

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: P834056

Luminaire Tested: **TTN-D3-830-U-WQ-SG-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P834056  
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-WQ-SG-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

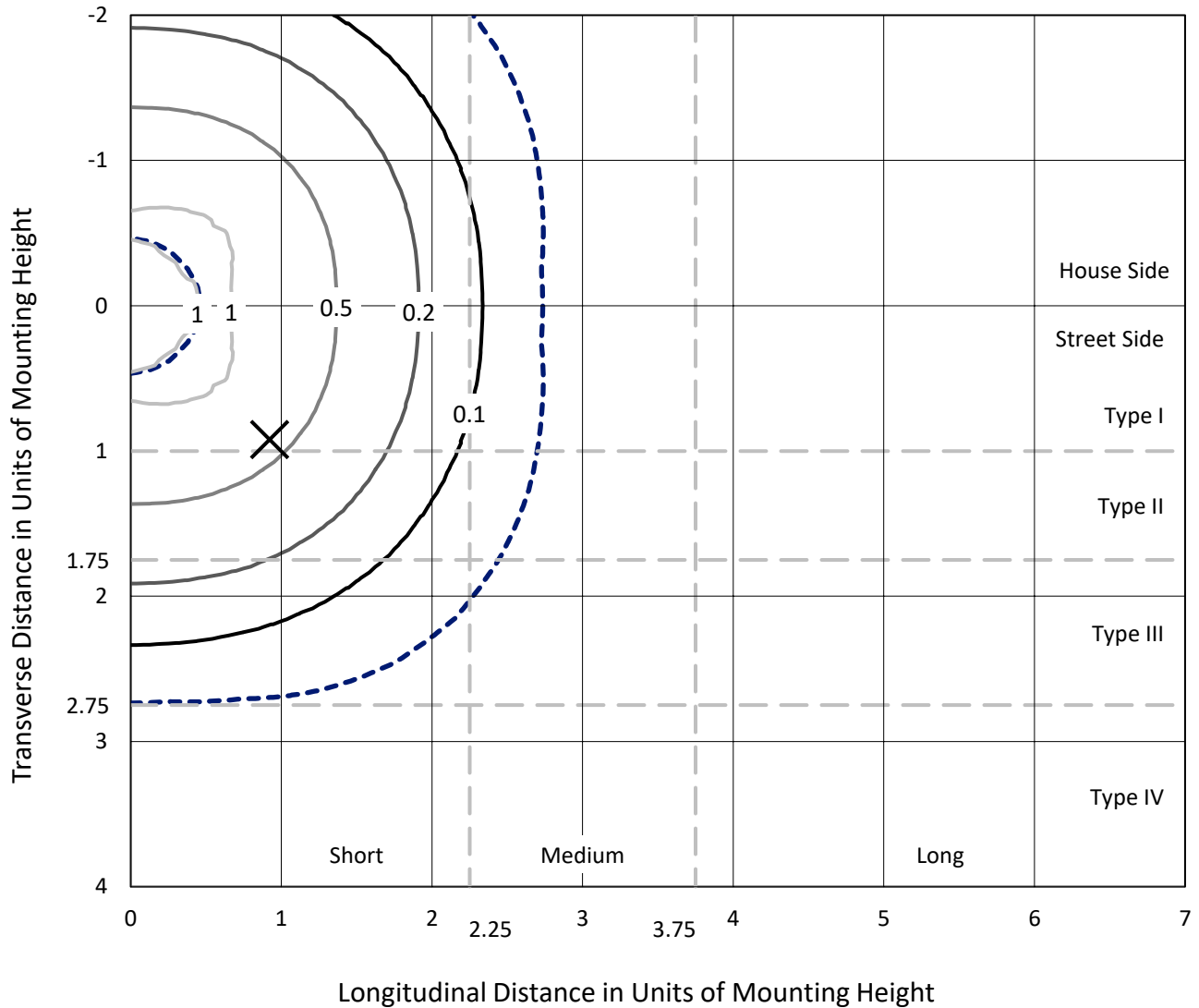
Lumens per Lamp: N/A  
Luminaire Lumens: 6402.8 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U4 - G1  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

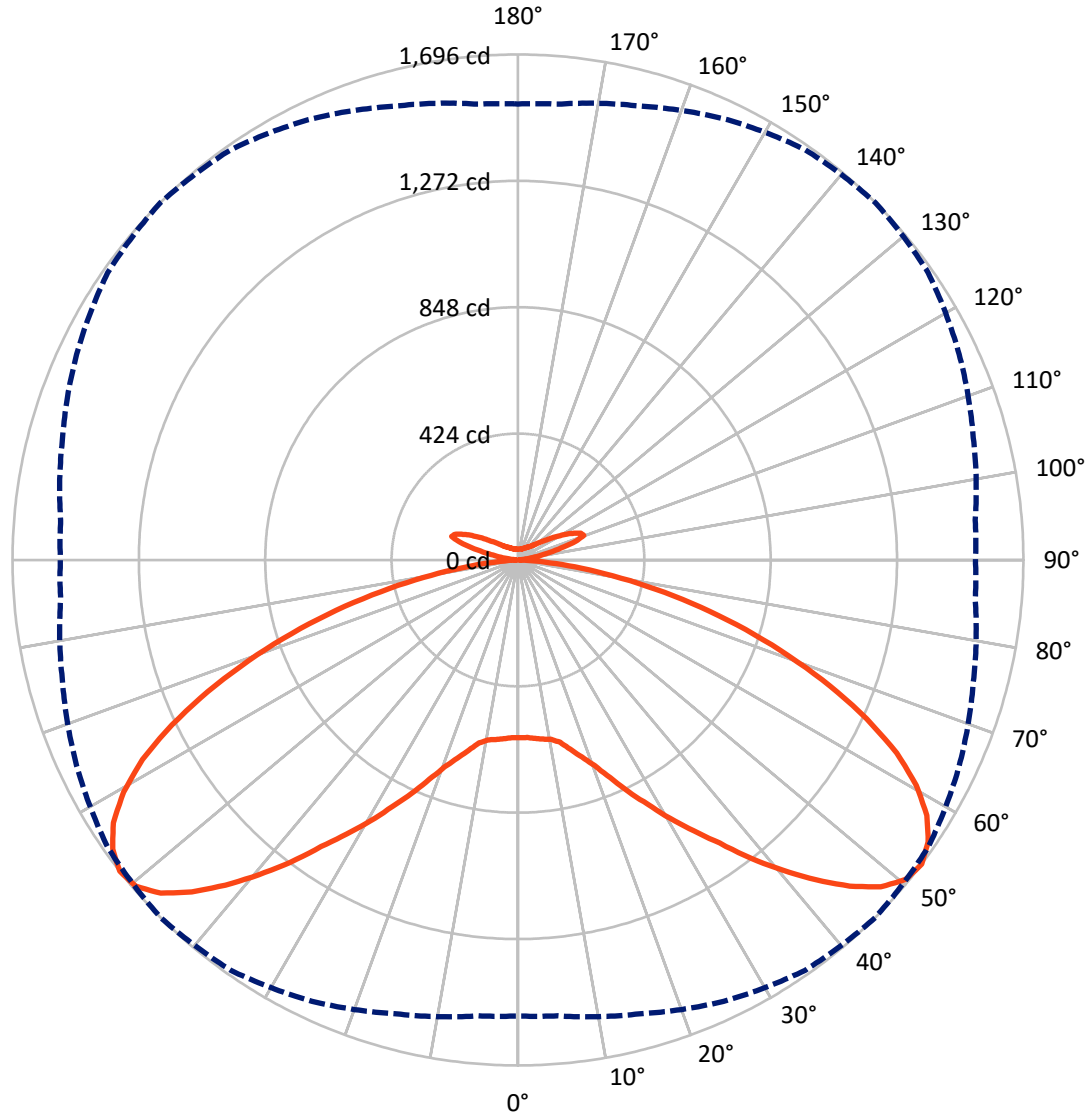
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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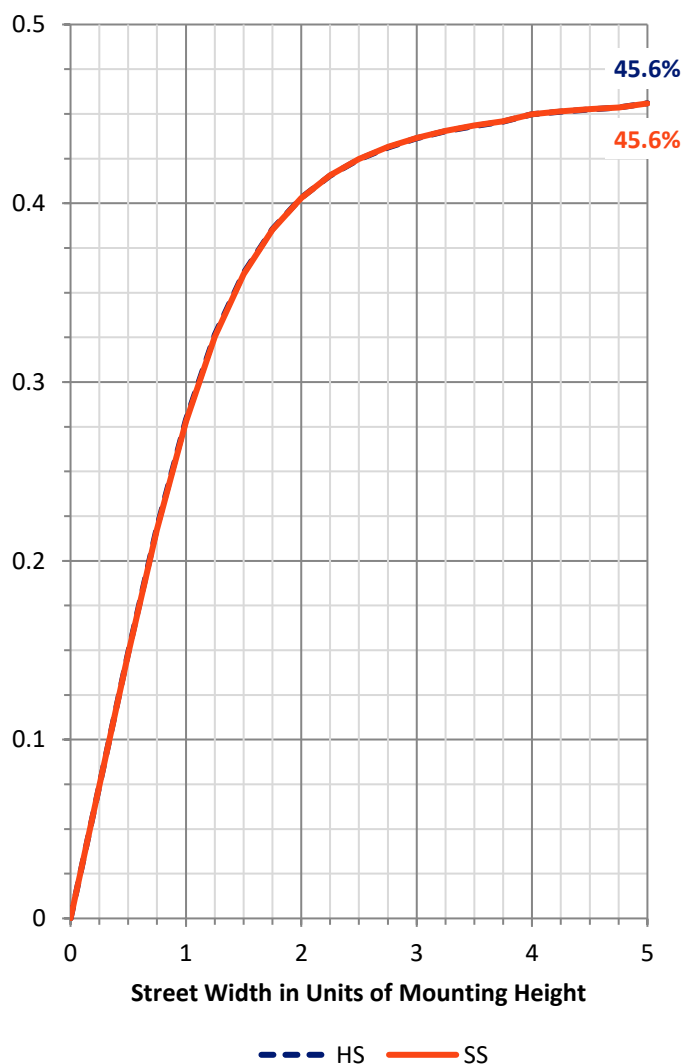
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2934.4	267.0	3201.4
	% Fixture	45.8	4.2	50.0
<b>Street Side</b>	Lumens	2934.4	267.0	3201.4
	% Fixture	45.8	4.2	50.0
<b>Total</b>	Lumens	5868.7	534.0	6402.8
