

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: P833907

Luminaire Tested: **TTN-D3-735-U-WQ-SG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833907  
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-D3-735-U-WQ-SG-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

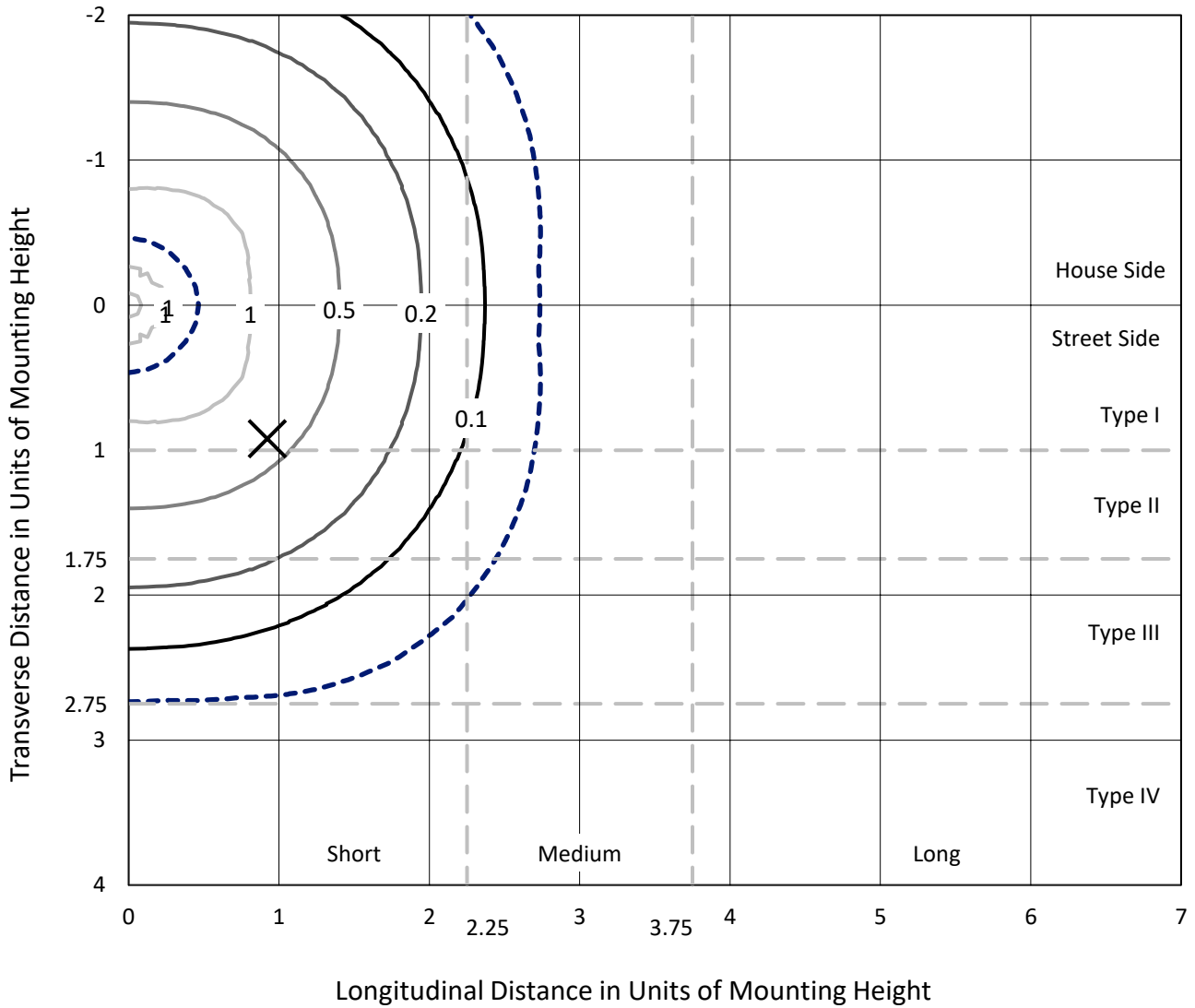
Lumens per Lamp: N/A  
Luminaire Lumens: 6961.7 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U4 - G1  
  
Input Watts (W): 66.2  
Input Voltage (V): NR  
Input Current (Ain): 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

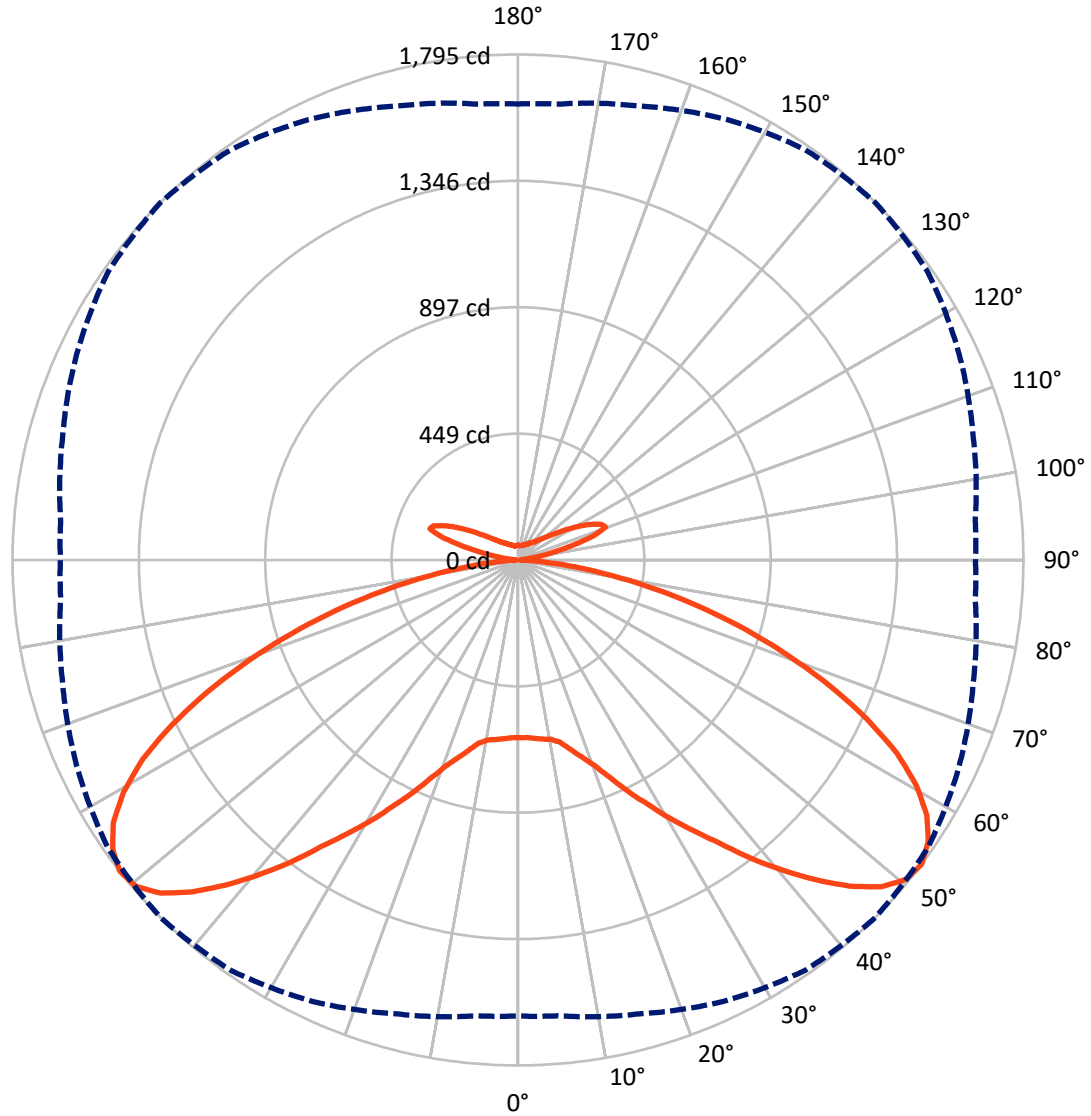
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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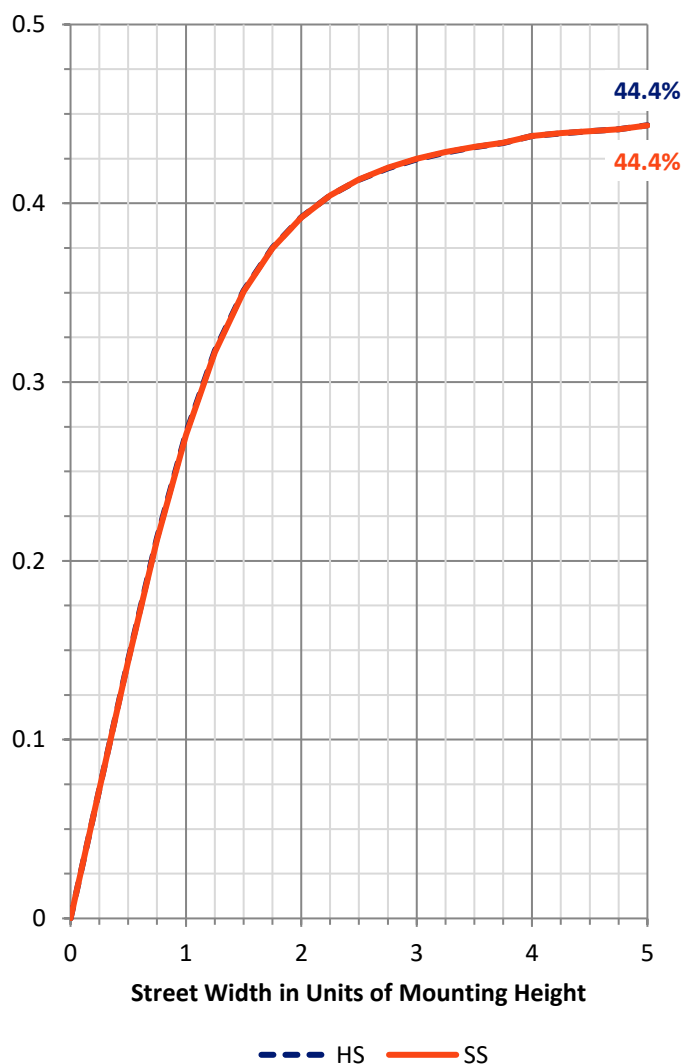
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3104.5	376.3	3480.8
	% Fixture	44.6	5.4	50.0
<b>Street Side</b>	Lumens	3104.5	376.3	3480.8
	% Fixture	44.6	5.4	50.0
<b>Total</b>	Lumens	6209.0	752.7	6961.7
	% Fixture	89.2	10.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	0.9
10°-20°	200.3	2.9
20°-30°	422.8	6.1
30°-40°	772.3	11.1
40°-50°	1229.5	17.7
50°-60°	1486.7	21.4
60°-70°	1250.1	18.0
70°-80°	662.6	9.5
