

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: P833610

Luminaire Tested: **TTN-D2-750-U-WQ-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833610  
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-D2-750-U-WQ-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

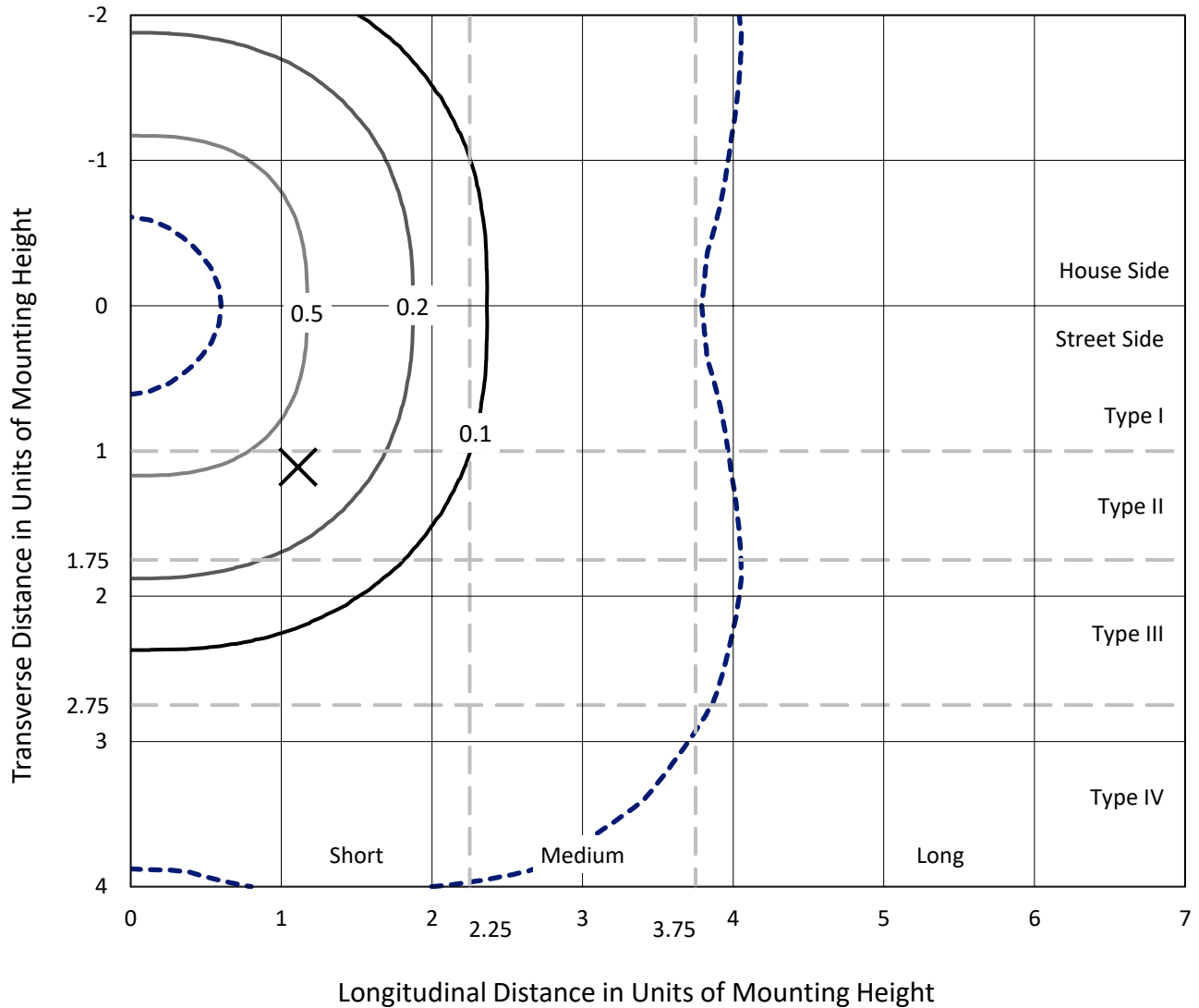
Lumens per Lamp: N/A  
Luminaire Lumens: 6098.7 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 49.5  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P833610  
 CATALOG NUMBER: TTN-D2-750-U-WQ-UPL3