	% Fixture	91.7	8.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	0.9
10°-20°	189.4	3.0
20°-30°	399.6	6.2
30°-40°	730.0	11.4
40°-50°	1162.2	18.2
50°-60°	1405.3	21.9
60°-70°	1181.6	18.5
70°-80°	626.3	9.8
80°-90°	116.6	1.8
90°-100°	11.9	0.2
100°-110°	121.1	1.9
110°-120°	177.1	2.8
120°-130°	102.8	1.6
130°-140°	54.4	0.9
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°	5868.7	91.7
0°-180°	6402.8	100.0

**Coefficient of Utilization**

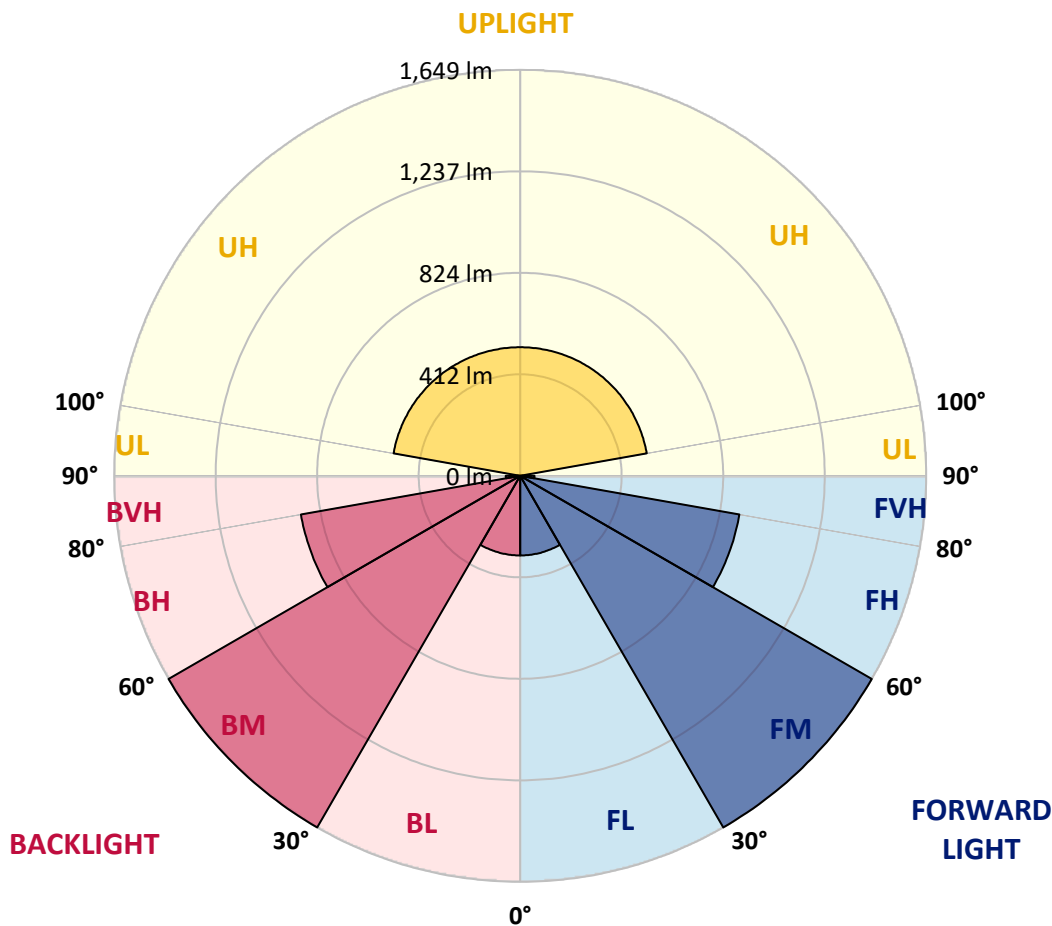


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.3	5.0			
FM (30°-60°)	1648.8	25.8			
FH (60°-80°)	904.0	14.1			G1/1800
FVH (80°-90°)	58.3	0.9			G1/100
BL (0°-30°)	323.3	5.0	B1/500		
BM (30°-60°)	1648.8	25.8	B2/2500		
BH (60°-80°)	904.0	14.1	B2/1000		G1/1800
BVH (80°-90°)	58.3	0.9			G1/100
UL (90°-100°)	11.9	0.2		U2/50	
UH (100°-180°)	522.1	8.2		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°	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6
