

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: P834048

Luminaire Tested: **TTN-D3-830-U-RW-CG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P834048  
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-CG-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

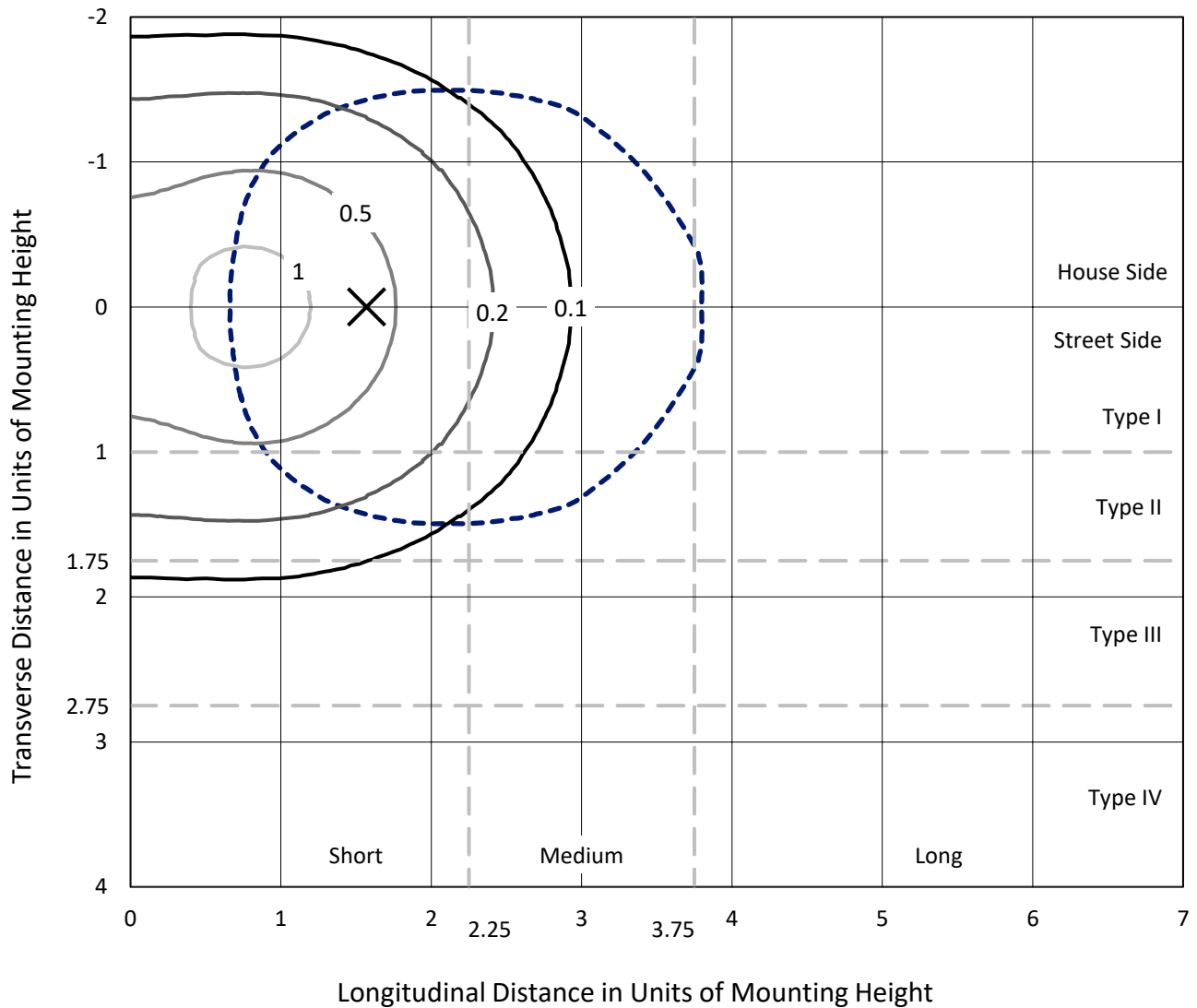
Lumens per Lamp: N/A  
Luminaire Lumens: 6505.7 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type II - Short  
BUG Rating: B3 - U4 - G3  
  
