

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: P834050

Luminaire Tested: **TTN-D3-830-U-RW-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P834050  
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-D3-830-U-RW-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

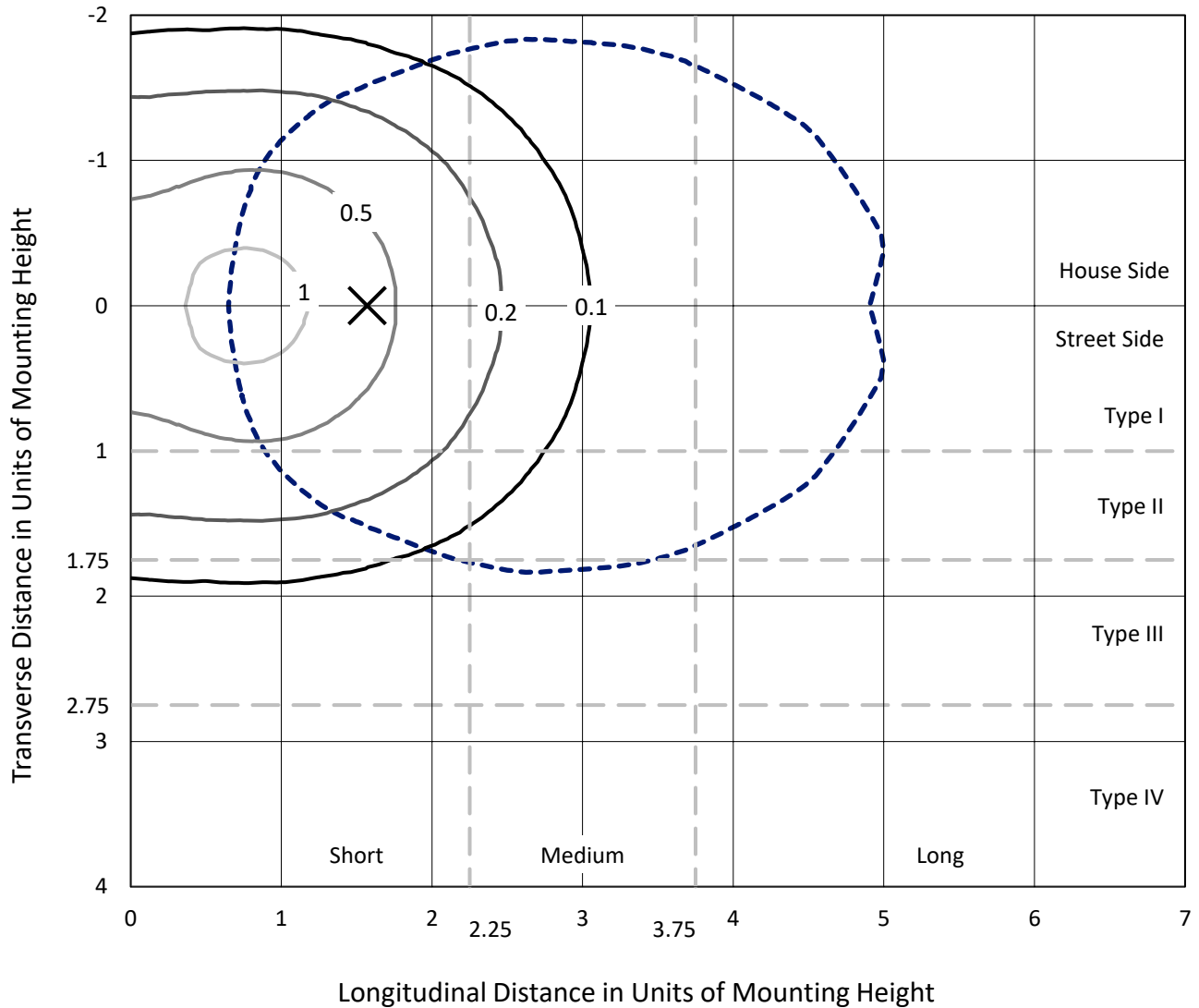
Lumens per Lamp: N/A  
Luminaire Lumens: 6682.8 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type II - Short  
BUG Rating: B3 - U4 - G3  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P834050  
 CATALOG NUMBER: TTN-D3-830-U-RW-UPL2