### Iso-Footcandle Lines of Horizontal Illumination

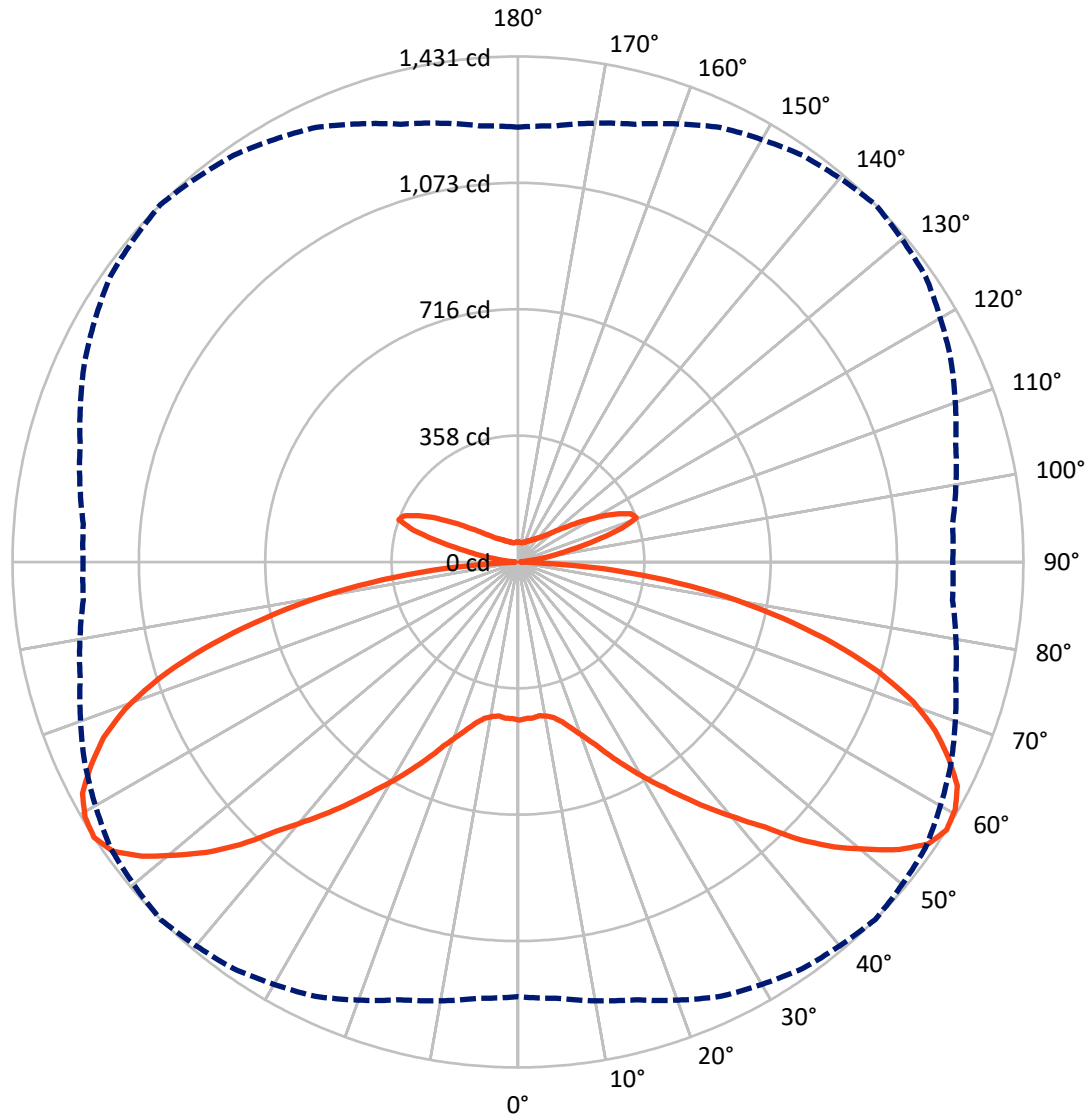
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P833610  
CATALOG NUMBER: TTN-D2-750-U-WQ-UPL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P833610  
 CATALOG NUMBER: TTN-D2-750-U-WQ-UPL3

