

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: P833235

Luminaire Tested: **TTN-D1-750-U-MQ-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833235  
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-D1-750-U-MQ-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

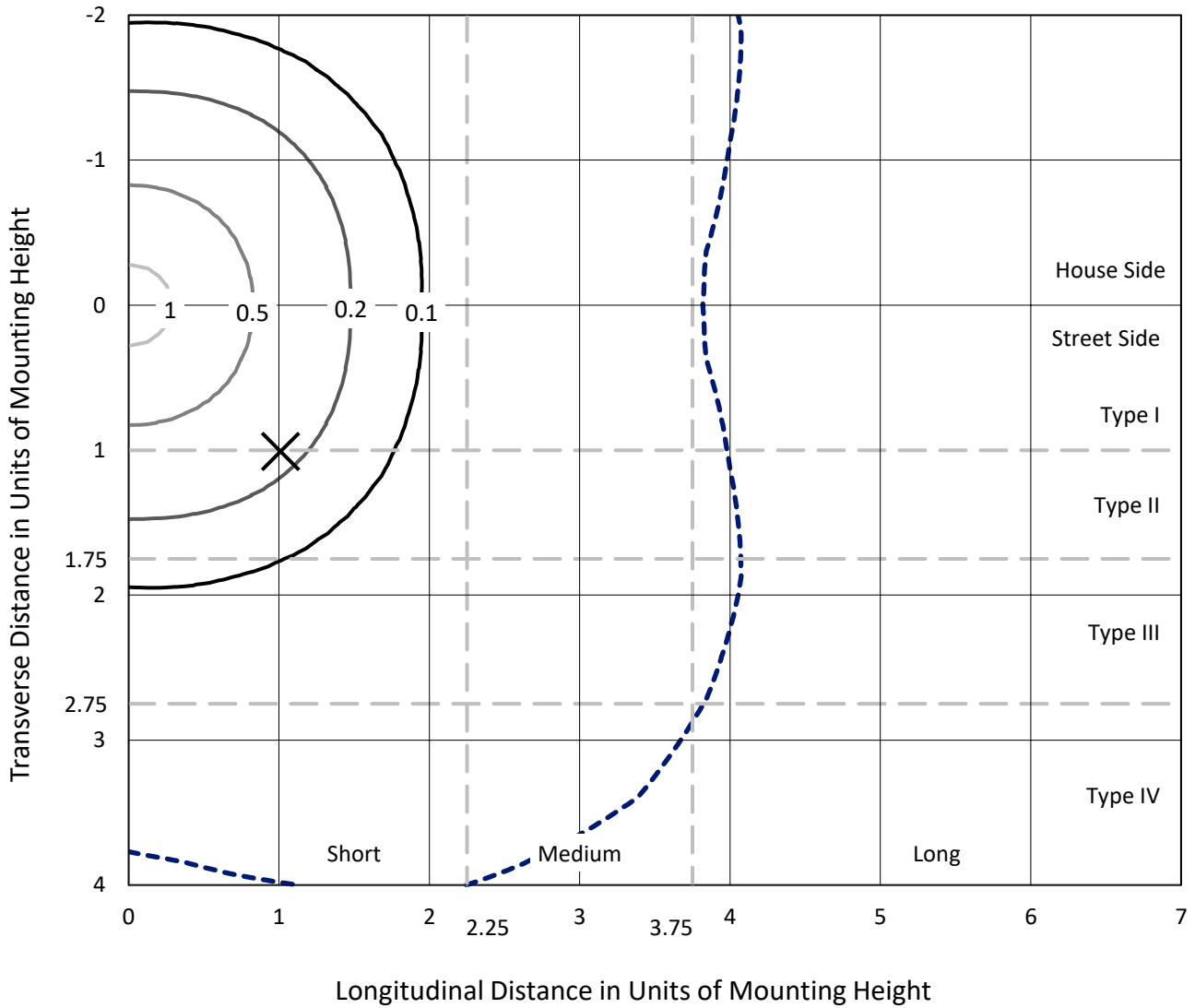
Lumens per Lamp: N/A  
Luminaire Lumens: 4336.7 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U4 - G1  
  
Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (Ain): 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

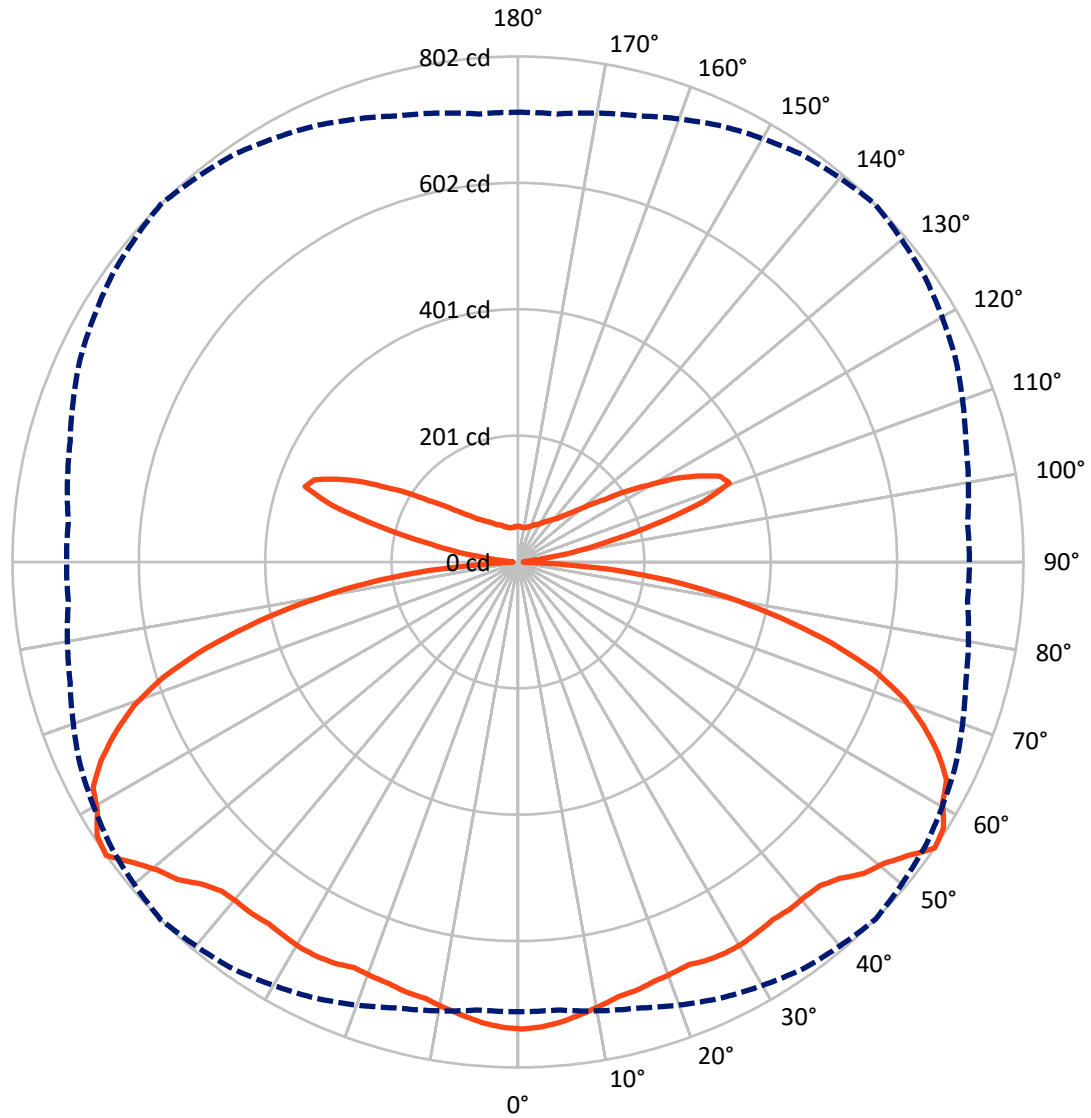
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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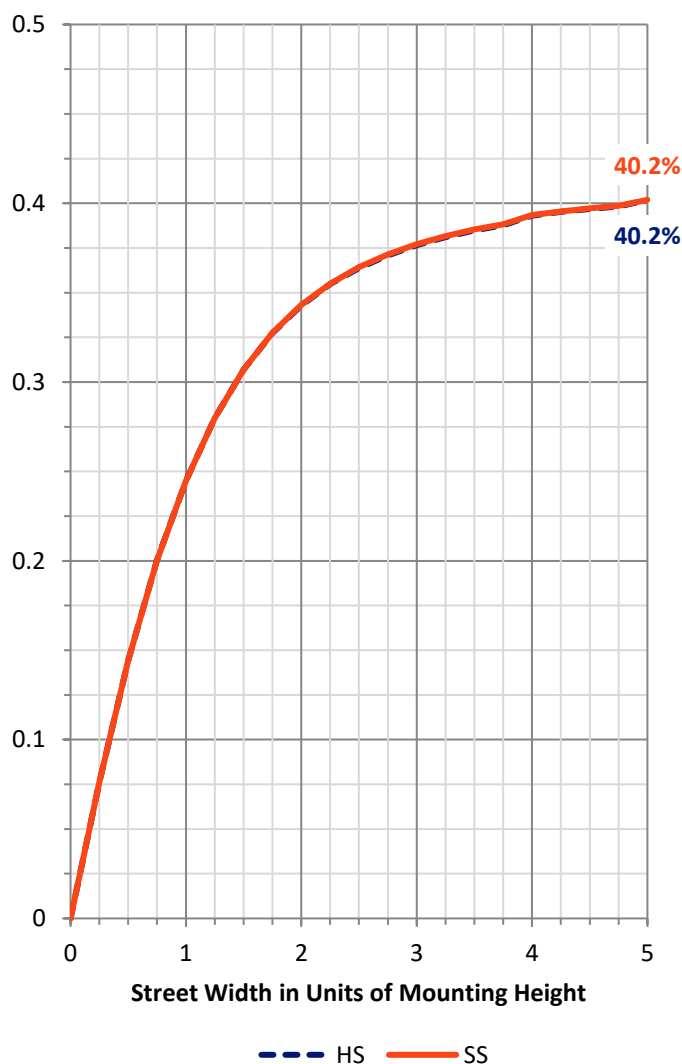
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1762.6	405.8	2168.3
	% Fixture	40.6	9.4	50.0
<b>Street Side</b>	Lumens	1762.6	405.8	2168.3
	% Fixture	40.6	9.4	50.0
