

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: P834057

Luminaire Tested: **TTN-D3-830-U-WQ-SG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P834057  
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-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

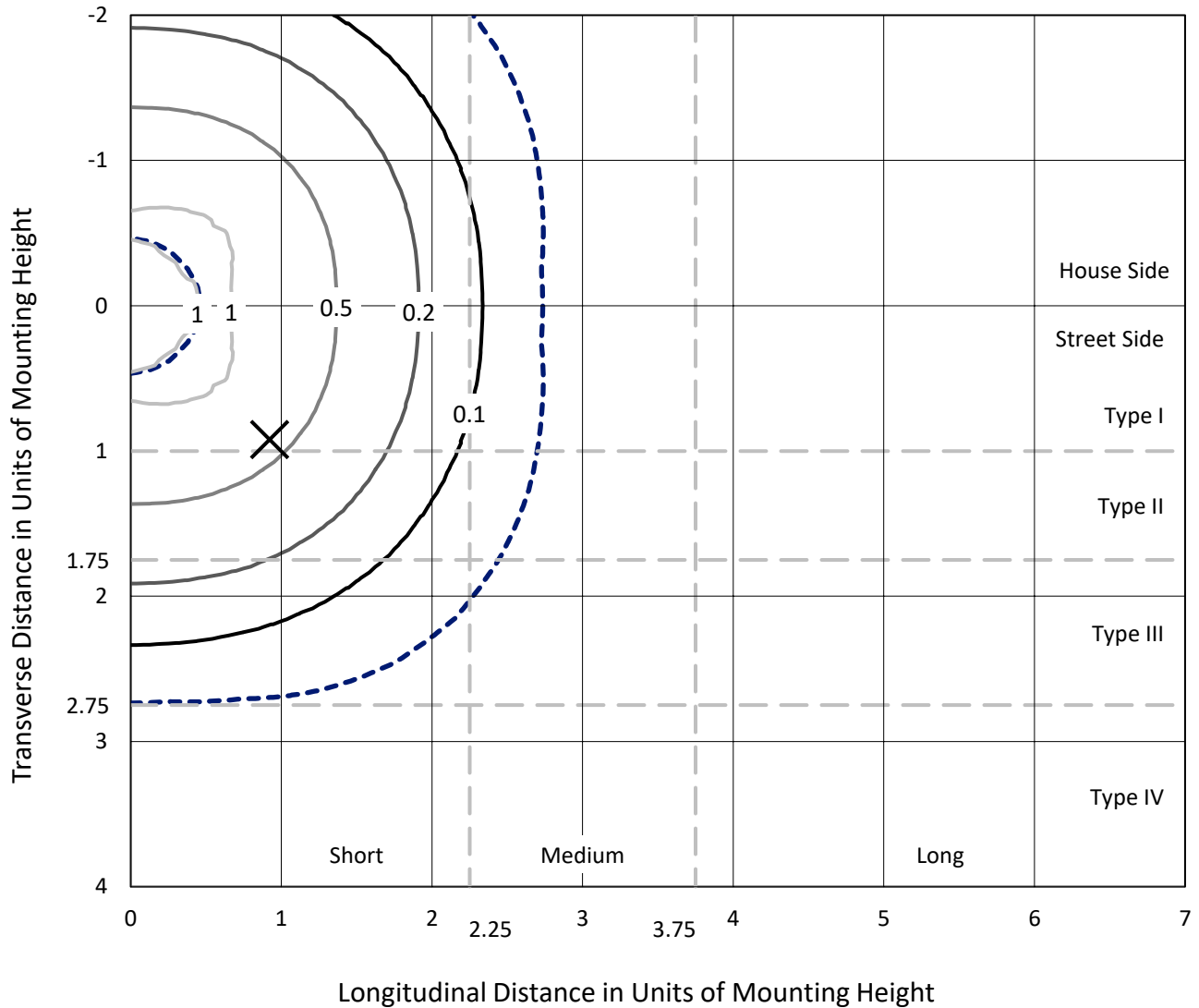
Lumens per Lamp: N/A  
Luminaire Lumens: 6609.7 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U4 - G1  
  