### Iso-Footcandle Lines of Horizontal Illumination

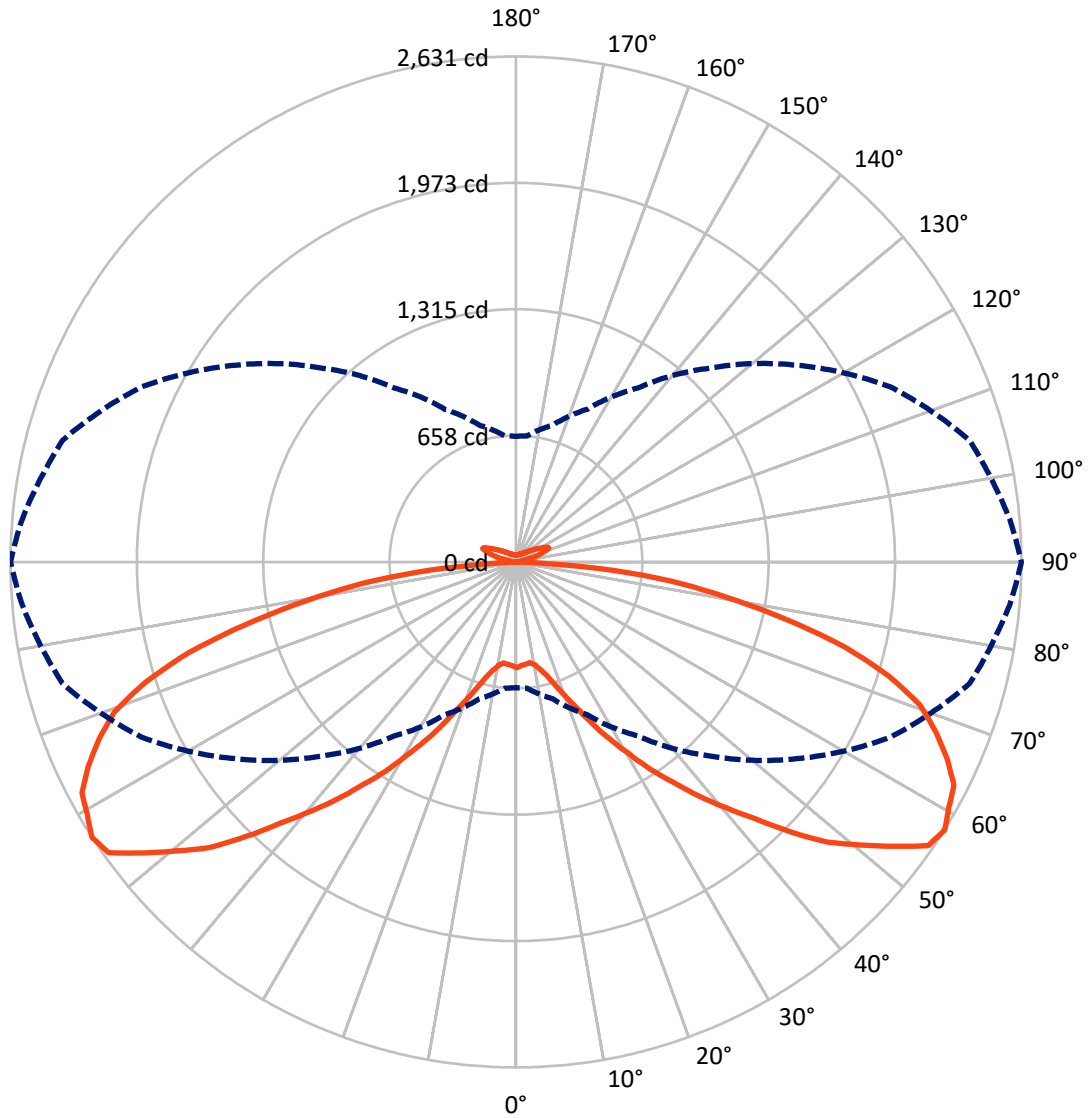
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P834050  
CATALOG NUMBER: TTN-D3-830-U-RW-UPL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P834050

