

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: P833238

Luminaire Tested: **TTN-D1-750-U-RW-CG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833238  
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-RW-CG-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

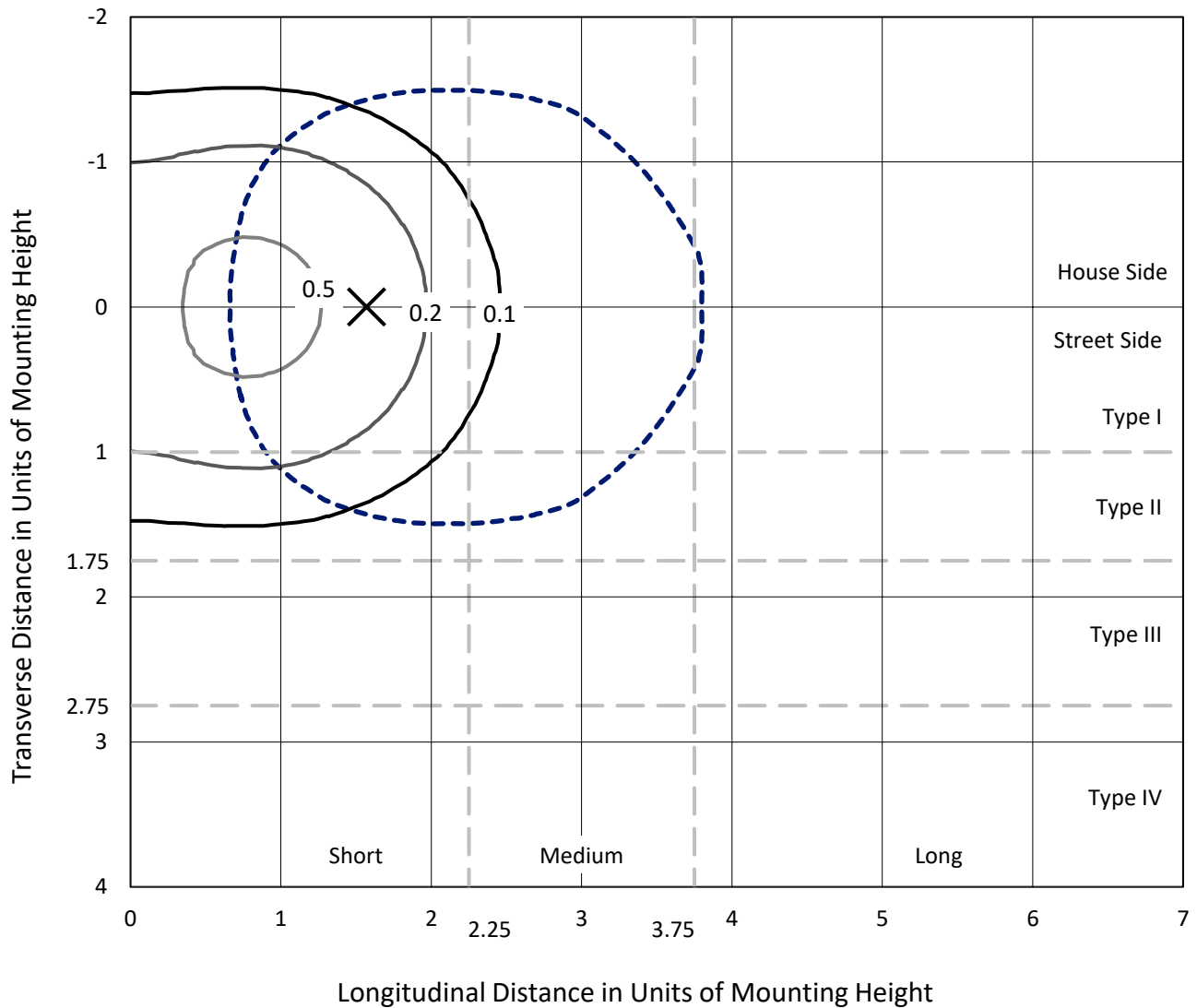
Lumens per Lamp: N/A  
Luminaire Lumens: 3885.6 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type II - Short  
BUG Rating: B2 - U4 - G2  
  
Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (Ain): 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

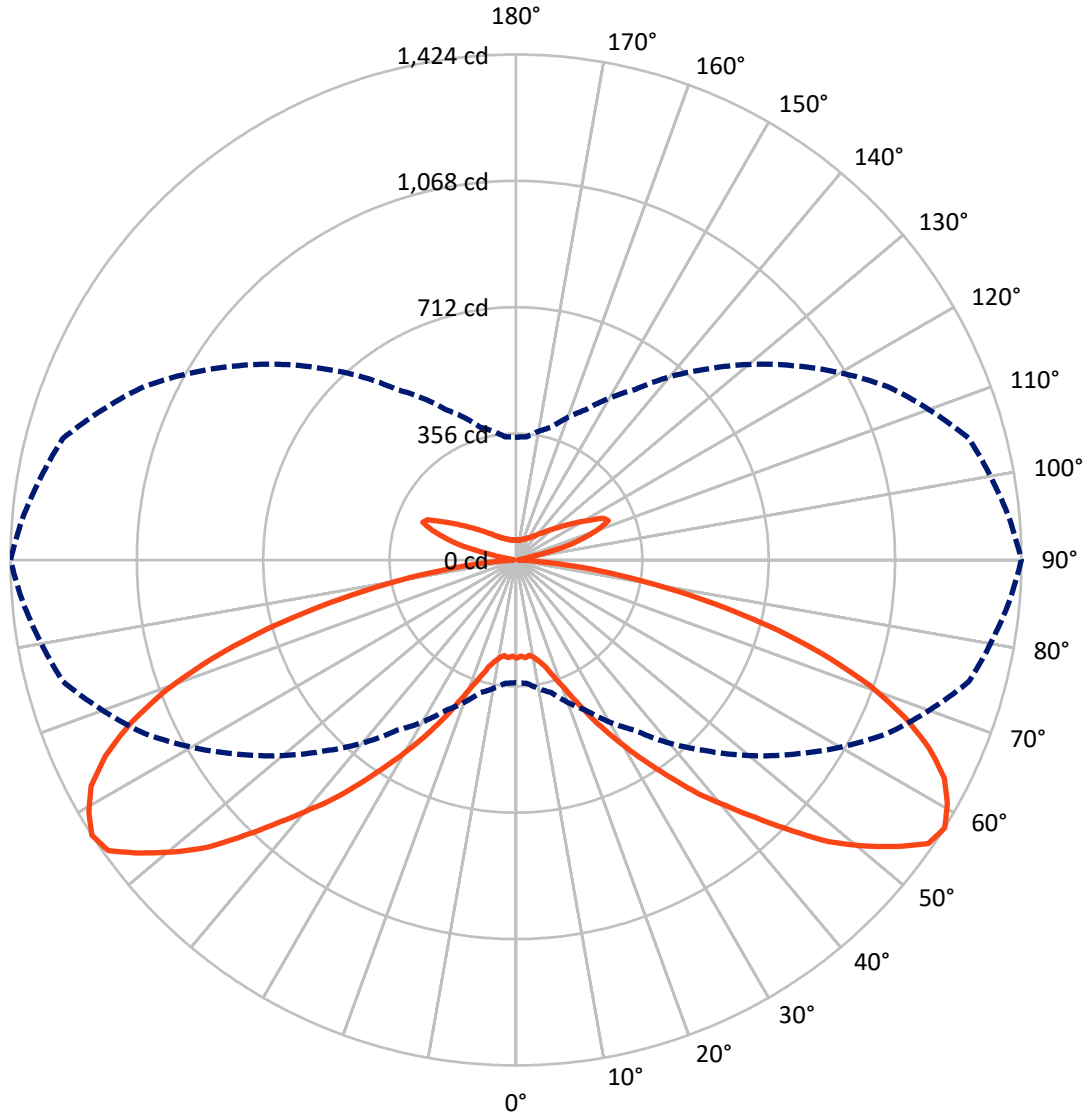
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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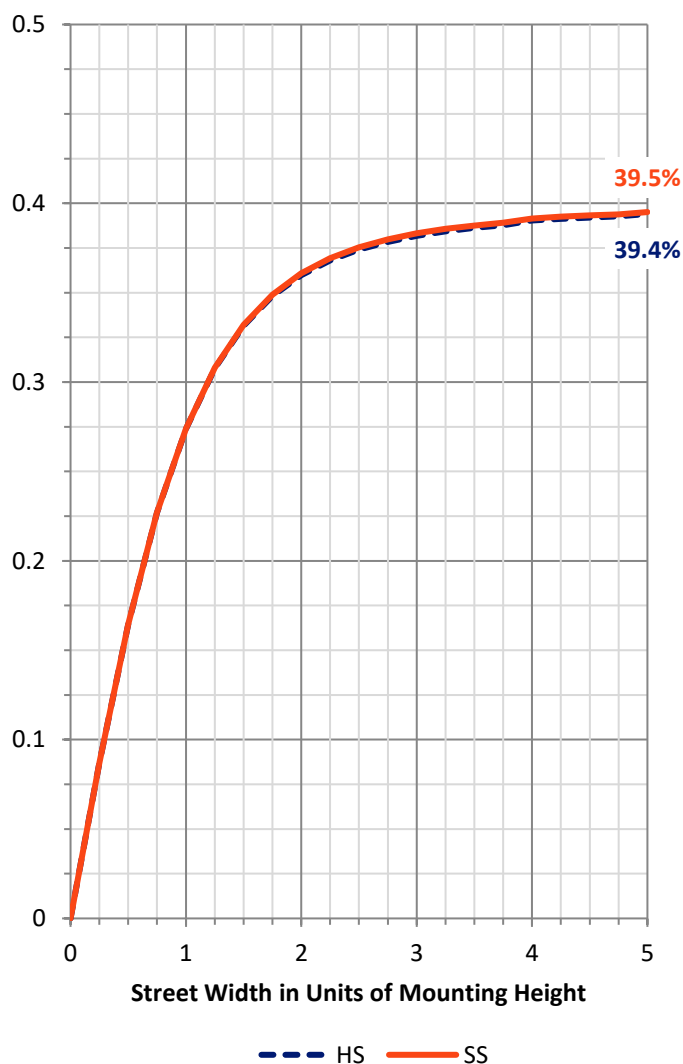
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1537.0	405.8	1942.8
	% Fixture	39.6	10.4	50.0
<b>Street Side</b>	Lumens	1537.0	405.8	1942.8
	% Fixture	39.6	10.4	50.0
<b>Total</b>	Lumens	3074.1	811.5	3885.6
	% Fixture	79.1	20.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.3	0.7
10°-20°	84.9	2.2
20°-30°	180.7	4.7
30°-40°	333.1	8.6
40°-50°	536.3	13.8
50°-60°	725.9	18.7
60°-70°	705.7	18.2
70°-80°	410.6	10.6
80°-90°	70.5	1.8
90°-100°	18.1	0.5
100°-110°	184.1	4.7
110°-120°	269.1	6.9
120°-130°	156.2	4.0
130°-140°	82.7	2.1
140°-150°	49.1	1.3
150°-160°	30.3	0.8
160°-170°	16.5	0.4
170°-180°	5.4	0.1
0°-90°	3074.1	79.1
0°-180°	3885.6	100.0