Input Watts (W): 66.2  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

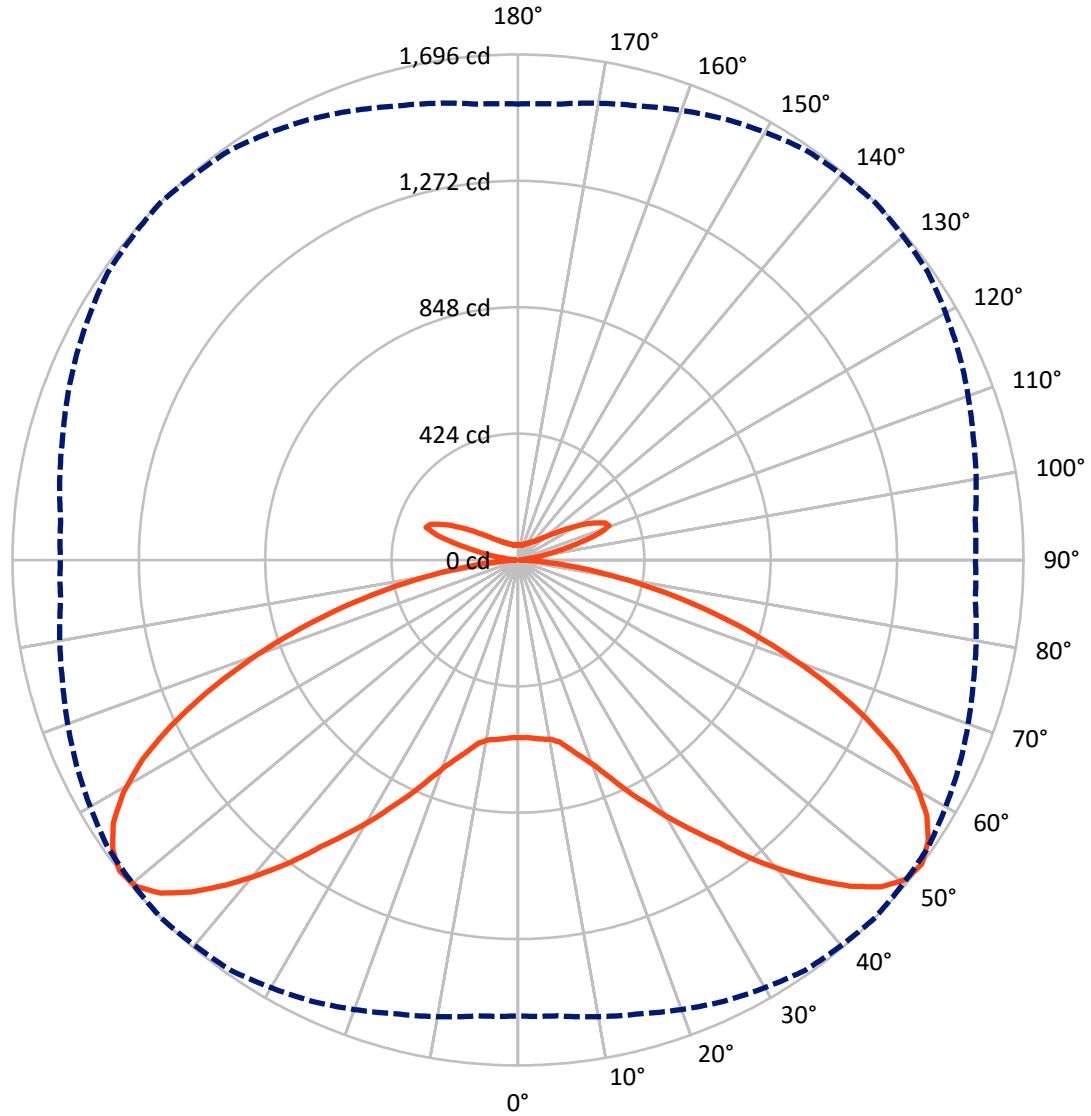
✕ Max cd  
 - - - 1/2 Max cd



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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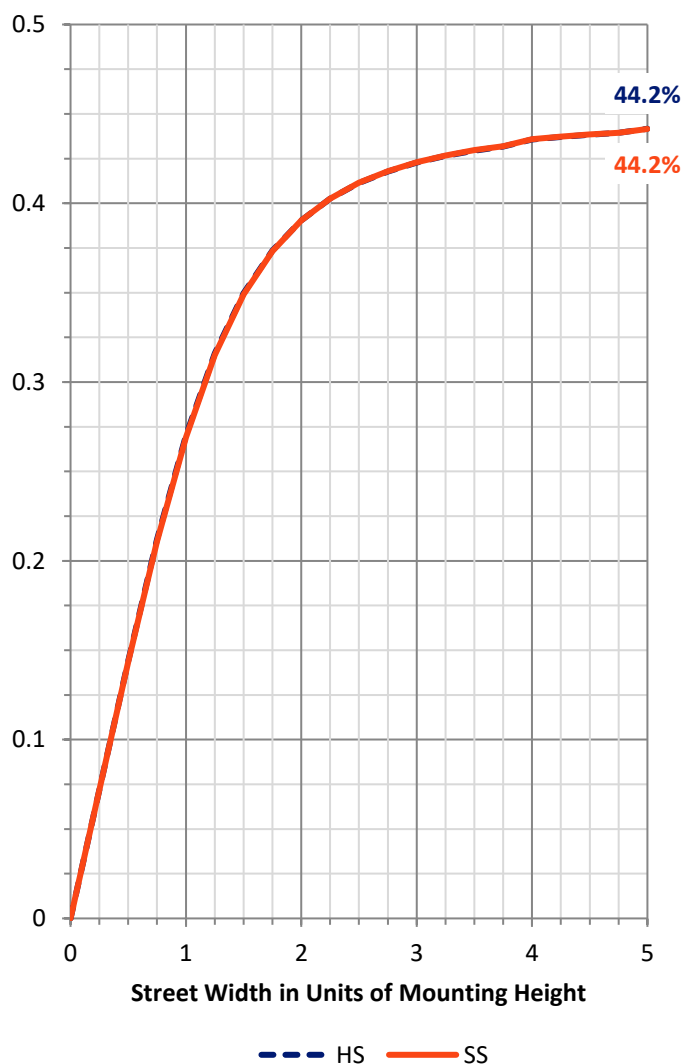
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2934.5	370.3	3304.8
	% Fixture	44.4	5.6	50.0
<b>Street Side</b>	Lumens	2934.5	370.3	3304.8
	% Fixture	44.4	5.6	50.0
<b>Total</b>	Lumens	5869.0	740.7	6609.7
	% Fixture	88.8	11.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	0.9
10°-20°	189.4	2.9
20°-30°	399.6	6.0
30°-40°	730.0	11.0
40°-50°	1162.2	17.6
50°-60°	1405.3	21.3
60°-70°	1181.6	17.9
70°-80°	626.3	9.5
80°-90°	116.9	1.8
90°-100°	16.5	0.3
100°-110°	168.0	2.5
110°-120°	245.6	3.7
120°-130°	142.5	2.2
130°-140°	75.5	1.1
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°	5869.0	88.8
0°-180°	6609.7	100.0