CATALOG NUMBER: TTN-D3-830-U-RW-UPL2

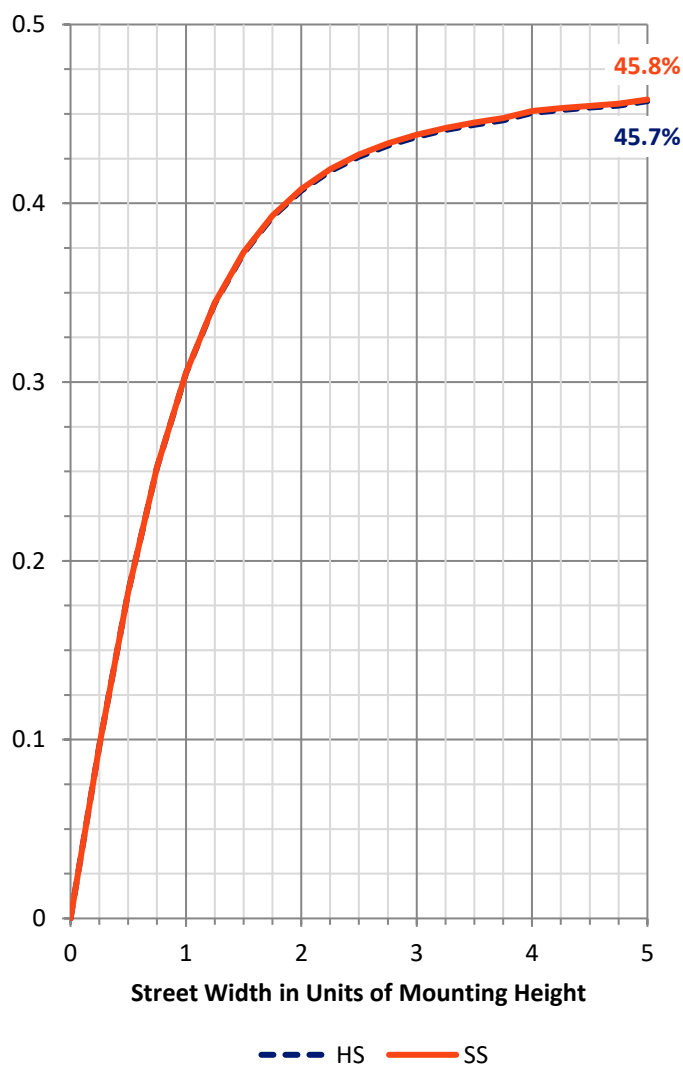
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3074.4	267.0	3341.4
	% Fixture	46.0	4.0	50.0
<b>Street Side</b>	Lumens	3074.4	267.0	3341.4
	% Fixture	46.0	4.0	50.0
<b>Total</b>	Lumens	6148.7	534.0	6682.8
	% Fixture	92.0	8.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	0.8
10°-20°	164.9	2.5
20°-30°	344.0	5.1
30°-40°	616.9	9.2
40°-50°	985.8	14.8
50°-60°	1349.5	20.2
60°-70°	1392.0	20.8
70°-80°	989.9	14.8
80°-90°	254.1	3.8
90°-100°	11.9	0.2
100°-110°	121.1	1.8
110°-120°	177.1	2.7
120°-130°	102.8	1.5
130°-140°	54.4	0.8
140°-150°	32.3	0.5
150°-160°	19.9	0.3
160°-170°	10.9	0.2
170°-180°	3.5	0.1
0°-90°	6148.7	92.0
0°-180°	6682.8	100.0