2.5°	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6	596.6
5°	601.8	601.8	596.6	601.8	601.8	601.8	601.8	601.8	601.8	601.8	601.8
7.5°	601.8	601.8	601.8	607.0	607.0	607.0	607.0	601.8	601.8	601.8	601.8
10°	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1	612.1
12.5°	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7	627.7
15°	653.6	653.6	653.6	653.6	658.8	658.8	658.8	653.6	653.6	653.6	653.6
17.5°	684.8	684.8	690.0	690.0	695.2	695.2	695.2	690.0	684.8	690.0	684.8
20°	731.5	731.5	731.5	736.7	741.8	736.7	741.8	731.5	731.5	731.5	731.5
22.5°	783.3	783.3	783.3	788.5	793.7	793.7	793.7	783.3	783.3	783.3	783.3
25°	845.6	845.6	845.6	850.8	856.0	861.2	861.2	850.8	845.6	845.6	840.4
27.5°	907.8	907.8	918.2	923.4	928.6	928.6	928.6	918.2	913.0	913.0	913.0
30°	980.5	980.5	990.8	996.0	1006.4	1006.4	1006.4	990.8	985.7	980.5	980.5
32.5°	1047.9	1053.1	1063.5	1073.9	1084.2	1084.2	1089.4	1068.7	1058.3	1053.1	1053.1
