

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: P833931

Luminaire Tested: **TTN-D3-740-U-RW-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833931  
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-D3-740-U-RW-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

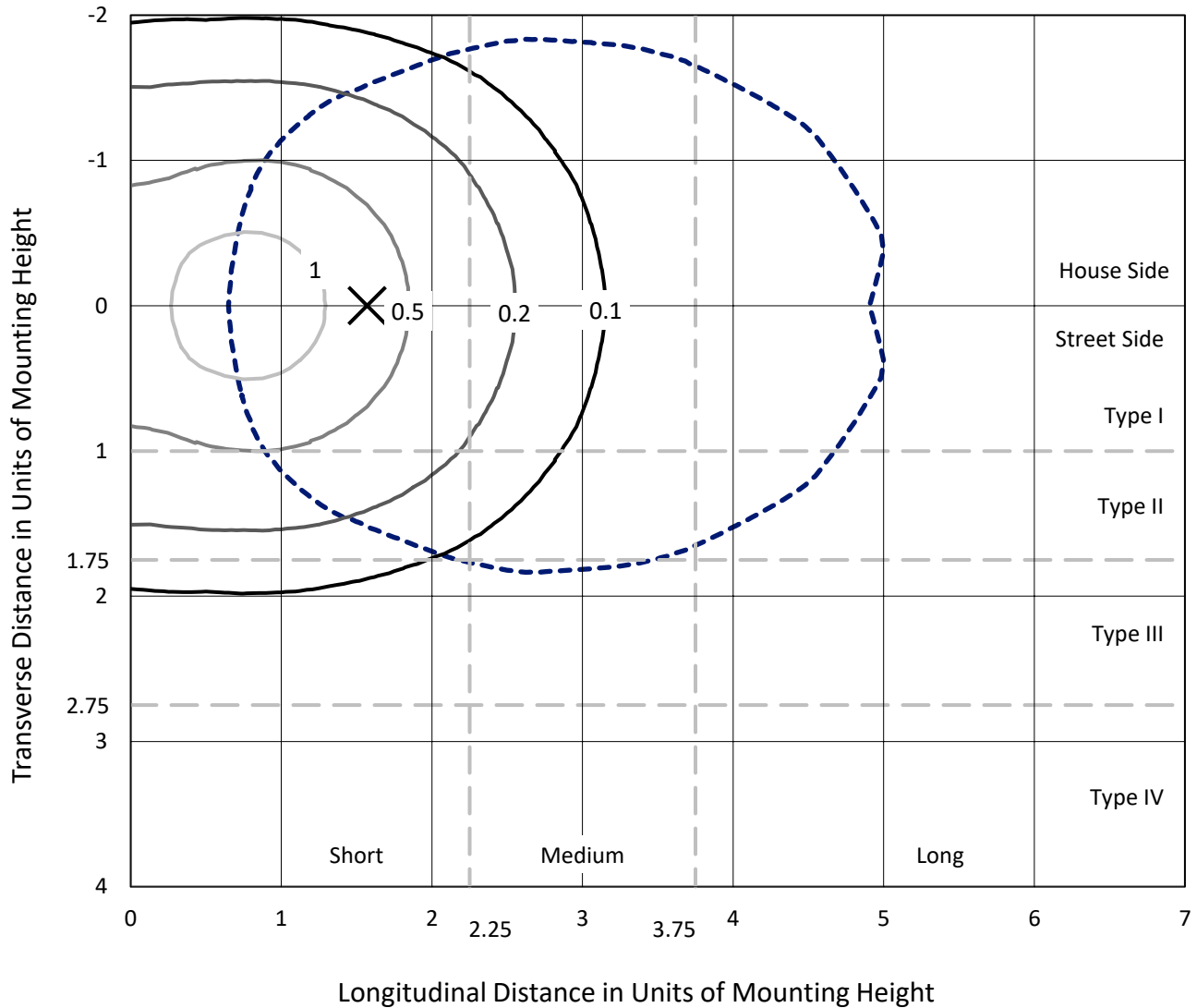
Lumens per Lamp: N/A  
Luminaire Lumens: 7673.6 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type II - Short  
BUG Rating: B3 - U4 - G3  
  
Input Watts (W): 66.2  
Input Voltage (V): NR  
Input Current (Ain): 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

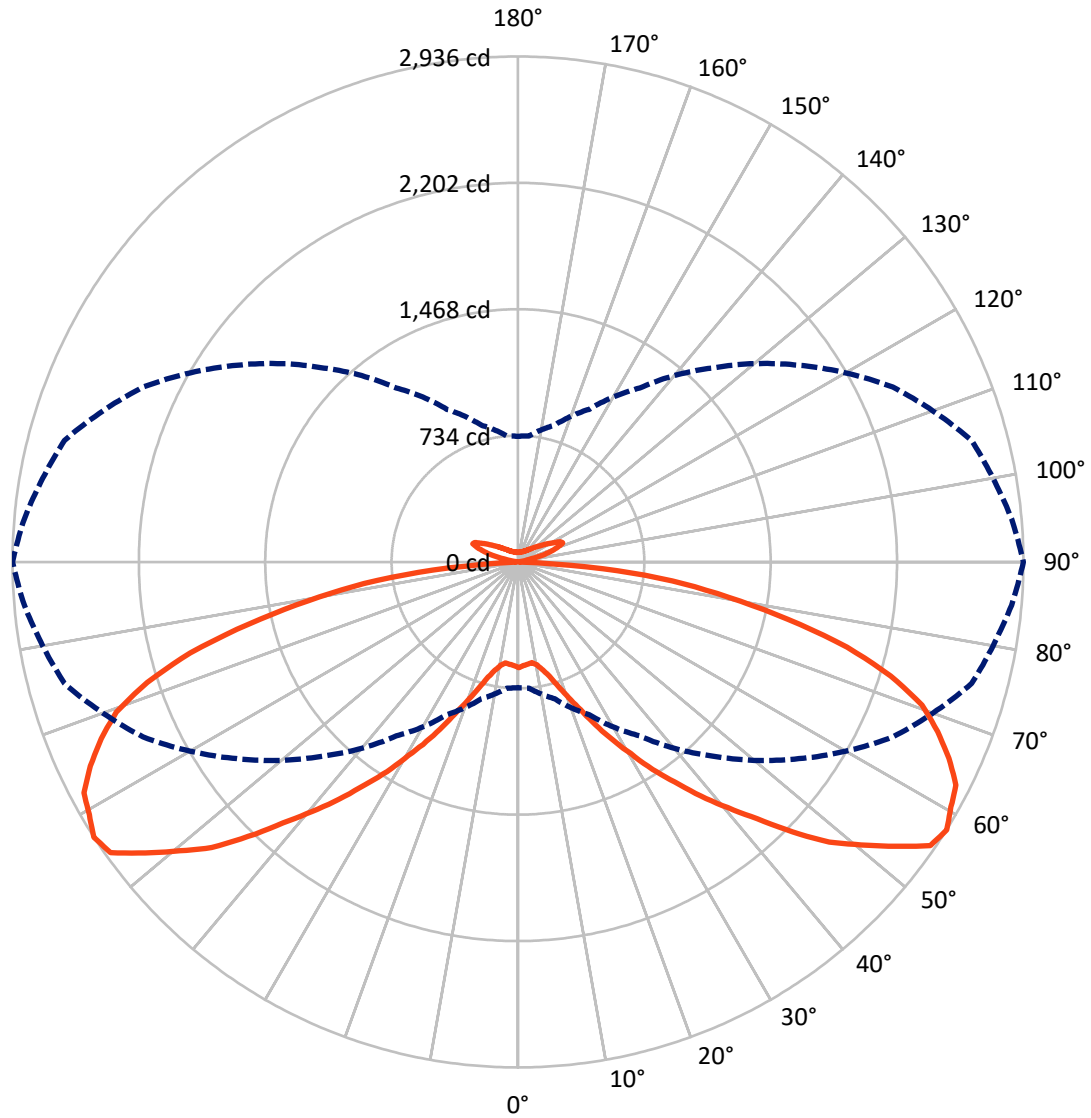
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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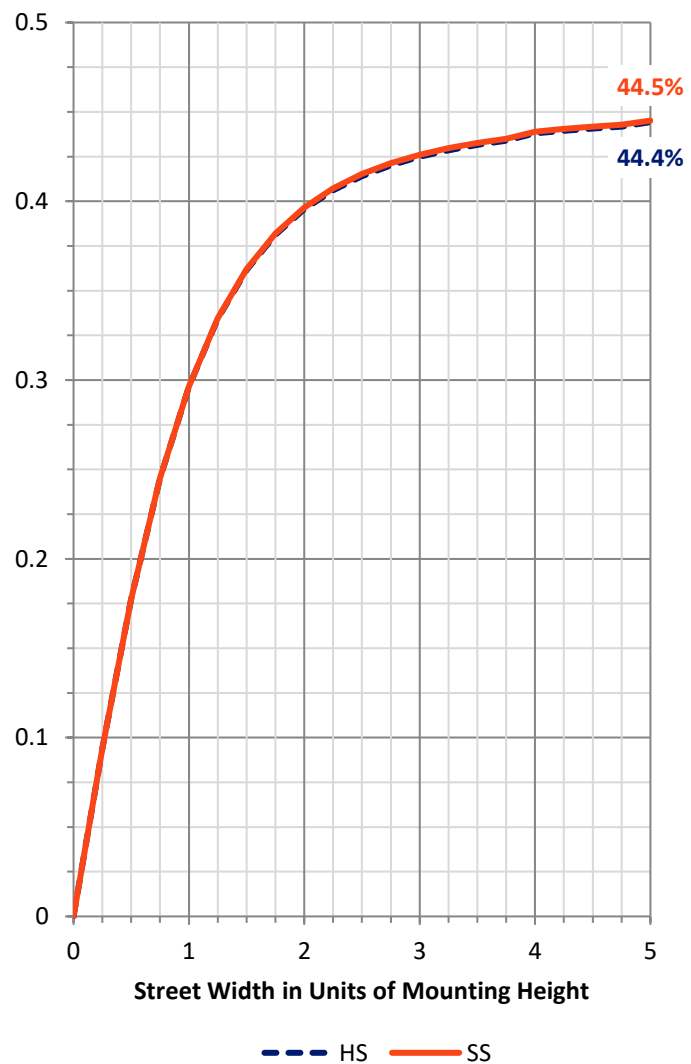
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3431.1	405.8	3836.8
	% Fixture	44.7	5.3	50.0
<b>Street Side</b>	Lumens	3431.1	405.8	3836.8
	% Fixture	44.7	5.3	50.0
<b>Total</b>	Lumens	6862.1	811.5	7673.6
	% Fixture	89.4	10.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	0.7
10°-20°	184.0	2.4
20°-30°	383.9	5.0
30°-40°	688.5	9.0
40°-50°	1100.1	14.3
50°-60°	1506.1	19.6
60°-70°	1553.5	20.2