**Coefficient of Utilization**



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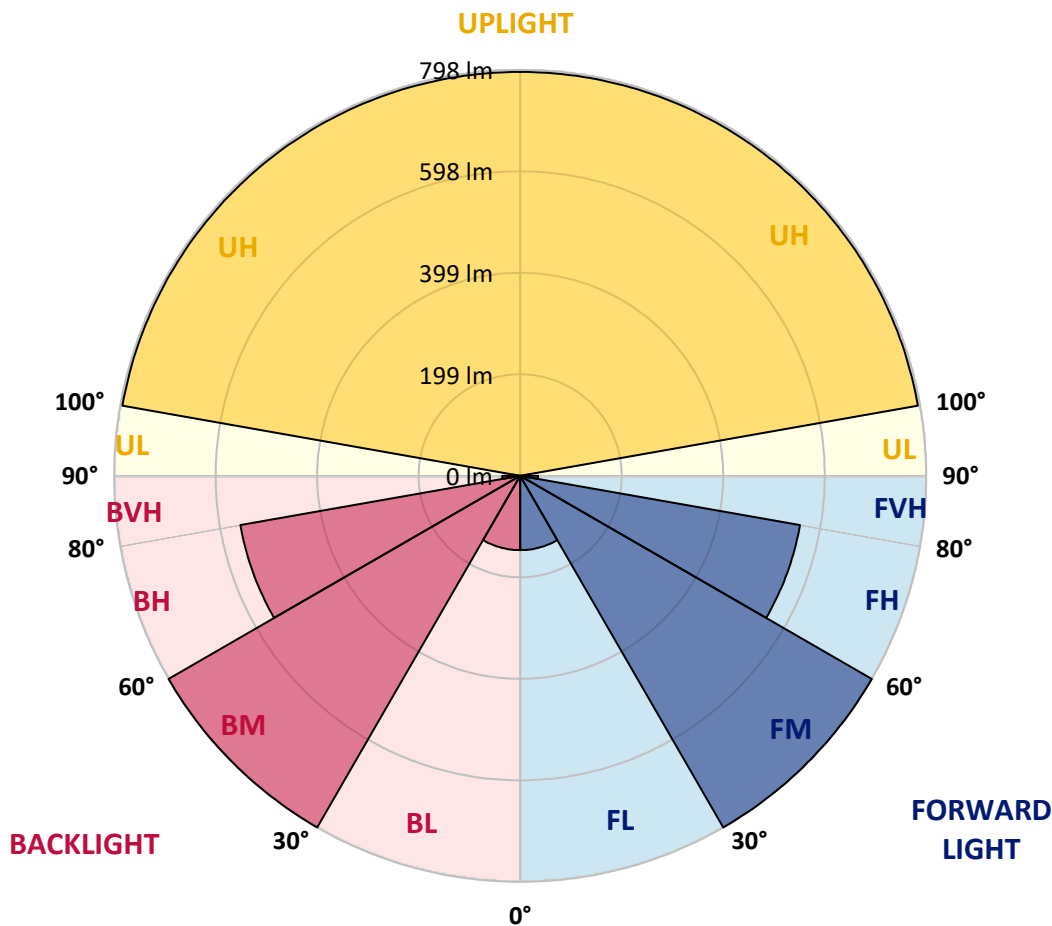
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.0	3.8			
FM (30°-60°)	797.6	20.5			
FH (60°-80°)	558.2	14.4			G0/660
FVH (80°-90°)	35.3	0.9			G1/100
BL (0°-30°)	146.0	3.8	B1/500		
BM (30°-60°)	797.6	20.5	B1/1000		
BH (60°-80°)	558.2	14.4	B2/1000		G2/1000
BVH (80°-90°)	35.3	0.9			G1/100
UL (90°-100°)	18.1	0.5		U2/50	
UH (100°-180°)	793.4	20.4		U4/1000	

