

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: P833598

Luminaire Tested: **TTN-D2-750-U-RW-CG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833598  
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-D2-750-U-RW-CG-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

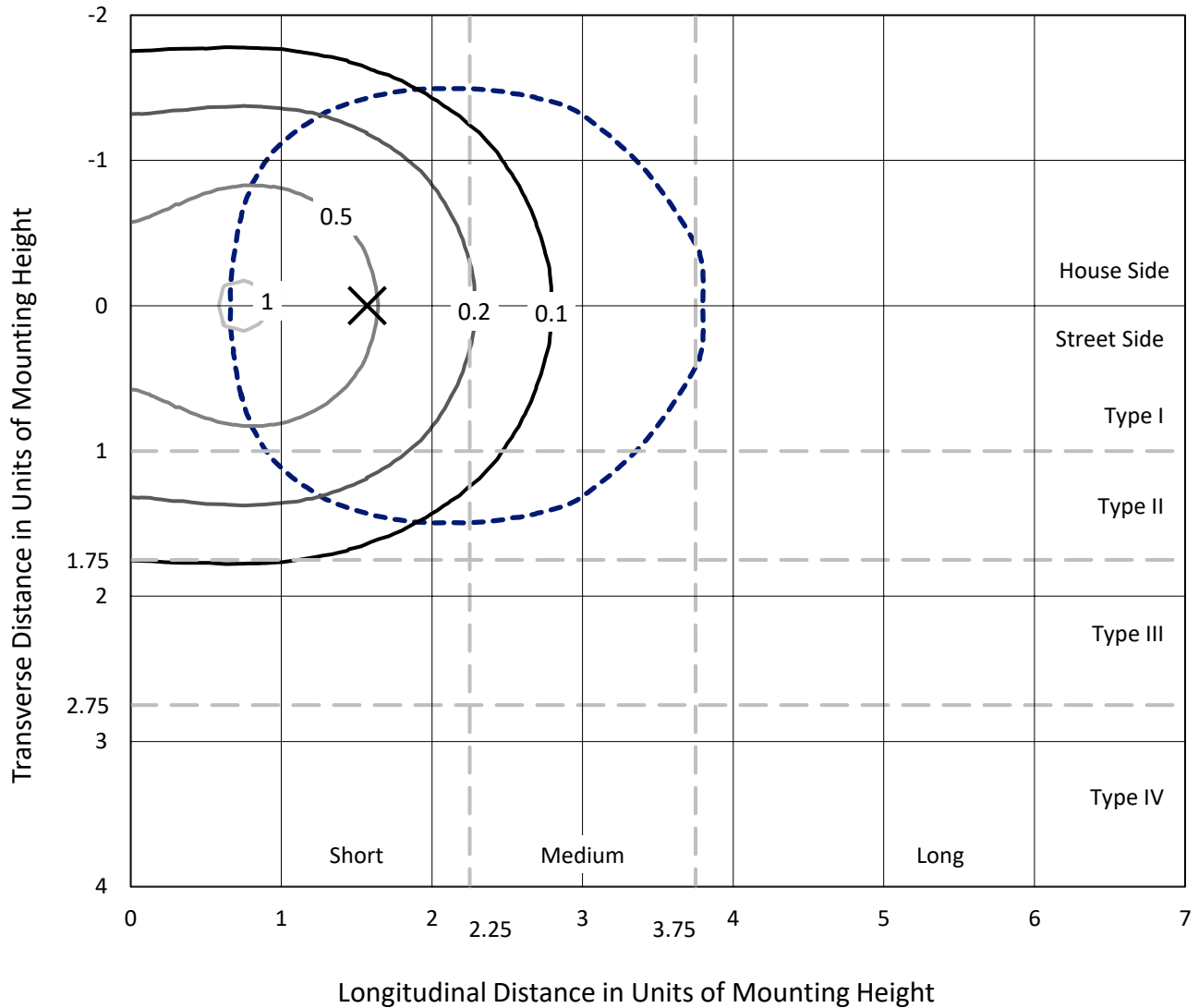
Lumens per Lamp: N/A  
Luminaire Lumens: 5646.6 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type II - Short  
BUG Rating: B2 - U4 - G2  
  