80°-90°	123.6	1.8
90°-100°	16.8	0.2
100°-110°	170.7	2.5
110°-120°	249.6	3.6
120°-130°	144.9	2.1
130°-140°	76.7	1.1
140°-150°	45.6	0.7
150°-160°	28.1	0.4
160°-170°	15.3	0.2
170°-180°	5.0	0.1
0°-90°	6209.0	89.2
0°-180°	6961.7	100.0

**Coefficient of Utilization**

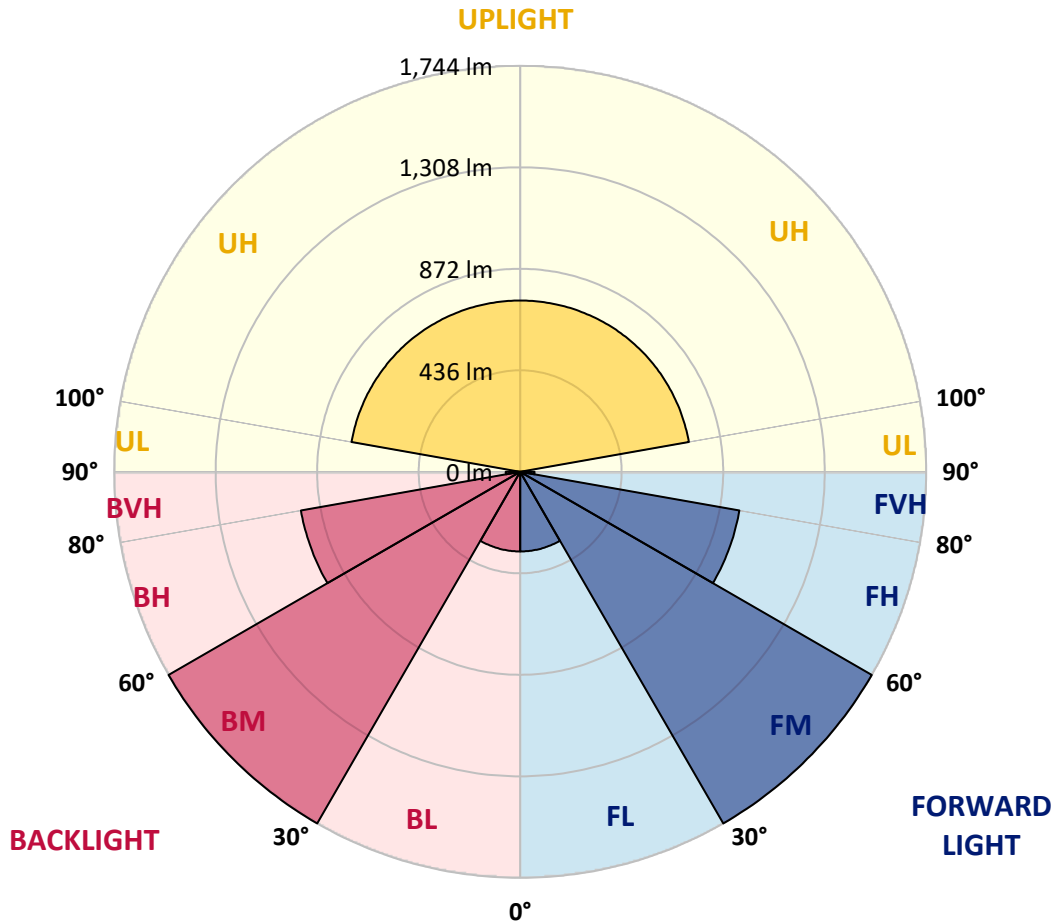


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.0	4.9			
FM (30°-60°)	1744.3	25.1			
FH (60°-80°)	956.4	13.7			G1/1800
FVH (80°-90°)	61.8	0.9			G1/100
BL (0°-30°)	342.0	4.9	B1/500		
BM (30°-60°)	1744.3	25.1	B2/2500		
BH (60°-80°)	956.4	13.7	B2/1000		G1/1800
BVH (80°-90°)	61.8	0.9			G1/100
UL (90°-100°)	16.8	0.2		U2/50	
UH (100°-180°)	735.8	10.6		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°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
2.5°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
5°	636.6	636.6	631.2	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
7.5°	636.6	636.6	636.6	642.1	642.1	642.1	642.1	636.6	636.6	636.6	636.6
10°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
12.5°	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1
15°	691.5	691.5	691.5	691.5	697.0	697.0	697.0	691.5	691.5	691.5	691.5