70°-80°	1104.8	14.4
80°-90°	283.9	3.7
90°-100°	18.1	0.2
100°-110°	184.1	2.4
110°-120°	269.1	3.5
120°-130°	156.2	2.0
130°-140°	82.7	1.1
140°-150°	49.1	0.6
150°-160°	30.3	0.4
160°-170°	16.5	0.2
170°-180°	5.4	0.1
0°-90°	6862.1	89.4
0°-180°	7673.6	100.0

**Coefficient of Utilization**



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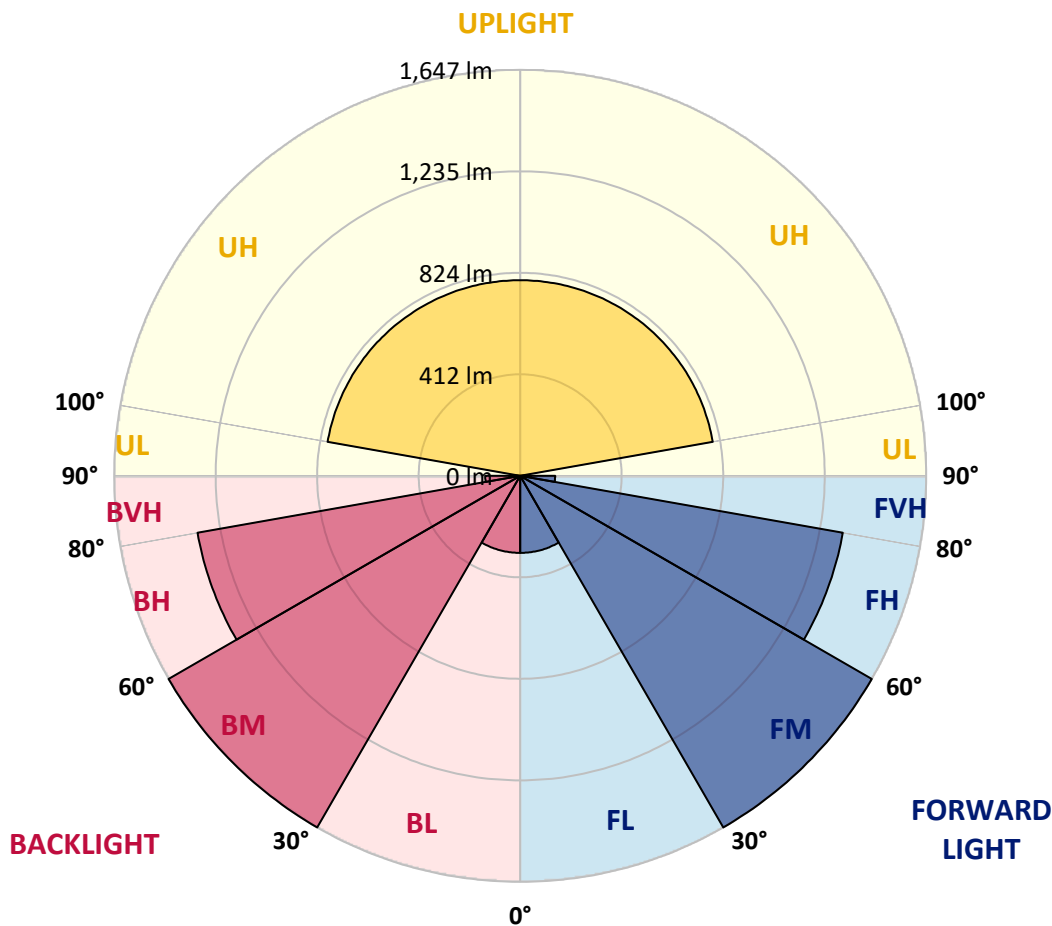
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.7	4.1			
FM (30°-60°)	1647.3	21.5			
FH (60°-80°)	1329.1	17.3			G1/1800
FVH (80°-90°)	141.9	1.8			G2/225
BL (0°-30°)	312.7	4.1	B1/500		
BM (30°-60°)	1647.3	21.5	B2/2500		
BH (60°-80°)	1329.1	17.3	B3/2500		G3/2500
BVH (80°-90°)	141.9	1.8			G2/225
UL (90°-100°)	18.1	0.2		U2/50	
UH (100°-180°)	793.4	10.3		U4/1000	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7
2.5°	613.7	613.7	608.0	608.0	608.0	602.2	602.2	602.2	602.2	596.4	602.2
5°	613.7	613.7	613.7	613.7	608.0	602.2	602.2	602.2	596.4	596.4	596.4
7.5°	608.0	608.0	608.0	608.0	602.2	596.4	596.4	596.4	590.6	590.6	590.6
10°	602.2	608.0	602.2	602.2	596.4	596.4	602.2	602.2	608.0	608.0	608.0
12.5°	596.4	596.4	596.4	602.2	602.2	608.0	619.5	631.1	636.9	642.7	642.7