Input Watts (W): 49.5  
Input Voltage (V): NR  
Input Current (Ain): 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

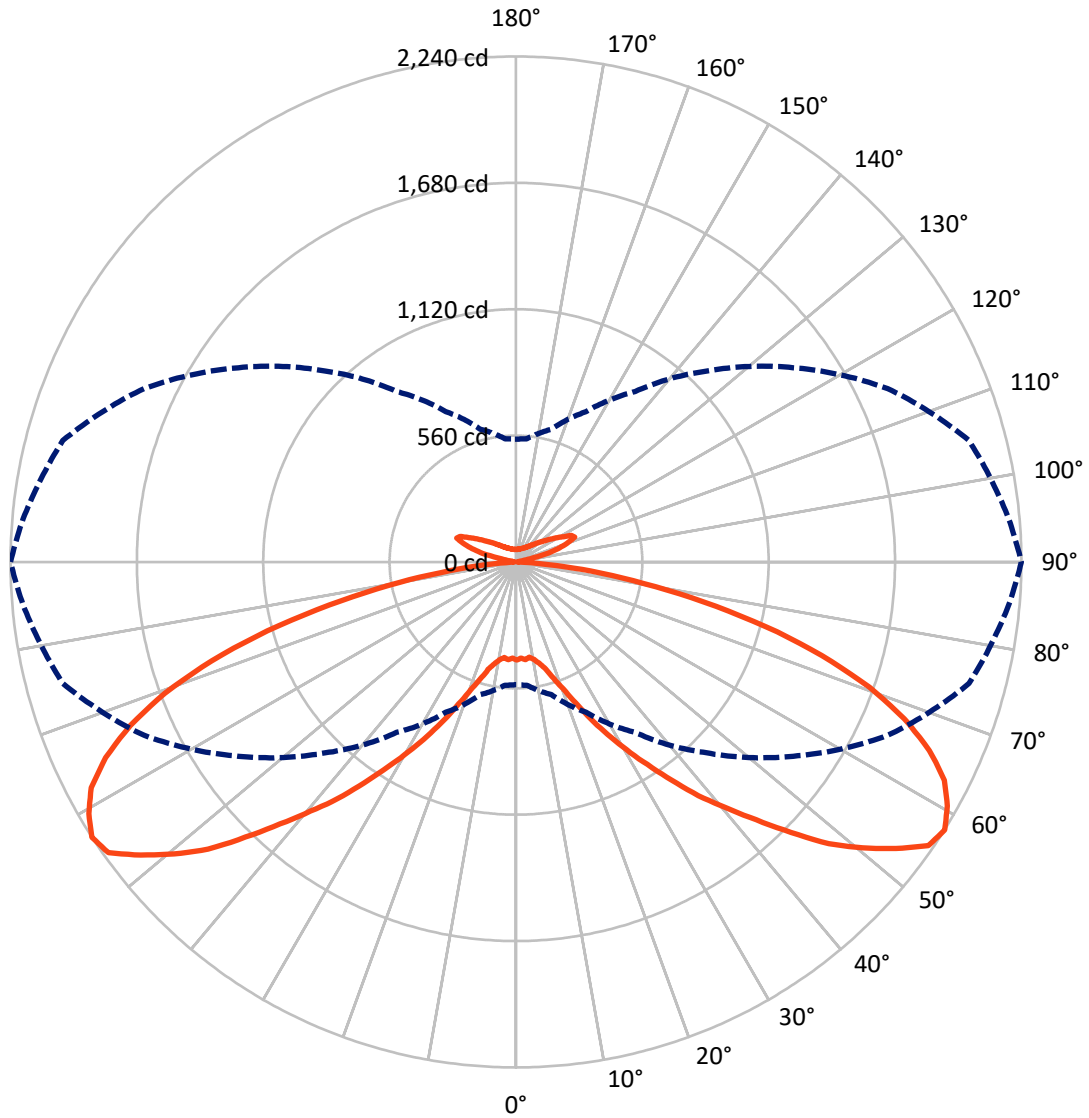
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type 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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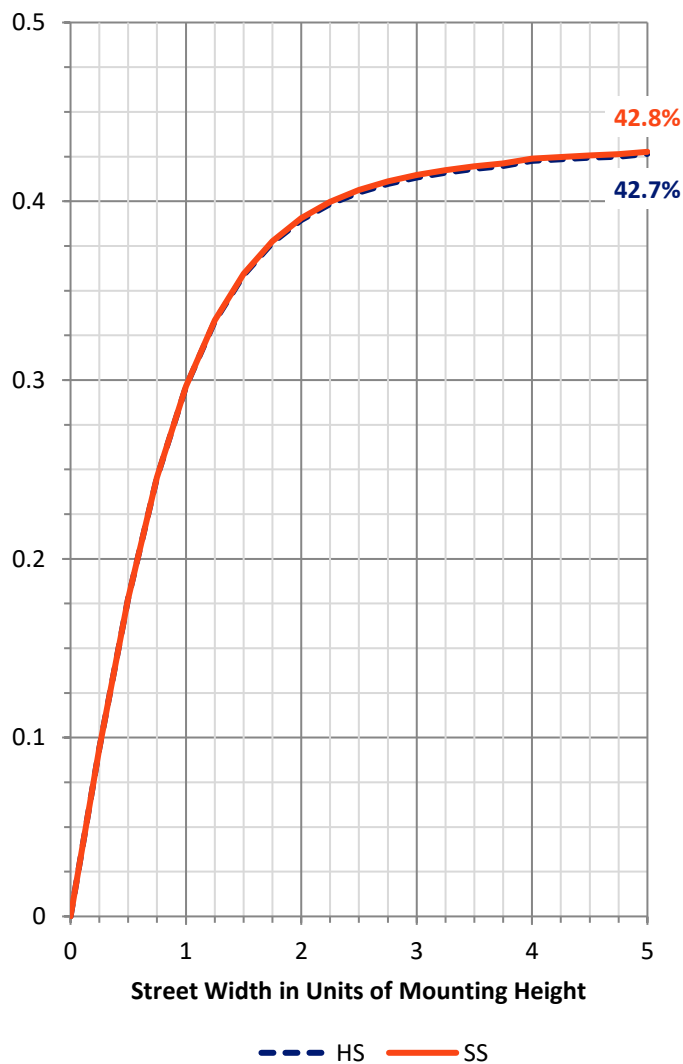
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2417.5	405.8	2823.3
	% Fixture	42.8	7.2	50.0
<b>Street Side</b>	Lumens	2417.5	405.8	2823.3
	% Fixture	42.8	7.2	50.0
<b>Total</b>	Lumens	4835.1	811.5	5646.6
	% Fixture	85.6	14.4	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	0.7
10°-20°	133.6	2.4
20°-30°	284.3	5.0
30°-40°	523.9	9.3
40°-50°	843.6	14.9
50°-60°	1141.8	20.2
60°-70°	1110.2	19.7
70°-80°	645.9	11.4
80°-90°	110.3	2.0
90°-100°	18.1	0.3
100°-110°	184.1	3.3
110°-120°	269.1	4.8
120°-130°	156.2	2.8
130°-140°	82.7	1.5
140°-150°	49.1	0.9
150°-160°	30.3	0.5
160°-170°	16.5	0.3
170°-180°	5.4	0.1
0°-90°	4835.1	85.6
0°-180°	5646.6	100.0