17.5°	724.5	724.5	729.9	729.9	735.4	735.4	735.4	729.9	724.5	729.9	724.5
20°	773.8	773.8	773.8	779.3	784.8	779.3	784.8	773.8	773.8	773.8	773.8
22.5°	828.7	828.7	828.7	834.2	839.7	839.7	839.7	828.7	828.7	828.7	828.7
25°	894.6	894.6	894.6	900.1	905.6	911.1	911.1	900.1	894.6	894.6	889.1
27.5°	960.4	960.4	971.4	976.9	982.4	982.4	982.4	971.4	965.9	965.9	965.9
30°	1037.3	1037.3	1048.3	1053.7	1064.7	1064.7	1064.7	1048.3	1042.8	1037.3	1037.3
32.5°	1108.6	1114.1	1125.1	1136.1	1147.0	1147.0	1152.5	1130.6	1119.6	1114.1	1114.1
35°	1185.5	1191.0	1201.9	1218.4	1229.4	1234.9	1240.3	1218.4	1201.9	1196.4	1196.4
37.5°	1273.3	1278.8	1295.2	1311.7	1333.6	1344.6	1350.1	1317.2	1289.7	1278.8	1278.8
40°	1372.1	1377.6	1394.0	1416.0	1437.9	1448.9	1454.4	1421.5	1394.0	1383.0	1377.6
42.5°	1454.4	1465.4	1481.8	1514.8	1536.7	1553.2	1553.2	1514.8	1481.8	1465.4	1465.4
45°	1531.2	1542.2	1569.6	1602.6	1635.5	1652.0	1646.5	1608.1	1569.6	1547.7	1542.2
47.5°	1591.6	1602.6	1635.5	1673.9	1717.8	1734.3	1728.8	1684.9	1635.5	1608.1	1602.6
50°	1624.5	1630.0	1668.4	1723.3	1767.2	1783.7	1772.7	1728.8	1673.9	1635.5	1630.0
52.5°	1619.0	1624.5	1668.4	1728.8	1778.2	1794.7	1778.2	1728.8	1673.9	1630.0	1624.5