<b>Total</b>	Lumens	3525.1	811.5	4336.7
	% Fixture	81.3	18.7	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	1.6
10°-20°	199.2	4.6
20°-30°	322.0	7.4
30°-40°	435.7	10.0
40°-50°	545.7	12.6
50°-60°	668.8	15.4
60°-70°	670.4	15.5
70°-80°	483.8	11.2
80°-90°	130.1	3.0
90°-100°	18.1	0.4
100°-110°	184.1	4.2
110°-120°	269.1	6.2
120°-130°	156.2	3.6
130°-140°	82.7	1.9
140°-150°	49.1	1.1
150°-160°	30.3	0.7
160°-170°	16.5	0.4
170°-180°	5.4	0.1
0°-90°	3525.1	81.3
0°-180°	4336.7	100.0

**Coefficient of Utilization**



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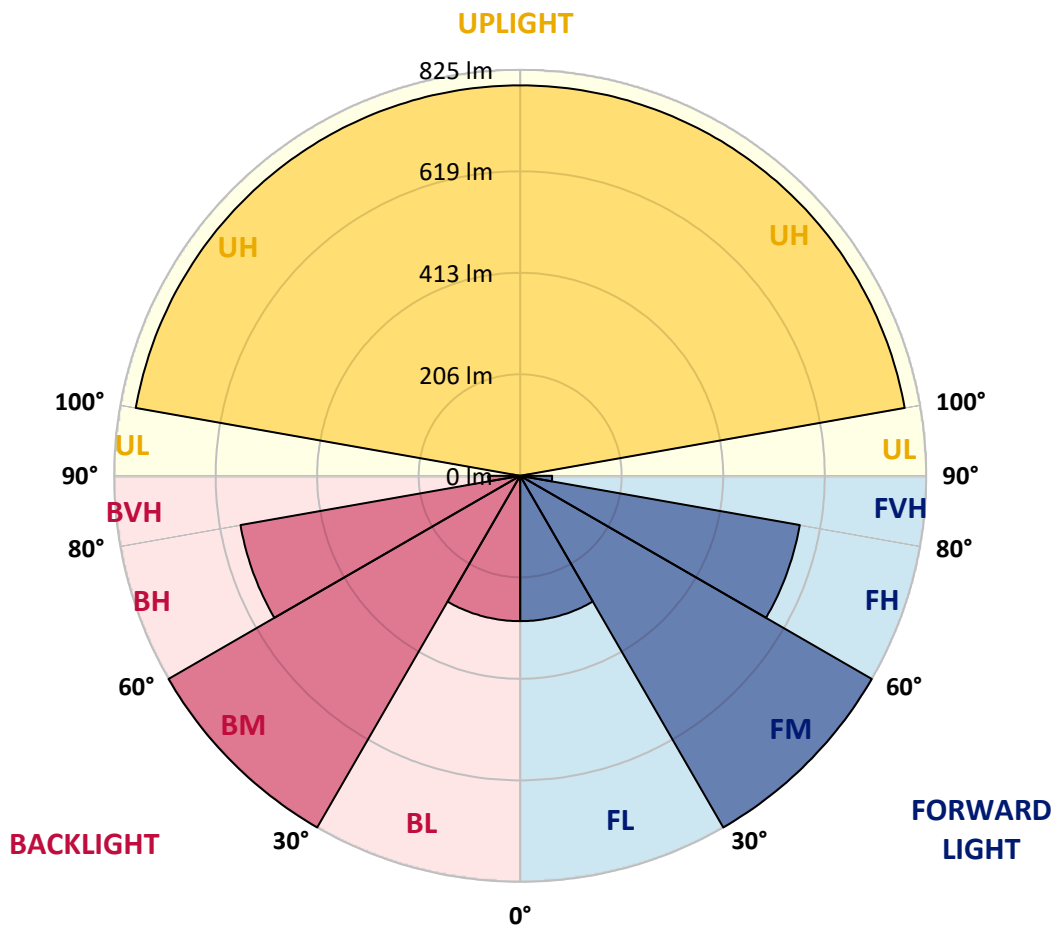
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.3	6.8			
FM (30°-60°)	825.1	19.0			
FH (60°-80°)	577.1	13.3			G0/660
FVH (80°-90°)	65.0	1.5			G1/100
BL (0°-30°)	295.3	6.8	B1/500		
BM (30°-60°)	825.1	19.0	B1/1000		
BH (60°-80°)	577.1	13.3	B2/1000		G0/660
BVH (80°-90°)	65.0	1.5			G1/100