**Coefficient of Utilization**

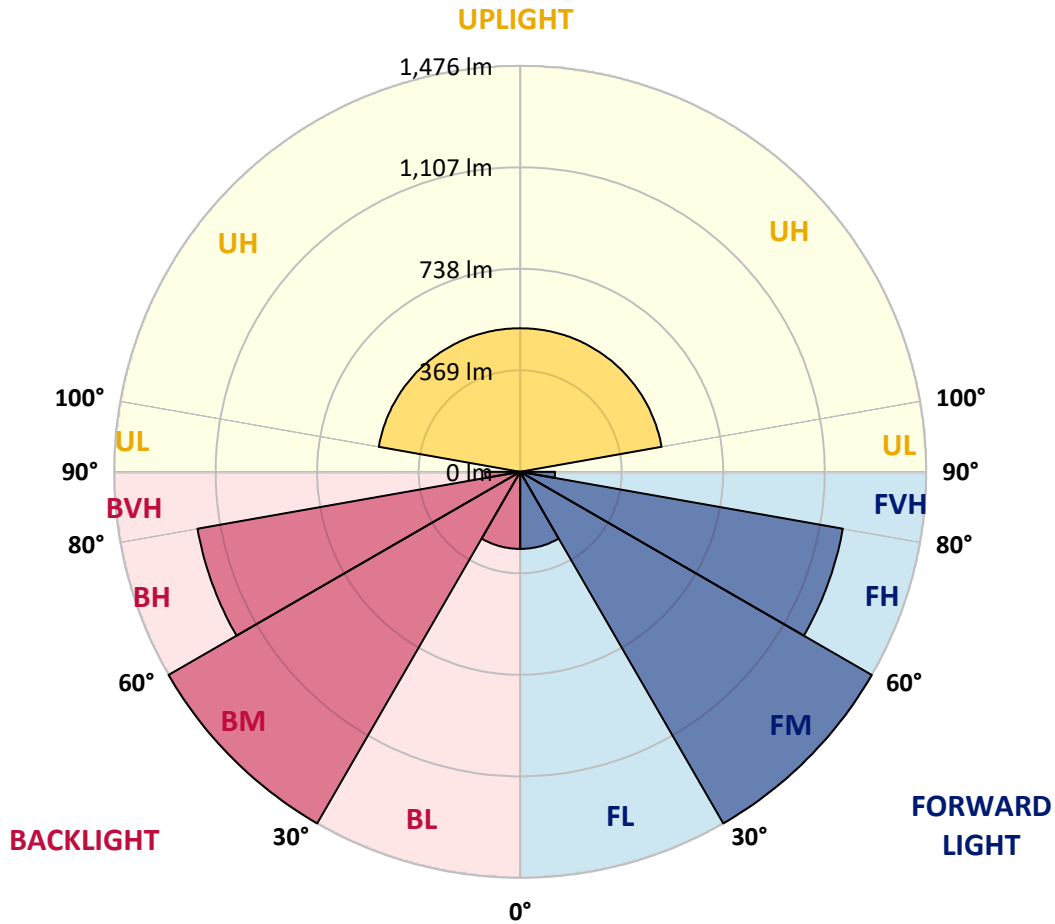


REPORT NUMBER: P834050  
 CATALOG NUMBER: TTN-D3-830-U-RW-UPL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.2	4.2			
FM (30°-60°)	1476.1	22.1			
FH (60°-80°)	1191.0	17.8			G1/1800
FVH (80°-90°)	127.1	1.9			G2/225
BL (0°-30°)	280.2	4.2	B1/500		
BM (30°-60°)	1476.1	22.1	B2/2500		
BH (60°-80°)	1191.0	17.8	B3/2500		G3/2500
BVH (80°-90°)	127.1	1.9			G2/225
UL (90°-100°)	11.9	0.2		U2/50	
UH (100°-180°)	522.1	7.8		U4/1000	

