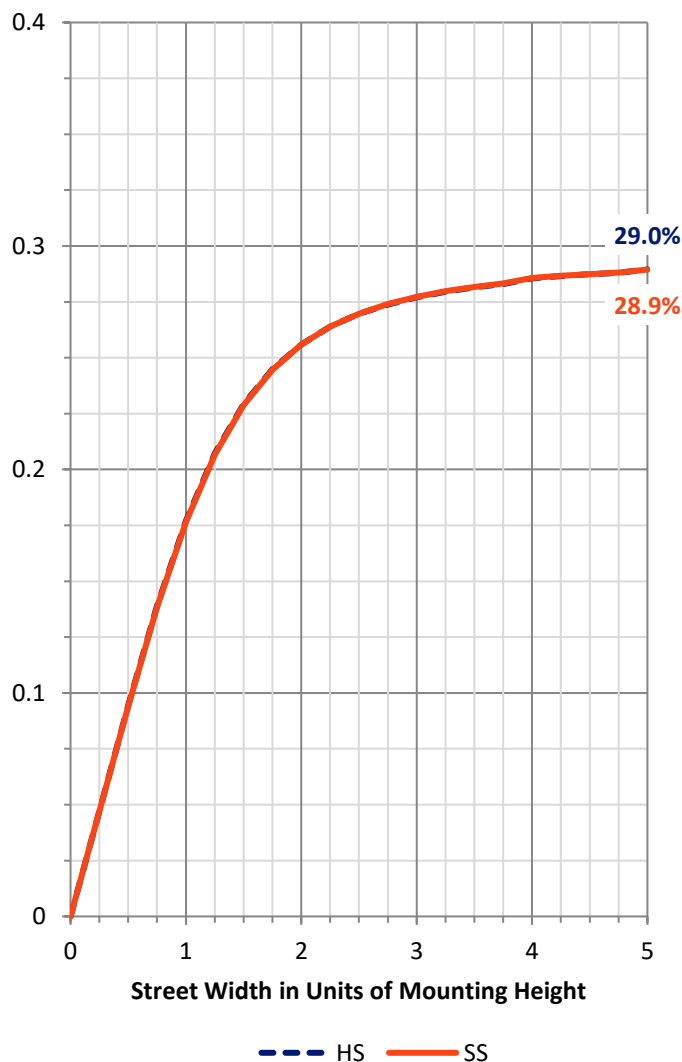
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	566.1	405.8	971.9
	% Fixture	29.1	20.9	50.0
<b>Street Side</b>	Lumens	566.1	405.8	971.9
	% Fixture	29.1	20.9	50.0
<b>Total</b>	Lumens	1132.2	811.5	1943.8
	% Fixture	58.2	41.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.1	0.6
10°-20°	36.5	1.9
20°-30°	77.0	4.0
30°-40°	140.7	7.2
40°-50°	224.0	11.5
50°-60°	270.9	13.9
60°-70°	227.8	11.7
70°-80°	120.7	6.2
80°-90°	23.4	1.2
90°-100°	18.1	0.9
100°-110°	184.1	9.5
110°-120°	269.1	13.8
120°-130°	156.2	8.0
130°-140°	82.7	4.3
140°-150°	49.1	2.5
150°-160°	30.3	1.6
160°-170°	16.5	0.8
170°-180°	5.4	0.3
0°-90°	1132.2	58.2
0°-180°	1943.8	100.0