Input Watts (W): 66.2  
Input Voltage (V): NR  
Input Current (Ain): 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: P834048  
 CATALOG NUMBER: TTN-D3-830-U-RW-CG-UPL3

### Iso-Footcandle Lines of Horizontal Illumination

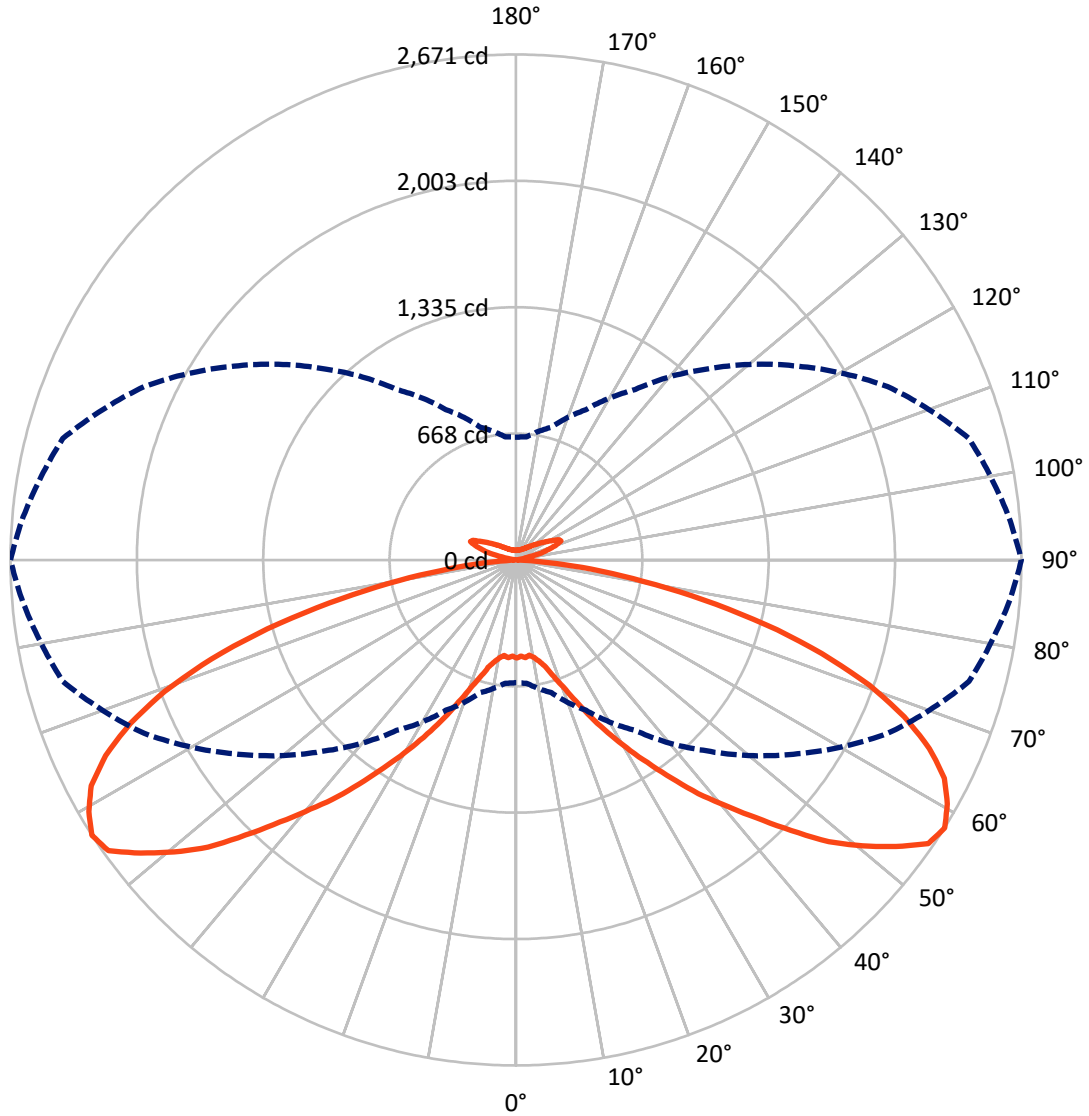
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P834048  
CATALOG NUMBER: TTN-D3-830-U-RW-CG-UPL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P834048  
 CATALOG NUMBER: TTN-D3-830-U-RW-CG-UPL3