15°	596.4	596.4	602.2	608.0	619.5	631.1	648.5	665.9	677.4	689.0	689.0
17.5°	596.4	596.4	602.2	619.5	636.9	660.1	689.0	712.2	735.3	752.7	758.5
20°	596.4	596.4	608.0	631.1	665.9	700.6	741.1	775.9	810.6	839.6	839.6
22.5°	602.2	608.0	619.5	648.5	700.6	752.7	804.8	856.9	897.5	932.2	932.2
25°	613.7	613.7	631.1	677.4	741.1	810.6	885.9	949.6	1001.7	1048.0	1048.0
27.5°	619.5	625.3	648.5	706.4	787.4	874.3	978.5	1053.8	1123.3	1163.8	1169.6
30°	631.1	636.9	671.6	729.5	828.0	938.0	1059.6	1163.8	1239.1	1279.6	1291.2
32.5°	636.9	642.7	689.0	758.5	868.5	995.9	1134.8	1268.0	1372.2	1418.6	1435.9
35°	654.3	660.1	706.4	787.4	914.8	1059.6	1221.7	1378.0	1499.6	1557.5	1569.1
37.5°	671.6	677.4	723.8	816.4	961.1	1129.1	1314.3	1493.8	1632.8	1702.3	1725.4
40°	683.2	689.0	741.1	851.1	1013.3	1204.3	1418.6	1615.4	1771.7	1858.6	1876.0
42.5°	700.6	706.4	764.3	880.1	1059.6	1279.6	1528.6	1748.6	1916.5	2014.9	2038.1
45°	718.0	723.8	787.4	914.8	1111.7	1360.7	1638.6	1904.9	2096.0	2211.8	2235.0
47.5°	735.3	741.1	810.6	949.6	1163.8	1441.7	1754.4	2043.9	2275.5	2385.5	2431.8
50°	741.1	752.7	822.2	972.7	1198.5	1511.2	1852.8	2182.8	2426.0	2570.8	2582.4
52.5°	746.9	758.5	833.8	990.1	1227.5	1563.3	1933.9	2298.6	2582.4	2756.1	2744.5