**Coefficient of Utilization**

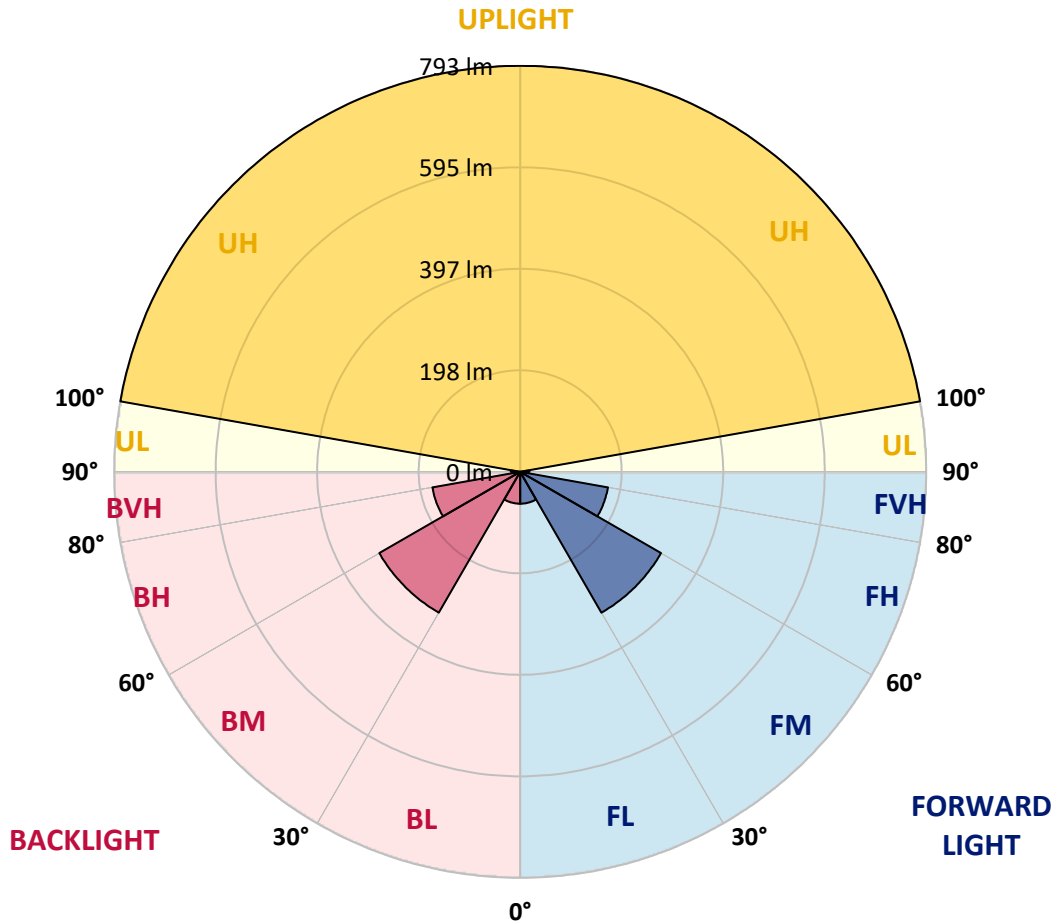


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	62.3	3.2			
FM (30°-60°)	317.8	16.4			
FH (60°-80°)	174.3	9.0			G0/660
FVH (80°-90°)	11.7	0.6			G1/100
BL (0°-30°)	62.3	3.2	B0/110		
BM (30°-60°)	317.8	16.4	B1/1000		
BH (60°-80°)	174.3	9.0	B1/500		G0/660
BVH (80°-90°)	11.7	0.6			G1/100
UL (90°-100°)	18.1	0.9		U2/50	
UH (100°-180°)	793.4	40.8		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°	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
2.5°	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
5°	116.0	116.0	115.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0	116.0
7.5°	116.0	116.0	116.0	117.0	117.0	117.0	117.0	116.0	116.0	116.0	116.0
10°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
12.5°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
15°	126.0	126.0	126.0	126.0	127.0	127.0	127.0	126.0	126.0	126.0	126.0
17.5°	132.0	132.0	133.0	133.0	134.0	134.0	134.0	133.0	132.0	133.0	132.0
20°	141.0	141.0	141.0	142.0	143.0	142.0	143.0	141.0	141.0	141.0	141.0
22.5°	151.0	151.0	151.0	152.0	153.0	153.0	153.0	151.0	151.0	151.0	151.0
25°	163.0	163.0	163.0	164.0	165.0	166.0	166.0	164.0	163.0	163.0	162.0
27.5°	175.0	175.0	177.0	178.0	179.0	179.0	179.0	177.0	176.0	176.0	176.0
30°	189.0	189.0	191.0	192.0	194.0	194.0	194.0	191.0	190.0	189.0	189.0
32.5°	202.0	203.0	205.0	207.0	209.0	209.0	210.0	206.0	204.0	203.0	203.0
35°	216.0	217.0	219.0	222.0	224.0	225.0	226.0	222.0	219.0	218.0	218.0
37.5°	232.0	233.0	236.0	239.0	243.0	245.0	246.0	240.0	235.0	233.0	233.0
40°	250.0	251.0	254.0	258.0	262.0	264.0	265.0	259.0	254.0	252.0	251.0
42.5°	265.0	267.0	270.0	276.0	280.0	283.0	283.0	276.0	270.0	267.0	267.0
45°	279.0	281.0	286.0	292.0	298.0	301.0	300.0	293.0	286.0	282.0	281.0
47.5°	290.0	292.0	298.0	305.0	313.0	316.0	315.0	307.0	298.0	293.0	292.0
50°	296.0	297.0	304.0	314.0	322.0	325.0	323.0	315.0	305.0	298.0	297.0
52.5°	295.0	296.0	304.0	315.0	324.0	327.0	324.0	315.0	305.0	297.0	296.0
55°	289.0	290.0	298.0	310.0	319.0	322.0	319.0	310.0	299.0	291.0	290.0
57.5°	278.0	279.0	287.0	299.0	309.0	312.0	308.0	298.0	287.0	279.0	279.0
60°	262.0	263.0	271.0	284.0	293.0	296.0	291.0	283.0	272.0	263.0	262.0
62.5°	241.0	241.0	250.0	263.0	271.0	275.0	270.0	261.0	251.0	241.0	242.0
65°	216.0	215.0	224.0	236.0	245.0	248.0	243.0	235.0	225.0	216.0	216.0
67.5°	190.0	190.0	197.0	207.0	215.0	218.0	213.0	206.0	198.0	190.0	190.0
70°	162.0	162.0	167.0	177.0	184.0	186.0	183.0	176.0	169.0	162.0	162.0
72.5°	134.0	133.0	138.0	146.0	152.0	154.0	151.0	147.0	139.0	134.0	134.0
75°	106.0	105.0	108.0	115.0	120.0	122.0	119.0	116.0	110.0	106.0	106.0
77.5°	79.0	78.0	81.0	87.0	90.0	91.0	89.0	87.0	82.0	79.0	79.0
80°	54.0	53.0	55.0	59.0	62.0	62.0	61.0	60.0	56.0	54.0	55.0
82.5°	32.0	31.0	33.0	36.0	38.0	37.0	37.0	36.0	33.0	32.0	32.0
85°	14.0	13.0	14.0	16.0	18.0	17.0	17.0	17.0	15.0	14.0	14.0
87.5°	2.0	2.0	2.0	3.0	4.0	3.0	3.0	3.0	2.0	2.0	2.0
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)