**Coefficient of Utilization**

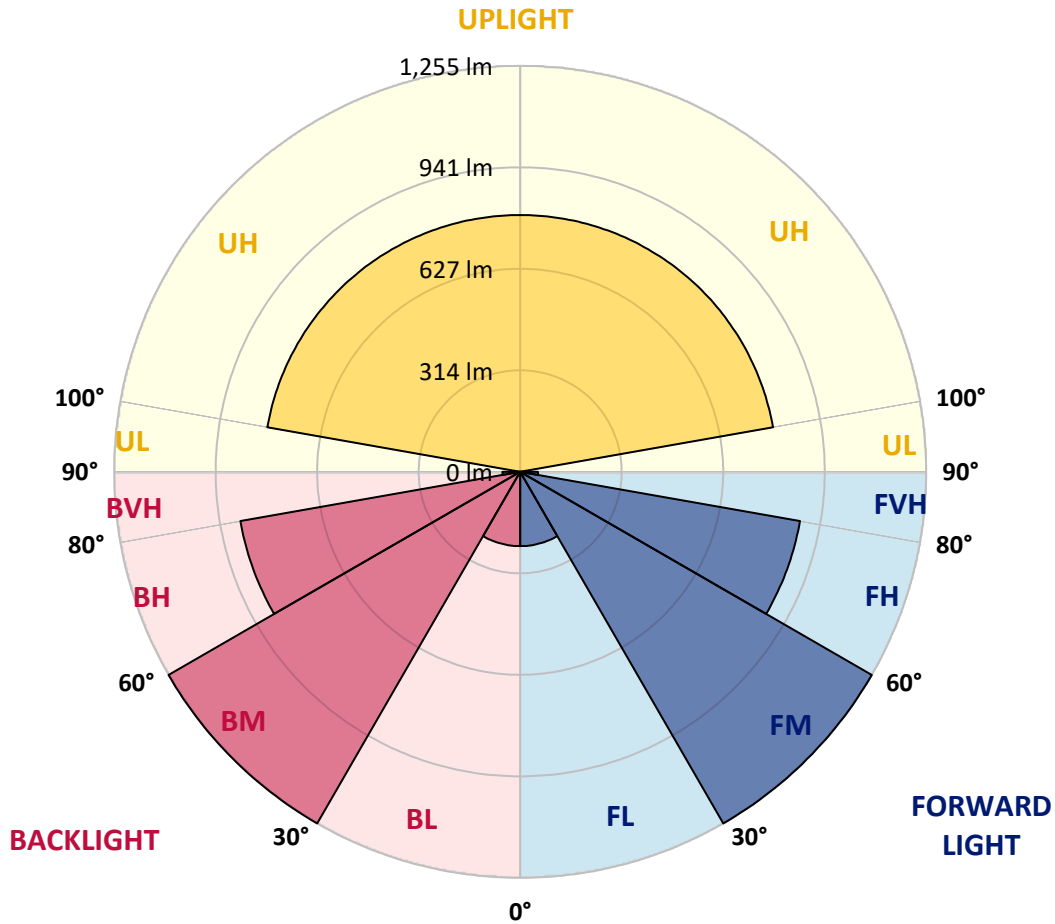


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.6	4.1			
FM (30°-60°)	1254.7	22.2			
FH (60°-80°)	878.1	15.6			G1/1800
FVH (80°-90°)	55.1	1.0			G1/100
BL (0°-30°)	229.6	4.1	B1/500		
BM (30°-60°)	1254.7	22.2	B2/2500		
BH (60°-80°)	878.1	15.6	B2/1000		G2/1000
BVH (80°-90°)	55.1	1.0			G1/100
UL (90°-100°)	18.1	0.3		U2/50	
UH (100°-180°)	793.4	14.1		U4/1000	