55°	752.7	752.7	833.8	990.1	1239.1	1598.0	1991.8	2373.9	2686.6	2825.5	2906.6
57.5°	729.5	735.3	822.2	978.5	1233.3	1592.3	1991.8	2402.9	2727.1	2877.6	2935.5
60°	700.6	712.2	793.2	949.6	1210.1	1574.9	1980.2	2391.3	2744.5	2906.6	2889.2
62.5°	660.1	683.2	752.7	909.0	1175.4	1534.4	1962.8	2362.3	2703.9	2871.9	2854.5
65°	613.7	636.9	700.6	868.5	1100.1	1435.9	1870.2	2304.4	2593.9	2785.0	2750.3
67.5°	567.4	584.8	648.5	799.0	1013.3	1331.7	1748.6	2177.1	2437.6	2646.0	2628.7
70°	515.3	521.1	584.8	718.0	926.4	1227.5	1632.8	1997.6	2298.6	2455.0	2489.7
72.5°	451.6	451.6	515.3	631.1	822.2	1088.5	1476.5	1794.9	2078.6	2211.8	2263.9
75°	370.6	376.4	428.5	532.7	689.0	932.2	1256.4	1580.7	1818.1	1957.0	1974.4
77.5°	289.5	295.3	335.8	422.7	555.8	752.7	1036.4	1291.2	1517.0	1638.6	1603.8
80°	208.4	214.2	243.2	306.9	411.1	561.6	799.0	1024.8	1187.0	1285.4	1239.1
82.5°	127.4	133.2	150.5	191.1	260.6	364.8	544.3	712.2	839.6	920.6	903.2
85°	63.7	63.7	75.3	86.9	110.0	162.1	260.6	359.0	457.4	515.3	497.9
87.5°	11.6	17.4	17.4	17.4	17.4	11.6	17.4	17.4	17.4	29.0	11.6
90°	6.9	6.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	6.9
92.5°	6.9	6.9	6.9	9.7	11.1	9.7	11.1	8.3	8.3	6.9	6.9
95°	8.3	8.3	9.7	12.5	15.3	16.7	16.7	9.7	9.7	8.3	8.3