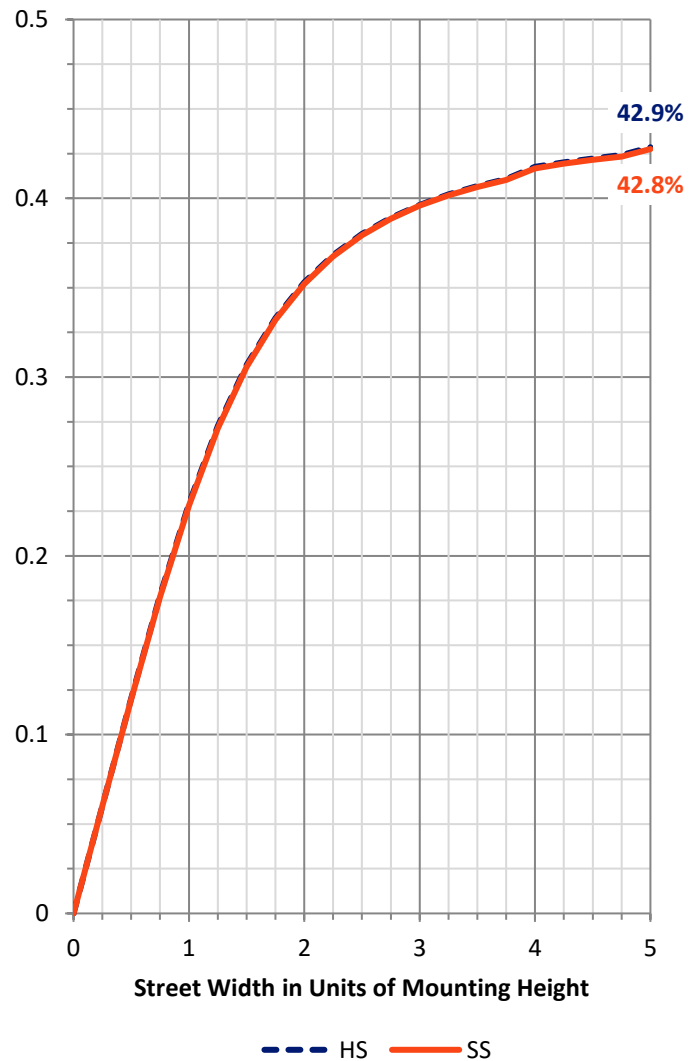
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2643.6	405.8	3049.3
	% Fixture	43.3	6.7	50.0
<b>Street Side</b>	Lumens	2643.6	405.8	3049.3
	% Fixture	43.3	6.7	50.0
<b>Total</b>	Lumens	5287.1	811.5	6098.7
	% Fixture	86.7	13.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	0.7
10°-20°	134.4	2.2
20°-30°	282.0	4.6
30°-40°	511.6	8.4
40°-50°	834.0	13.7
50°-60°	1167.3	19.1
60°-70°	1218.6	20.0
70°-80°	870.7	14.3
80°-90°	226.4	3.7
90°-100°	18.1	0.3
100°-110°	184.1	3.0
110°-120°	269.1	4.4
120°-130°	156.2	2.6
130°-140°	82.7	1.4
140°-150°	49.1	0.8
150°-160°	30.3	0.5
160°-170°	16.5	0.3
170°-180°	5.4	0.1
0°-90°	5287.1	86.7
0°-180°	6098.7	100.0