UL (90°-100°)	18.1	0.4		U2/50	
UH (100°-180°)	793.4	18.3		U4/1000	

**BUG Rating: B2-U4-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	741.4	741.4	741.4	741.4	741.4	741.4	741.4	741.4	741.4	741.4	741.4
2.5°	738.7	738.7	738.7	735.9	738.7	738.7	738.7	738.7	738.7	738.7	738.7
5°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
7.5°	724.8	724.8	724.8	724.8	724.8	724.8	724.8	724.8	724.8	724.8	724.8
10°	713.8	713.8	713.8	713.8	716.5	716.5	716.5	716.5	713.8	713.8	713.8
12.5°	705.5	705.5	705.5	708.2	708.2	708.2	708.2	708.2	708.2	708.2	705.5
15°	702.7	702.7	702.7	702.7	705.5	705.5	705.5	705.5	702.7	702.7	702.7
17.5°	697.2	697.2	697.2	699.9	699.9	699.9	699.9	699.9	697.2	697.2	697.2
20°	691.6	691.6	694.4	694.4	697.2	697.2	697.2	694.4	694.4	691.6	694.4
22.5°	691.6	691.6	691.6	694.4	694.4	694.4	694.4	691.6	691.6	691.6	691.6
25°	691.6	691.6	694.4	697.2	697.2	699.9	697.2	694.4	691.6	691.6	691.6