**BUG Rating: B3-U4-G3**  
 Type II Short





REPORT NUMBER: P834050

CATALOG NUMBER: TTN-D3-830-U-RW-UPL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0
2.5°	550.0	550.0	544.8	544.8	544.8	539.6	539.6	539.6	539.6	534.4	539.6
5°	550.0	550.0	550.0	550.0	544.8	539.6	539.6	539.6	534.4	534.4	534.4
7.5°	544.8	544.8	544.8	544.8	539.6	534.4	534.4	534.4	529.2	529.2	529.2
10°	539.6	544.8	539.6	539.6	534.4	534.4	539.6	539.6	544.8	544.8	544.8
12.5°	534.4	534.4	534.4	539.6	539.6	544.8	555.2	565.5	570.7	575.9	575.9
15°	534.4	534.4	539.6	544.8	555.2	565.5	581.1	596.7	607.0	617.4	617.4
17.5°	534.4	534.4	539.6	555.2	570.7	591.5	617.4	638.2	658.9	674.5	679.7
20°	534.4	534.4	544.8	565.5	596.7	627.8	664.1	695.2	726.4	752.3	752.3
22.5°	539.6	544.8	555.2	581.1	627.8	674.5	721.2	767.9	804.2	835.3	835.3
25°	550.0	550.0	565.5	607.0	664.1	726.4	793.8	850.9	897.6	939.1	939.1
27.5°	555.2	560.3	581.1	633.0	705.6	783.4	876.8	944.3	1006.5	1042.9	1048.0
30°	565.5	570.7	601.8	653.7	741.9	840.5	949.5	1042.9	1110.3	1146.6	1157.0
32.5°	570.7	575.9	617.4	679.7	778.2	892.4	1016.9	1136.2	1229.6	1271.1	1286.7
35°	586.3	591.5	633.0	705.6	819.8	949.5	1094.7	1234.8	1343.8	1395.7	1406.0
37.5°	601.8	607.0	648.5	731.6	861.3	1011.7	1177.8	1338.6	1463.1	1525.4	1546.1
40°	612.2	617.4	664.1	762.7	908.0	1079.2	1271.1	1447.5	1587.6	1665.5	1681.0
42.5°	627.8	633.0	684.9	788.6	949.5	1146.6	1369.7	1566.9	1717.3	1805.5	1826.3
45°	643.4	648.5	705.6	819.8	996.2	1219.3	1468.3	1707.0	1878.2	1981.9	2002.7
47.5°	658.9	664.1	726.4	850.9	1042.9	1291.9	1572.1	1831.5	2039.0	2137.6	2179.1
50°	664.1	674.5	736.7	871.6	1074.0	1354.2	1660.3	1956.0	2173.9	2303.6	2314.0
52.5°	669.3	679.7	747.1	887.2	1099.9	1400.8	1732.9	2059.8	2314.0	2469.6	2459.3
55°	674.5	674.5	747.1	887.2	1110.3	1432.0	1784.8	2127.2	2407.4	2531.9	2604.5
57.5°	653.7	658.9	736.7	876.8	1105.1	1426.8	1784.8	2153.2	2443.7	2578.6	2630.5
60°	627.8	638.2	710.8	850.9	1084.4	1411.2	1774.4	2142.8	2459.3	2604.5	2589.0
62.5°	591.5	612.2	674.5	814.6	1053.2	1374.9	1758.8	2116.8	2422.9	2573.4	2557.8
65°	550.0	570.7	627.8	778.2	985.8	1286.7	1675.8	2065.0	2324.4	2495.6	2464.5
67.5°	508.5	524.0	581.1	716.0	908.0	1193.3	1566.9	1950.8	2184.3	2371.1	2355.5
70°	461.8	466.9	524.0	643.4	830.1	1099.9	1463.1	1790.0	2059.8	2199.9	2231.0
72.5°	404.7	404.7	461.8	565.5	736.7	975.4	1323.0	1608.4	1862.6	1981.9	2028.6
75°	332.1	337.2	383.9	477.3	617.4	835.3	1125.9	1416.4	1629.1	1753.7	1769.2
77.5°	259.4	264.6	300.9	378.7	498.1	674.5	928.7	1157.0	1359.3	1468.3	1437.2
80°	186.8	192.0	217.9	275.0	368.4	503.3	716.0	918.3	1063.6	1151.8	1110.3
82.5°	114.1	119.3	134.9	171.2	233.5	326.9	487.7	638.2	752.3	824.9	809.4
85°	57.1	57.1	67.4	77.8	98.6	145.3	233.5	321.7	409.9	461.8	446.2
87.5°	10.4	15.6	15.6	15.6	15.6	10.4	15.6	15.6	15.6	25.9	10.4
90°	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6
92.5°	4.6	4.6	4.6	6.4	7.3	6.4	7.3	5.5	5.5	4.6	4.6
95°	5.5	5.5	6.4	8.2	10.1	11.0	11.0	6.4	6.4	5.5	5.5
97.5°	7.3	8.2	8.2	10.1	16.4	30.2	18.3	9.1	9.1	8.2	7.3
100°	11.9	12.8	12.8	22.8	48.4	64.9	46.6	23.8	17.4	12.8	12.8
102.5°	38.4	40.2	49.3	74.0	109.6	99.6	84.1	79.5	54.8	43.9	42.0
105°	97.8	96.8	104.2	123.3	153.5	150.8	138.9	126.1	108.7	100.5	100.5
107.5°	128.8	128.8	135.2	151.7	174.5	203.7	206.5	163.5	143.4	134.3	133.4
110°	145.3	145.3	150.8	164.5	194.6	235.7	233.9	201.9	177.3	165.4	163.5