REPORT NUMBER: P833610

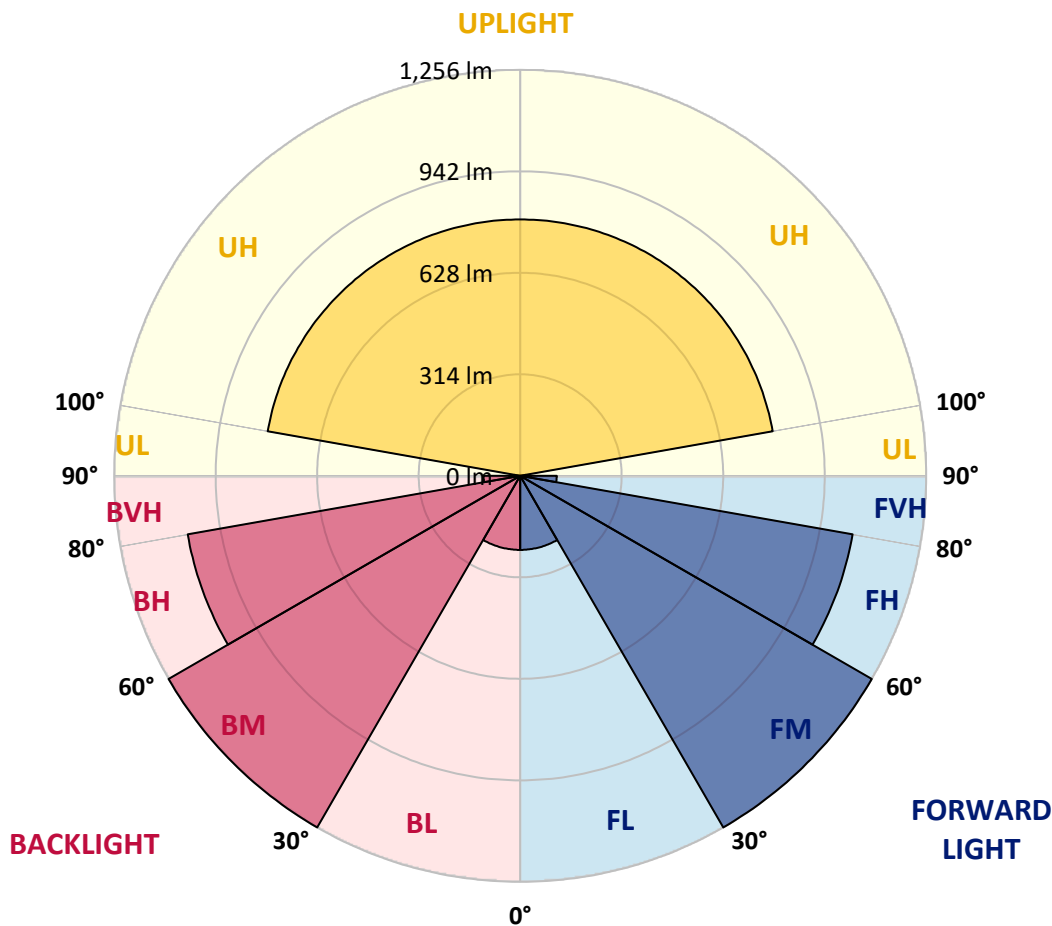
CATALOG NUMBER: TTN-D2-750-U-WQ-UPL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.3	3.8			
FM (30°-60°)	1256.4	20.6			
FH (60°-80°)	1044.7	17.1			G1/1800
FVH (80°-90°)	113.2	1.9			G2/225
BL (0°-30°)	229.3	3.8	B1/500		
BM (30°-60°)	1256.4	20.6	B2/2500		
BH (60°-80°)	1044.7	17.1	B3/2500		G1/1800
BVH (80°-90°)	113.2	1.9			G2/225
UL (90°-100°)	18.1	0.3		U2/50	
UH (100°-180°)	793.4	13.0		U4/1000	