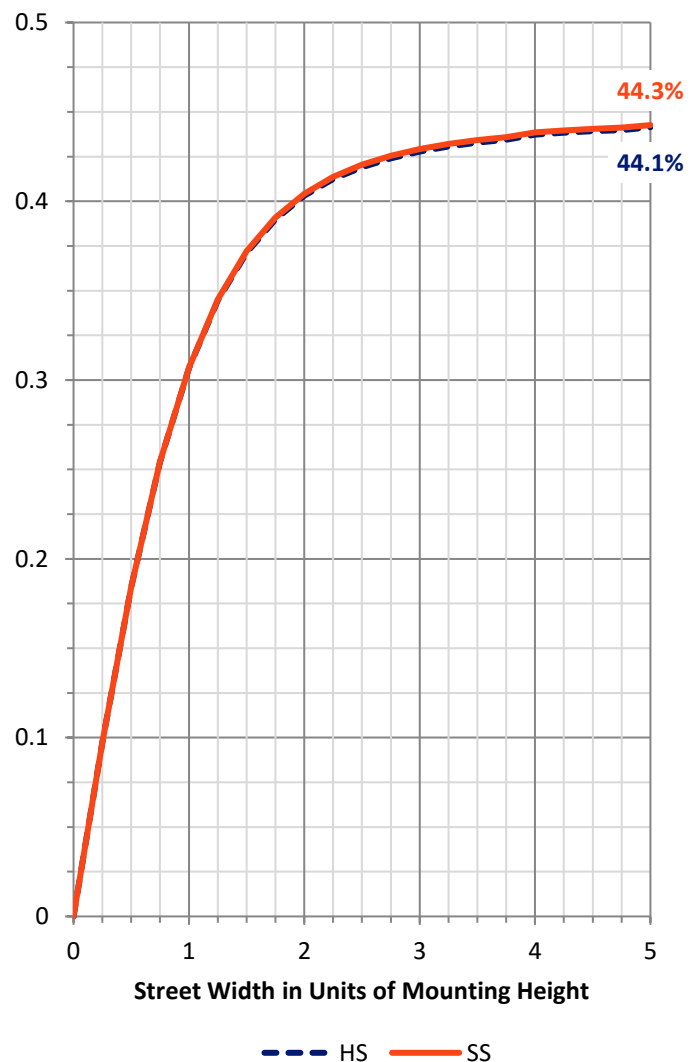
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2882.5	370.3	3252.8
	% Fixture	44.3	5.7	50.0
<b>Street Side</b>	Lumens	2882.5	370.3	3252.8
	% Fixture	44.3	5.7	50.0
<b>Total</b>	Lumens	5765.0	740.7	6505.7
	% Fixture	88.6	11.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	0.8
10°-20°	159.2	2.4
20°-30°	339.0	5.2
30°-40°	624.8	9.6
40°-50°	1005.9	15.5
50°-60°	1361.5	20.9
60°-70°	1323.8	20.3
70°-80°	770.2	11.8
80°-90°	131.2	2.0
90°-100°	16.5	0.3
100°-110°	168.0	2.6
110°-120°	245.6	3.8
120°-130°	142.5	2.2
130°-140°	75.5	1.2
140°-150°	44.9	0.7
150°-160°	27.6	0.4
160°-170°	15.1	0.2
170°-180°	4.9	0.1
0°-90°	5765.0	88.6
0°-180°	6505.7	100.0