REPORT NUMBER: P834050  
 CATALOG NUMBER: TTN-D3-830-U-RW-UPL2

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	148.9	149.8	157.1	178.2	211.1	229.3	221.1	208.3	197.4	188.2	186.4
115°	154.4	154.4	162.6	182.7	201.0	208.3	199.2	189.1	181.8	178.2	180.0
117.5°	152.6	155.3	157.1	168.1	180.0	185.5	180.9	167.2	161.7	159.9	157.1
120°	141.6	141.6	143.4	148.9	155.3	158.1	156.2	147.1	142.5	141.6	139.8
122.5°	126.1	127.0	126.1	128.8	133.4	136.1	134.3	127.0	125.2	125.2	123.3
125°	110.6	110.6	109.6	111.5	114.2	113.3	114.2	110.6	109.6	109.6	108.7
127.5°	99.6	98.7	96.8	97.8	98.7	98.7	99.6	95.9	96.8	97.8	96.8
130°	88.6	88.6	86.8	86.8	86.8	85.0	86.8	85.0	85.9	86.8	87.7
132.5°	78.6	78.6	75.8	74.9	74.9	74.9	75.8	74.9	76.7	78.6	78.6
135°	70.4	70.4	67.6	68.5	68.5	67.6	68.5	67.6	69.4	70.4	70.4
137.5°	64.0	64.0	62.1	62.1	62.1	61.2	62.1	62.1	63.0	64.9	65.8
140°	58.5	58.5	57.6	57.6	56.6	57.6	57.6	57.6	58.5	59.4	59.4
142.5°	55.7	54.8	53.9	53.0	53.9	53.9	53.9	53.0	53.9	55.7	55.7
145°	51.2	51.2	50.3	50.3	50.3	51.2	50.3	50.3	51.2	51.2	52.1
147.5°	48.4	48.4	47.5	48.4	48.4	48.4	48.4	47.5	48.4	48.4	49.3
150°	47.5	46.6	45.7	46.6	46.6	45.7	45.7	45.7	45.7	46.6	46.6
152.5°	44.8	44.8	43.9	44.8	43.9	43.9	43.9	43.9	43.9	44.8	45.7
155°	42.9	42.9	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
157.5°	41.1	42.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	42.0	42.0
160°	40.2	40.2	40.2	40.2	39.3	39.3	39.3	40.2	40.2	40.2	41.1
162.5°	39.3	39.3	39.3	39.3	38.4	38.4	38.4	38.4	39.3	39.3	40.2
165°	39.3	38.4	38.4	38.4	37.5	37.5	37.5	37.5	38.4	39.3	38.4
167.5°	37.5	37.5	37.5	37.5	37.5	36.5	36.5	37.5	37.5	37.5	38.4
170°	37.5	37.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	37.5
172.5°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	36.5	36.5	37.5	37.5
175°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	37.5	37.5	37.5	36.5
177.5°	37.5	37.5	37.5	37.5	36.5	37.5	37.5	37.5	37.5	37.5	37.5
180°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5

(END OF REPORT)