55°	1586.1	1591.6	1635.5	1701.4	1750.8	1767.2	1750.8	1701.4	1641.0	1597.1	1591.6
57.5°	1525.7	1531.2	1575.1	1641.0	1695.9	1712.3	1690.4	1635.5	1575.1	1531.2	1531.2
60°	1437.9	1443.4	1487.3	1558.7	1608.1	1624.5	1597.1	1553.2	1492.8	1443.4	1437.9
62.5°	1322.7	1322.7	1372.1	1443.4	1487.3	1509.3	1481.8	1432.4	1377.6	1322.7	1328.2
65°	1185.5	1180.0	1229.4	1295.2	1344.6	1361.1	1333.6	1289.7	1234.9	1185.5	1185.5
67.5°	1042.8	1042.8	1081.2	1136.1	1180.0	1196.4	1169.0	1130.6	1086.7	1042.8	1042.8
70°	889.1	889.1	916.5	971.4	1009.8	1020.8	1004.4	965.9	927.5	889.1	889.1
72.5°	735.4	729.9	757.4	801.3	834.2	845.2	828.7	806.8	762.9	735.4	735.4
75°	581.8	576.3	592.7	631.2	658.6	669.6	653.1	636.6	603.7	581.8	581.8
77.5°	433.6	428.1	444.5	477.5	493.9	499.4	488.5	477.5	450.0	433.6	433.6
80°	296.4	290.9	301.9	323.8	340.3	340.3	334.8	329.3	307.3	296.4	301.9
82.5°	175.6	170.1	181.1	197.6	208.6	203.1	203.1	197.6	181.1	175.6	175.6
85°	76.8	71.3	76.8	87.8	98.8	93.3	93.3	93.3	82.3	76.8	76.8
87.5°	11.0	11.0	11.0	16.5	22.0	16.5	16.5	16.5	11.0	11.0	11.0
90°	6.4	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	6.4
92.5°	6.4	6.4	6.4	9.0	10.3	9.0	10.3	7.7	7.7	6.4	6.4
95°	7.7	7.7	9.0	11.6	14.2	15.5	15.5	9.0	9.0	7.7	7.7