97.5°	11.1	12.5	12.5	15.3	25.0	45.8	27.8	13.9	13.9	12.5	11.1
100°	18.0	19.4	19.4	34.7	73.6	98.6	70.8	36.1	26.4	19.4	19.4
102.5°	58.3	61.1	75.0	112.5	166.6	151.3	127.7	120.8	83.3	66.6	63.9
105°	148.6	147.2	158.3	187.4	233.3	229.1	211.0	191.6	165.2	152.7	152.7
107.5°	195.8	195.8	205.5	230.5	265.2	309.6	313.8	248.5	218.0	204.1	202.7
110°	220.8	220.8	229.1	249.9	295.7	358.2	355.4	306.8	269.4	251.3	248.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.3	227.7	238.8	270.7	320.7	348.5	336.0	316.6	299.9	286.0	283.2
115°	234.6	234.6	247.1	277.7	305.5	316.6	302.7	287.4	276.3	270.7	273.5
117.5°	231.9	236.0	238.8	255.5	273.5	281.8	274.9	254.1	245.8	243.0	238.8
120°	215.2	215.2	218.0	226.3	236.0	240.2	237.4	223.5	216.6	215.2	212.4
122.5°	191.6	193.0	191.6	195.8	202.7	206.9	204.1	193.0	190.2	190.2	187.4
125°	168.0	168.0	166.6	169.4	173.6	172.2	173.6	168.0	166.6	166.6	165.2
127.5°	151.3	149.9	147.2	148.6	149.9	149.9	151.3	145.8	147.2	148.6	147.2
130°	134.7	134.7	131.9	131.9	131.9	129.1	131.9	129.1	130.5	131.9	133.3
132.5°	119.4	119.4	115.2	113.9	113.9	113.9	115.2	113.9	116.6	119.4	119.4
135°	106.9	106.9	102.7	104.1	104.1	102.7	104.1	102.7	105.5	106.9	106.9