35°	1120.5	1125.7	1136.1	1151.7	1162.0	1167.2	1172.4	1151.7	1136.1	1130.9	1130.9
37.5°	1203.5	1208.7	1224.3	1239.9	1260.6	1271.0	1276.2	1245.0	1219.1	1208.7	1208.7
40°	1296.9	1302.1	1317.7	1338.4	1359.2	1369.5	1374.7	1343.6	1317.7	1307.3	1302.1
42.5°	1374.7	1385.1	1400.7	1431.8	1452.6	1468.1	1468.1	1431.8	1400.7	1385.1	1385.1
45°	1447.4	1457.7	1483.7	1514.8	1545.9	1561.5	1556.3	1520.0	1483.7	1462.9	1457.7
47.5°	1504.4	1514.8	1545.9	1582.2	1623.7	1639.3	1634.1	1592.6	1545.9	1520.0	1514.8
50°	1535.6	1540.7	1577.1	1628.9	1670.4	1686.0	1675.6	1634.1	1582.2	1545.9	1540.7
52.5°	1530.4	1535.6	1577.1	1634.1	1680.8	1696.4	1680.8	1634.1	1582.2	1540.7	1535.6
55°	1499.2	1504.4	1545.9	1608.2	1654.9	1670.4	1654.9	1608.2	1551.1	1509.6	1504.4
57.5°	1442.2	1447.4	1488.9	1551.1	1603.0	1618.6	1597.8	1545.9	1488.9	1447.4	1447.4
60°	1359.2	1364.4	1405.9	1473.3	1520.0	1535.6	1509.6	1468.1	1411.1	1364.4	1359.2