97.5°	10.3	11.6	11.6	14.2	23.2	42.5	25.8	12.9	12.9	11.6	10.3
100°	16.7	18.0	18.0	32.2	68.2	91.4	65.7	33.5	24.5	18.0	18.0
102.5°	54.1	56.7	69.5	104.3	154.5	140.4	118.5	112.0	77.3	61.8	59.2
105°	137.8	136.5	146.8	173.8	216.3	212.5	195.7	177.7	153.2	141.6	141.6
107.5°	181.6	181.6	190.6	213.8	245.9	287.1	291.0	230.5	202.2	189.3	188.0
110°	204.7	204.7	212.5	231.8	274.3	332.2	329.6	284.6	249.8	233.1	230.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.9	211.2	221.5	251.1	297.5	323.2	311.6	293.6	278.1	265.3	262.7
115°	217.6	217.6	229.2	257.5	283.3	293.6	280.7	266.5	256.2	251.1	253.7
117.5°	215.0	218.9	221.5	236.9	253.7	261.4	255.0	235.6	227.9	225.3	221.5
120°	199.6	199.6	202.2	209.9	218.9	222.8	220.2	207.3	200.9	199.6	197.0
122.5°	177.7	179.0	177.7	181.6	188.0	191.9	189.3	179.0	176.4	176.4	173.8
125°	155.8	155.8	154.5	157.1	161.0	159.7	161.0	155.8	154.5	154.5	153.2
127.5°	140.4	139.1	136.5	137.8	139.1	139.1	140.4	135.2	136.5	137.8	136.5
130°	124.9	124.9	122.3	122.3	122.3	119.8	122.3	119.8	121.0	122.3	123.6
132.5°	110.7	110.7	106.9	105.6	105.6	105.6	106.9	105.6	108.2	110.7	110.7
135°	99.2	99.2	95.3	96.6	96.6	95.3	96.6	95.3	97.9	99.2	99.2