**BUG Rating: B3-U4-G2**

Type V Short





REPORT NUMBER: P833610  
 CATALOG NUMBER: TTN-D2-750-U-WQ-UPL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
5°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
7.5°	435.0	435.0	439.4	439.4	439.4	439.4	439.4	439.4	439.4	439.4	439.4
10°	435.0	435.0	439.4	439.4	443.7	443.7	443.7	439.4	439.4	435.0	435.0
12.5°	443.7	443.7	443.7	448.1	452.4	452.4	452.4	448.1	448.1	443.7	443.7
15°	456.8	461.1	461.1	465.5	469.8	469.8	469.8	465.5	465.5	461.1	461.1
17.5°	482.9	482.9	482.9	487.2	491.6	495.9	495.9	487.2	487.2	482.9	487.2
20°	509.0	513.3	513.3	517.7	522.0	526.4	522.0	517.7	513.3	513.3	513.3
22.5°	548.1	548.1	552.5	552.5	561.2	561.2	561.2	552.5	552.5	552.5	552.5
25°	591.6	591.6	596.0	600.3	609.0	609.0	604.7	596.0	596.0	596.0	600.3
27.5°	643.8	643.8	648.2	648.2	656.9	656.9	652.5	648.2	648.2	648.2	652.5
30°	691.7	691.7	700.4	704.7	709.1	709.1	709.1	700.4	700.4	696.0	696.0
32.5°	735.2	739.5	743.9	756.9	765.6	761.3	765.6	756.9	748.2	743.9	743.9
35°	783.0	787.4	796.1	809.1	822.2	822.2	822.2	809.1	800.4	791.7	796.1
37.5°	839.6	839.6	852.6	865.7	883.1	887.4	883.1	870.0	857.0	848.3	848.3
40°	900.5	900.5	913.5	926.6	948.3	952.7	948.3	930.9	913.5	909.2	909.2
42.5°	961.4	961.4	978.8	991.8	1017.9	1026.6	1017.9	996.2	978.8	965.7	970.1
45°	1026.6	1031.0	1052.7	1078.8	1109.3	1122.3	1109.3	1083.2	1057.1	1031.0	1031.0
47.5°	1100.6	1100.6	1126.7	1157.1	1191.9	1205.0	1187.6	1161.5	1126.7	1104.9	1104.9
50°	1148.4	1152.8	1187.6	1226.7	1270.2	1278.9	1265.9	1226.7	1187.6	1157.1	1152.8
52.5°	1196.3	1200.6	1239.8	1296.3	1339.8	1352.9	1335.5	1296.3	1239.8	1200.6	1200.6
55°	1226.7	1235.4	1278.9	1339.8	1387.7	1409.4	1383.3	1339.8	1274.6	1231.1	1226.7
57.5°	1231.1	1239.8	1283.3	1357.2	1405.1	1431.2	1409.4	1352.9	1283.3	1235.4	1231.1
60°	1222.4	1226.7	1270.2	1348.5	1405.1	1422.5	1405.1	1344.2	1265.9	1226.7	1218.0
62.5°	1200.6	1209.3	1252.8	1318.1	1383.3	1396.4	1379.0	1313.7	1248.5	1200.6	1191.9
65°	1131.0	1139.7	1205.0	1270.2	1326.8	1339.8	1326.8	1270.2	1200.6	1131.0	1122.3
67.5°	1052.7	1057.1	1122.3	1200.6	1252.8	1274.6	1252.8	1205.0	1118.0	1052.7	1044.0
70°	970.1	974.4	1026.6	1109.3	1161.5	1187.6	1165.8	1113.6	1022.3	965.7	961.4
72.5°	874.4	874.4	926.6	991.8	1044.0	1070.1	1052.7	987.5	917.9	861.3	852.6
75°	743.9	748.2	804.8	852.6	909.2	926.6	909.2	857.0	791.7	735.2	726.5
77.5°	609.0	613.4	661.2	700.4	752.6	765.6	752.6	709.1	648.2	600.3	596.0
80°	461.1	465.5	504.6	539.4	582.9	600.3	587.3	543.8	495.9	452.4	439.4
82.5°	300.2	304.5	343.7	369.8	408.9	422.0	413.3	374.1	335.0	291.5	287.1
85°	134.9	139.2	174.0	195.8	226.2	239.3	230.6	195.8	165.3	126.2	117.5
87.5°	13.1	13.1	13.1	13.1	13.1	17.4	17.4	13.1	13.1	13.1	13.1
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



REPORT NUMBER: P833610  
 CATALOG NUMBER: TTN-D2-750-U-WQ-UPL3

**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)