**BUG Rating: B2-U4-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5	276.5
2.5°	276.5	276.5	276.5	276.5	273.7	273.7	273.7	271.0	271.0	271.0	271.0
5°	276.5	276.5	276.5	279.3	279.3	279.3	276.5	276.5	276.5	276.5	276.5
7.5°	276.5	279.3	279.3	276.5	276.5	273.7	273.7	273.7	271.0	271.0	271.0
10°	276.5	276.5	276.5	276.5	273.7	273.7	276.5	276.5	279.3	279.3	279.3
12.5°	273.7	273.7	276.5	276.5	276.5	279.3	284.8	287.6	290.3	293.1	293.1
15°	276.5	276.5	279.3	282.0	284.8	290.3	298.6	306.9	312.4	315.2	312.4
17.5°	276.5	279.3	282.0	287.6	295.8	304.1	318.0	329.0	340.1	342.8	345.6
20°	282.0	282.0	284.8	295.8	309.7	323.5	342.8	362.2	376.0	381.6	381.6
22.5°	284.8	287.6	290.3	304.1	326.3	348.4	376.0	398.1	417.5	428.6	431.3
25°	293.1	293.1	298.6	318.0	345.6	378.8	414.7	447.9	472.8	486.6	489.4
27.5°	298.6	301.4	309.7	334.6	370.5	412.0	461.7	500.4	530.9	547.5	550.2
30°	304.1	306.9	323.5	351.1	395.4	445.2	503.2	553.0	591.7	611.0	613.8
32.5°	312.4	315.2	334.6	365.0	417.5	478.3	544.7	605.5	660.8	677.4	680.2
35°	320.7	323.5	345.6	381.6	442.4	511.5	588.9	660.8	727.2	749.3	754.8
37.5°	329.0	331.8	353.9	398.1	467.3	547.5	638.7	724.4	796.3	826.7	835.0
40°	337.3	340.1	365.0	414.7	492.2	586.2	691.2	785.2	868.2	904.1	909.7
42.5°	342.8	345.6	373.3	428.6	517.0	622.1	746.5	851.6	940.1	987.1	992.6
45°	351.1	353.9	384.3	447.9	539.2	663.6	799.1	926.2	1028.5	1081.1	1086.6
47.5°	356.7	359.4	392.6	459.0	564.0	702.3	854.4	992.6	1114.3	1169.6	1186.1
50°	359.4	362.2	398.1	470.0	580.6	729.9	898.6	1059.0	1188.9	1258.0	1266.3
52.5°	359.4	365.0	400.9	478.3	591.7	754.8	934.5	1114.3	1260.8	1338.2	1341.0
55°	356.7	359.4	398.1	475.6	597.2	765.9	959.4	1147.4	1310.6	1385.2	1410.1
57.5°	345.6	348.4	387.1	467.3	586.2	760.4	953.9	1155.7	1321.6	1393.5	1423.9
60°	329.0	334.6	370.5	447.9	569.6	741.0	937.3	1139.1	1305.0	1393.5	1396.3
62.5°	309.7	312.4	348.4	423.0	544.7	710.6	906.9	1106.0	1266.3	1357.6	1354.8
65°	282.0	284.8	315.2	392.6	500.4	652.5	846.1	1053.4	1191.7	1288.4	1280.2
67.5°	251.6	254.4	282.0	351.1	447.9	588.9	763.1	965.0	1086.6	1186.1	1180.6
70°	218.4	218.4	243.3	301.4	392.6	517.0	671.9	848.8	970.5	1053.4	1056.2
72.5°	179.7	179.7	201.8	251.6	329.0	434.1	566.8	724.4	823.9	895.8	901.4
75°	141.0	138.2	157.6	199.1	259.9	345.6	447.9	583.4	660.8	729.9	727.2
77.5°	99.5	99.5	110.6	143.8	188.0	257.1	331.8	439.6	492.2	550.2	539.2
80°	63.6	63.6	69.1	94.0	124.4	171.4	218.4	298.6	334.6	378.8	365.0
82.5°	33.2	30.4	35.9	49.8	66.4	94.0	121.7	174.2	190.8	224.0	212.9
85°	11.1	11.1	11.1	16.6	24.9	35.9	47.0	74.7	77.4	99.5	91.2
87.5°	2.8	0.0	0.0	2.8	2.8	2.8	2.8	8.3	8.3	16.6	11.1
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



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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)