137.5°	90.1	90.1	87.6	87.6	87.6	86.3	87.6	87.6	88.8	91.4	92.7
140°	82.4	82.4	81.1	81.1	79.8	81.1	81.1	81.1	82.4	83.7	83.7
142.5°	78.5	77.3	76.0	74.7	76.0	76.0	76.0	74.7	76.0	78.5	78.5
145°	72.1	72.1	70.8	70.8	70.8	72.1	70.8	70.8	72.1	72.1	73.4
147.5°	68.2	68.2	67.0	68.2	68.2	68.2	68.2	67.0	68.2	68.2	69.5
150°	67.0	65.7	64.4	65.7	65.7	64.4	64.4	64.4	64.4	65.7	65.7
152.5°	63.1	63.1	61.8	63.1	61.8	61.8	61.8	61.8	61.8	63.1	64.4
155°	60.5	60.5	59.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
157.5°	57.9	59.2	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.2	59.2
160°	56.7	56.7	56.7	56.7	55.4	55.4	55.4	56.7	56.7	56.7	57.9
162.5°	55.4	55.4	55.4	55.4	54.1	54.1	54.1	54.1	55.4	55.4	56.7
165°	55.4	54.1	54.1	54.1	52.8	52.8	52.8	52.8	54.1	55.4	54.1
167.5°	52.8	52.8	52.8	52.8	52.8	51.5	51.5	52.8	52.8	52.8	54.1
170°	52.8	52.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.8
172.5°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	51.5	51.5	52.8	52.8
175°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	52.8	52.8	52.8	51.5
177.5°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8	52.8	52.8	52.8
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

(END OF REPORT)