REPORT NUMBER: P834048

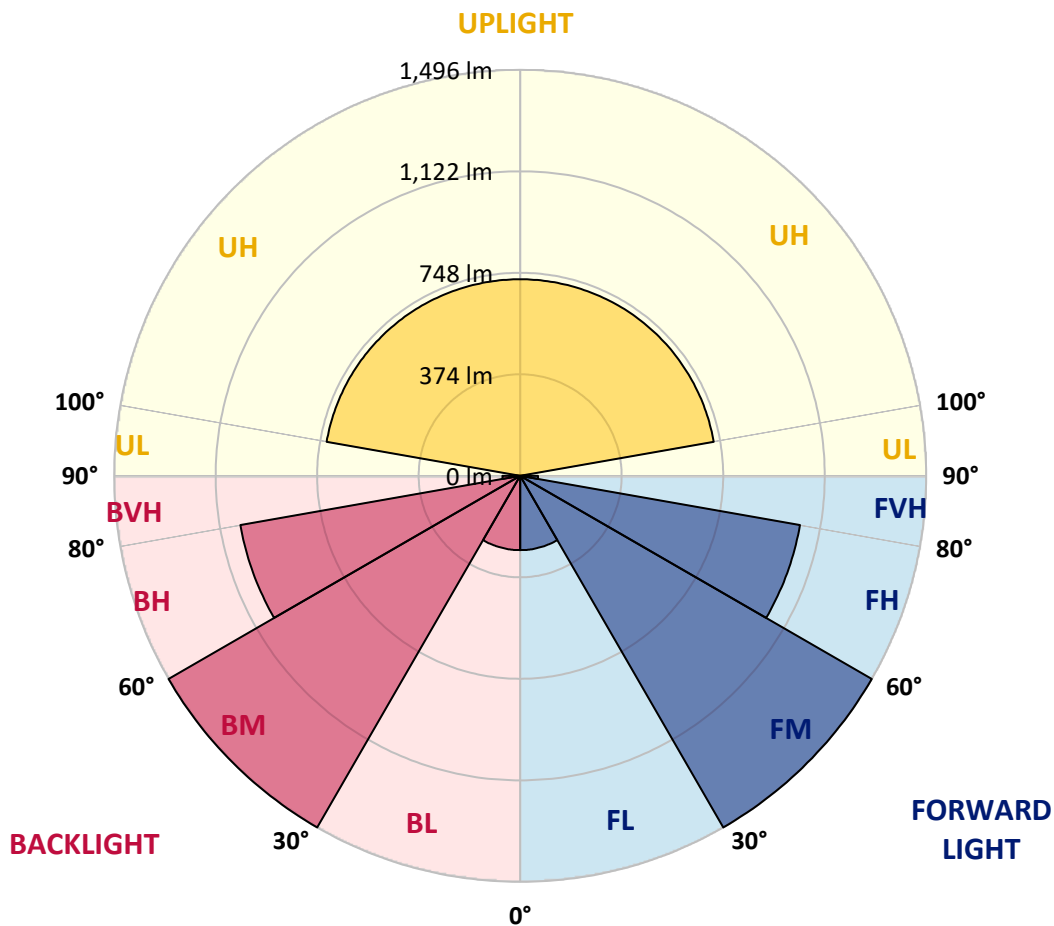
CATALOG NUMBER: TTN-D3-830-U-RW-CG-UPL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.8	4.2			
FM (30°-60°)	1496.1	23.0			
FH (60°-80°)	1047.0	16.1			G1/1800
FVH (80°-90°)	65.6	1.0			G1/100
BL (0°-30°)	273.8	4.2	B1/500		
BM (30°-60°)	1496.1	23.0	B2/2500		
BH (60°-80°)	1047.0	16.1	B3/2500		G3/2500
BVH (80°-90°)	65.6	1.0			G1/100
UL (90°-100°)	16.5	0.3		U2/50	
UH (100°-180°)	724.2	11.1		U4/1000	