**BUG Rating: B2-U4-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
2.5°	434.9	434.9	434.9	434.9	430.6	430.6	430.6	426.2	426.2	426.2	426.2
5°	434.9	434.9	434.9	439.3	439.3	439.3	434.9	434.9	434.9	434.9	434.9
7.5°	434.9	439.3	439.3	434.9	434.9	430.6	430.6	430.6	426.2	426.2	426.2
10°	434.9	434.9	434.9	434.9	430.6	430.6	434.9	434.9	439.3	439.3	439.3
12.5°	430.6	430.6	434.9	434.9	434.9	439.3	448.0	452.3	456.7	461.0	461.0
15°	434.9	434.9	439.3	443.6	448.0	456.7	469.7	482.8	491.5	495.8	491.5
17.5°	434.9	439.3	443.6	452.3	465.4	478.4	500.2	517.6	535.0	539.3	543.7
20°	443.6	443.6	448.0	465.4	487.1	508.9	539.3	569.8	591.5	600.2	600.2
22.5°	448.0	452.3	456.7	478.4	513.2	548.0	591.5	626.3	656.8	674.2	678.5
25°	461.0	461.0	469.7	500.2	543.7	595.9	652.4	704.6	743.7	765.5	769.8
27.5°	469.7	474.1	487.1	526.3	582.8	648.1	726.3	787.2	835.1	861.2	865.5
30°	478.4	482.8	508.9	552.4	622.0	700.2	791.6	869.9	930.8	961.2	965.6
32.5°	491.5	495.8	526.3	574.1	656.8	752.4	856.8	952.5	1039.5	1065.6	1069.9
35°	504.5	508.9	543.7	600.2	695.9	804.6	926.4	1039.5	1143.9	1178.7	1187.4
37.5°	517.6	521.9	556.7	626.3	735.0	861.2	1004.7	1139.5	1252.6	1300.5	1313.5
40°	530.6	535.0	574.1	652.4	774.2	922.1	1087.3	1235.2	1365.7	1422.2	1430.9
42.5°	539.3	543.7	587.2	674.2	813.3	978.6	1174.3	1339.6	1478.8	1552.7	1561.4
45°	552.4	556.7	604.6	704.6	848.1	1043.8	1257.0	1457.0	1618.0	1700.6	1709.3
47.5°	561.1	565.4	617.6	722.0	887.3	1104.7	1344.0	1561.4	1752.8	1839.8	1865.9
50°	565.4	569.8	626.3	739.4	913.4	1148.2	1413.5	1665.8	1870.2	1979.0	1992.0
52.5°	565.4	574.1	630.7	752.4	930.8	1187.4	1470.1	1752.8	1983.3	2105.1	2109.4
55°	561.1	565.4	626.3	748.1	939.5	1204.8	1509.2	1805.0	2061.6	2179.0	2218.2
57.5°	543.7	548.0	608.9	735.0	922.1	1196.1	1500.5	1818.0	2079.0	2192.1	2239.9
60°	517.6	526.3	582.8	704.6	896.0	1165.6	1474.4	1791.9	2052.9	2192.1	2196.4
62.5°	487.1	491.5	548.0	665.5	856.8	1117.8	1426.6	1739.7	1992.0	2135.5	2131.2
65°	443.6	448.0	495.8	617.6	787.2	1026.4	1330.9	1657.1	1874.6	2026.8	2013.8
67.5°	395.8	400.1	443.6	552.4	704.6	926.4	1200.4	1517.9	1709.3	1865.9	1857.2
70°	343.6	343.6	382.7	474.1	617.6	813.3	1056.9	1335.3	1526.6	1657.1	1661.5
72.5°	282.7	282.7	317.5	395.8	517.6	682.8	891.6	1139.5	1296.1	1409.2	1417.9
75°	221.8	217.5	247.9	313.2	408.8	543.7	704.6	917.7	1039.5	1148.2	1143.9
77.5°	156.6	156.6	174.0	226.2	295.8	404.5	521.9	691.5	774.2	865.5	848.1
80°	100.0	100.0	108.7	147.9	195.7	269.7	343.6	469.7	526.3	595.9	574.1
82.5°	52.2	47.8	56.5	78.3	104.4	147.9	191.4	274.0	300.1	352.3	334.9
85°	17.4	17.4	17.4	26.1	39.1	56.5	73.9	117.4	121.8	156.6	143.5
87.5°	4.3	0.0	0.0	4.3	4.3	4.3	4.3	13.0	13.0	26.1	17.4
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)