62.5°	1250.2	1250.2	1296.9	1364.4	1405.9	1426.6	1400.7	1354.0	1302.1	1250.2	1255.4
65°	1120.5	1115.4	1162.0	1224.3	1271.0	1286.5	1260.6	1219.1	1167.2	1120.5	1120.5
67.5°	985.7	985.7	1022.0	1073.9	1115.4	1130.9	1105.0	1068.7	1027.2	985.7	985.7
70°	840.4	840.4	866.3	918.2	954.5	964.9	949.3	913.0	876.7	840.4	840.4
72.5°	695.2	690.0	715.9	757.4	788.5	798.9	783.3	762.6	721.1	695.2	695.2
75°	549.9	544.7	560.3	596.6	622.5	632.9	617.3	601.8	570.6	549.9	549.9
77.5°	409.8	404.6	420.2	451.3	466.9	472.1	461.7	451.3	425.4	409.8	409.8
80°	280.1	274.9	285.3	306.1	321.6	321.6	316.4	311.3	290.5	280.1	285.3
82.5°	166.0	160.8	171.2	186.8	197.1	191.9	191.9	186.8	171.2	166.0	166.0
85°	72.6	67.4	72.6	83.0	93.4	88.2	88.2	88.2	77.8	72.6	72.6
87.5°	10.4	10.4	10.4	15.6	20.8	15.6	15.6	15.6	10.4	10.4	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



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**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)