27.5°	694.4	694.4	697.2	699.9	699.9	702.7	699.9	697.2	694.4	694.4	694.4
30°	694.4	694.4	697.2	699.9	699.9	702.7	699.9	697.2	694.4	694.4	694.4
32.5°	688.9	691.6	694.4	697.2	699.9	699.9	699.9	697.2	694.4	691.6	691.6
35°	686.1	688.9	691.6	694.4	697.2	697.2	697.2	694.4	691.6	688.9	688.9
37.5°	683.3	683.3	688.9	691.6	694.4	699.9	697.2	691.6	688.9	686.1	686.1
40°	680.6	683.3	686.1	691.6	694.4	699.9	697.2	691.6	686.1	683.3	683.3
42.5°	680.6	680.6	686.1	691.6	697.2	702.7	699.9	694.4	686.1	683.3	680.6
45°	683.3	686.1	694.4	705.5	711.0	716.5	713.8	705.5	691.6	686.1	683.3
47.5°	694.4	697.2	705.5	716.5	730.4	738.7	730.4	716.5	705.5	697.2	694.4
50°	699.9	702.7	716.5	730.4	749.7	752.5	749.7	730.4	716.5	702.7	702.7
52.5°	711.0	711.0	727.6	752.5	769.1	774.6	769.1	755.3	727.6	713.8	711.0
55°	713.8	713.8	733.1	763.6	788.5	802.3	788.5	766.3	735.9	716.5	716.5
57.5°	697.2	702.7	727.6	758.0	788.5	796.8	788.5	760.8	730.4	705.5	702.7