**BUG Rating: B3-U4-G3**

Type II Short





REPORT NUMBER: P834048

CATALOG NUMBER: TTN-D3-830-U-RW-CG-UPL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6	518.6
2.5°	518.6	518.6	518.6	518.6	513.4	513.4	513.4	508.2	508.2	508.2	508.2
5°	518.6	518.6	518.6	523.8	523.8	523.8	518.6	518.6	518.6	518.6	518.6
7.5°	518.6	523.8	523.8	518.6	518.6	513.4	513.4	513.4	508.2	508.2	508.2
10°	518.6	518.6	518.6	518.6	513.4	513.4	518.6	518.6	523.8	523.8	523.8
12.5°	513.4	513.4	518.6	518.6	518.6	523.8	534.2	539.4	544.5	549.7	549.7
15°	518.6	518.6	523.8	529.0	534.2	544.5	560.1	575.7	586.0	591.2	586.0
17.5°	518.6	523.8	529.0	539.4	554.9	570.5	596.4	617.1	637.9	643.1	648.3
20°	529.0	529.0	534.2	554.9	580.8	606.8	643.1	679.4	705.3	715.7	715.7
22.5°	534.2	539.4	544.5	570.5	612.0	653.5	705.3	746.8	783.1	803.8	809.0
25°	549.7	549.7	560.1	596.4	648.3	710.5	777.9	840.2	886.8	912.8	917.9
27.5°	560.1	565.3	580.8	627.5	694.9	772.7	866.1	938.7	995.7	1026.9	1032.0
30°	570.5	575.7	606.8	658.6	741.6	835.0	943.9	1037.2	1109.8	1146.1	1151.3
32.5°	586.0	591.2	627.5	684.6	783.1	897.2	1021.7	1135.8	1239.5	1270.6	1275.8
35°	601.6	606.8	648.3	715.7	829.8	959.4	1104.6	1239.5	1363.9	1405.4	1415.8
37.5°	617.1	622.3	663.8	746.8	876.5	1026.9	1198.0	1358.8	1493.6	1550.7	1566.2
40°	632.7	637.9	684.6	777.9	923.1	1099.5	1296.5	1472.9	1628.4	1695.9	1706.2
42.5°	643.1	648.3	700.1	803.8	969.8	1166.9	1400.3	1597.3	1763.3	1851.4	1861.8
45°	658.6	663.8	720.9	840.2	1011.3	1244.7	1498.8	1737.4	1929.2	2027.8	2038.1
47.5°	669.0	674.2	736.4	860.9	1058.0	1317.3	1602.5	1861.8	2090.0	2193.7	2224.8
50°	674.2	679.4	746.8	881.6	1089.1	1369.1	1685.5	1986.3	2230.0	2359.7	2375.2
52.5°	674.2	684.6	752.0	897.2	1109.8	1415.8	1752.9	2090.0	2364.9	2510.1	2515.3
55°	669.0	674.2	746.8	892.0	1120.2	1436.6	1799.6	2152.2	2458.2	2598.2	2644.9
57.5°	648.3	653.5	726.1	876.5	1099.5	1426.2	1789.2	2167.8	2479.0	2613.8	2670.9
60°	617.1	627.5	694.9	840.2	1068.3	1389.9	1758.1	2136.7	2447.8	2613.8	2619.0
62.5°	580.8	586.0	653.5	793.5	1021.7	1332.8	1701.0	2074.4	2375.2	2546.4	2541.2
65°	529.0	534.2	591.2	736.4	938.7	1223.9	1587.0	1975.9	2235.2	2416.7	2401.2
67.5°	471.9	477.1	529.0	658.6	840.2	1104.6	1431.4	1810.0	2038.1	2224.8	2214.5
70°	409.7	409.7	456.4	565.3	736.4	969.8	1260.2	1592.1	1820.3	1975.9	1981.1
72.5°	337.1	337.1	378.6	471.9	617.1	814.2	1063.2	1358.8	1545.5	1680.3	1690.7
75°	264.5	259.3	295.6	373.4	487.5	648.3	840.2	1094.3	1239.5	1369.1	1363.9
77.5°	186.7	186.7	207.4	269.7	352.7	482.3	622.3	824.6	923.1	1032.0	1011.3
80°	119.3	119.3	129.7	176.3	233.4	321.5	409.7	560.1	627.5	710.5	684.6
82.5°	62.2	57.0	67.4	93.4	124.5	176.3	228.2	326.7	357.8	420.1	399.3
85°	20.7	20.7	20.7	31.1	46.7	67.4	88.2	140.0	145.2	186.7	171.1
87.5°	5.2	0.0	0.0	5.2	5.2	5.2	5.2	15.6	15.6	31.1	20.7
90°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



REPORT NUMBER: P834048  
 CATALOG NUMBER: TTN-D3-830-U-RW-CG-UPL3

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)