137.5°	97.2	97.2	94.4	94.4	94.4	93.0	94.4	94.4	95.8	98.6	100.0
140°	88.9	88.9	87.5	87.5	86.1	87.5	87.5	87.5	88.9	90.2	90.2
142.5°	84.7	83.3	81.9	80.5	81.9	81.9	81.9	80.5	81.9	84.7	84.7
145°	77.8	77.8	76.4	76.4	76.4	77.8	76.4	76.4	77.8	77.8	79.1
147.5°	73.6	73.6	72.2	73.6	73.6	73.6	73.6	72.2	73.6	73.6	75.0
150°	72.2	70.8	69.4	70.8	70.8	69.4	69.4	69.4	69.4	70.8	70.8
152.5°	68.0	68.0	66.6	68.0	66.6	66.6	66.6	66.6	66.6	68.0	69.4
155°	65.3	65.3	63.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
157.5°	62.5	63.9	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.9	63.9
160°	61.1	61.1	61.1	61.1	59.7	59.7	59.7	61.1	61.1	61.1	62.5
162.5°	59.7	59.7	59.7	59.7	58.3	58.3	58.3	58.3	59.7	59.7	61.1
165°	59.7	58.3	58.3	58.3	56.9	56.9	56.9	56.9	58.3	59.7	58.3
167.5°	56.9	56.9	56.9	56.9	56.9	55.5	55.5	56.9	56.9	56.9	58.3
170°	56.9	56.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.9
172.5°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	55.5	55.5	56.9	56.9
175°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	56.9	56.9	56.9	55.5
177.5°	56.9	56.9	56.9	56.9	55.5	56.9	56.9	56.9	56.9	56.9	56.9
180°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9

(END OF REPORT)