**Coefficient of Utilization**

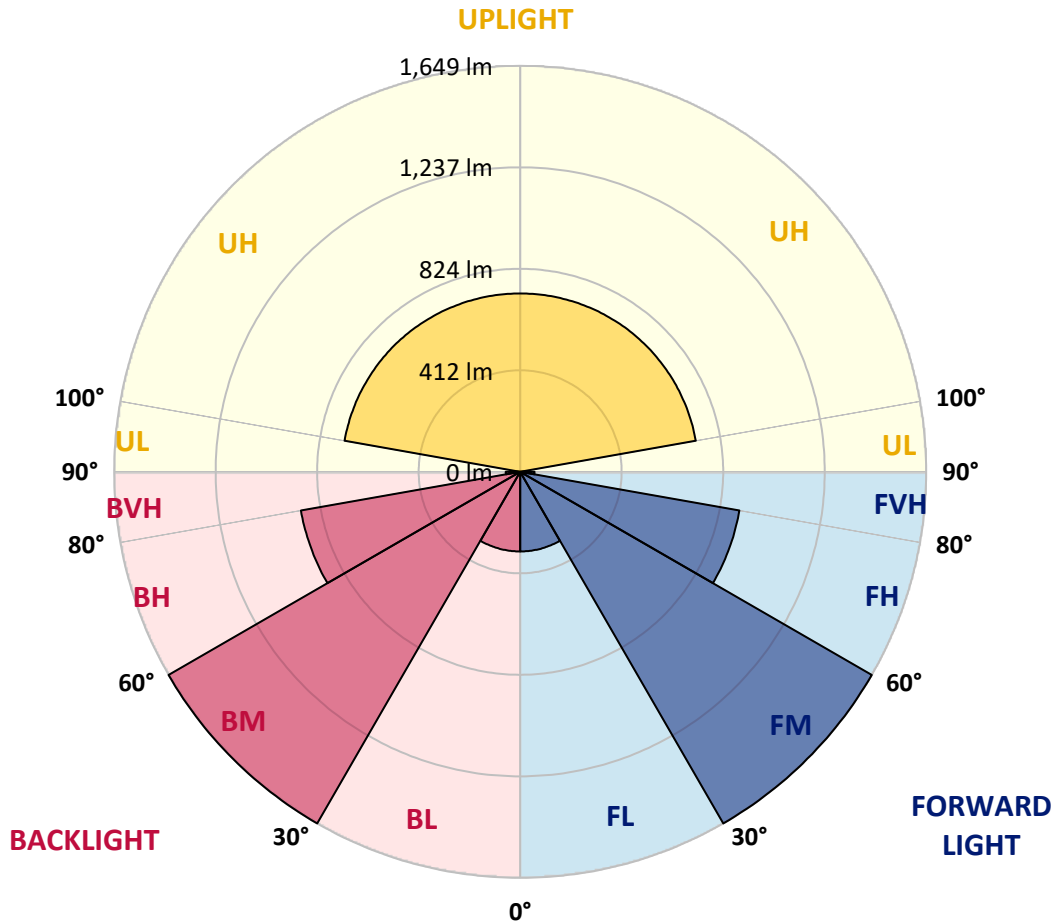


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.3	4.9			
FM (30°-60°)	1648.8	24.9			
FH (60°-80°)	904.0	13.7			G1/1800
FVH (80°-90°)	58.4	0.9			G1/100
BL (0°-30°)	323.3	4.9	B1/500		
BM (30°-60°)	1648.8	24.9	B2/2500		
BH (60°-80°)	904.0	13.7	B2/1000		G1/1800
BVH (80°-90°)	58.4	0.9			G1/100
UL (90°-100°)	16.5	0.3		U2/50	
UH (100°-180°)	724.2	11.0		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°	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



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**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)