60°	677.8	686.1	708.2	744.2	766.3	774.6	769.1	744.2	711.0	686.1	683.3
62.5°	658.4	669.5	694.4	722.1	755.3	763.6	755.3	722.1	694.4	669.5	658.4
65°	616.9	628.0	664.0	697.2	727.6	733.1	730.4	697.2	664.0	628.0	622.5
67.5°	575.4	583.7	608.6	661.2	686.1	694.4	688.9	658.4	611.4	583.7	581.0
70°	531.2	539.5	561.6	611.4	636.3	650.1	639.1	611.4	561.6	539.5	536.7
72.5°	473.1	484.1	509.0	553.3	578.2	592.0	581.0	553.3	509.0	481.4	475.8
75°	403.9	412.2	442.6	478.6	503.5	514.6	506.3	481.4	442.6	412.2	409.4
77.5°	329.2	337.5	365.2	401.1	415.0	426.0	417.7	398.4	365.2	337.5	334.7
80°	249.0	257.3	282.2	309.8	323.7	334.7	326.4	307.1	282.2	257.3	254.5
82.5°	163.2	171.5	193.7	215.8	229.6	240.7	232.4	213.0	196.4	171.5	168.8
85°	69.2	77.5	96.8	119.0	130.0	141.1	132.8	116.2	96.8	80.2	77.5
87.5°	5.5	8.3	8.3	11.1	8.3	13.8	8.3	8.3	8.3	8.3	8.3
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)