

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: P833933

Luminaire Tested: **TTN-D3-740-U-WQ-CG-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833933  
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-WQ-CG-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

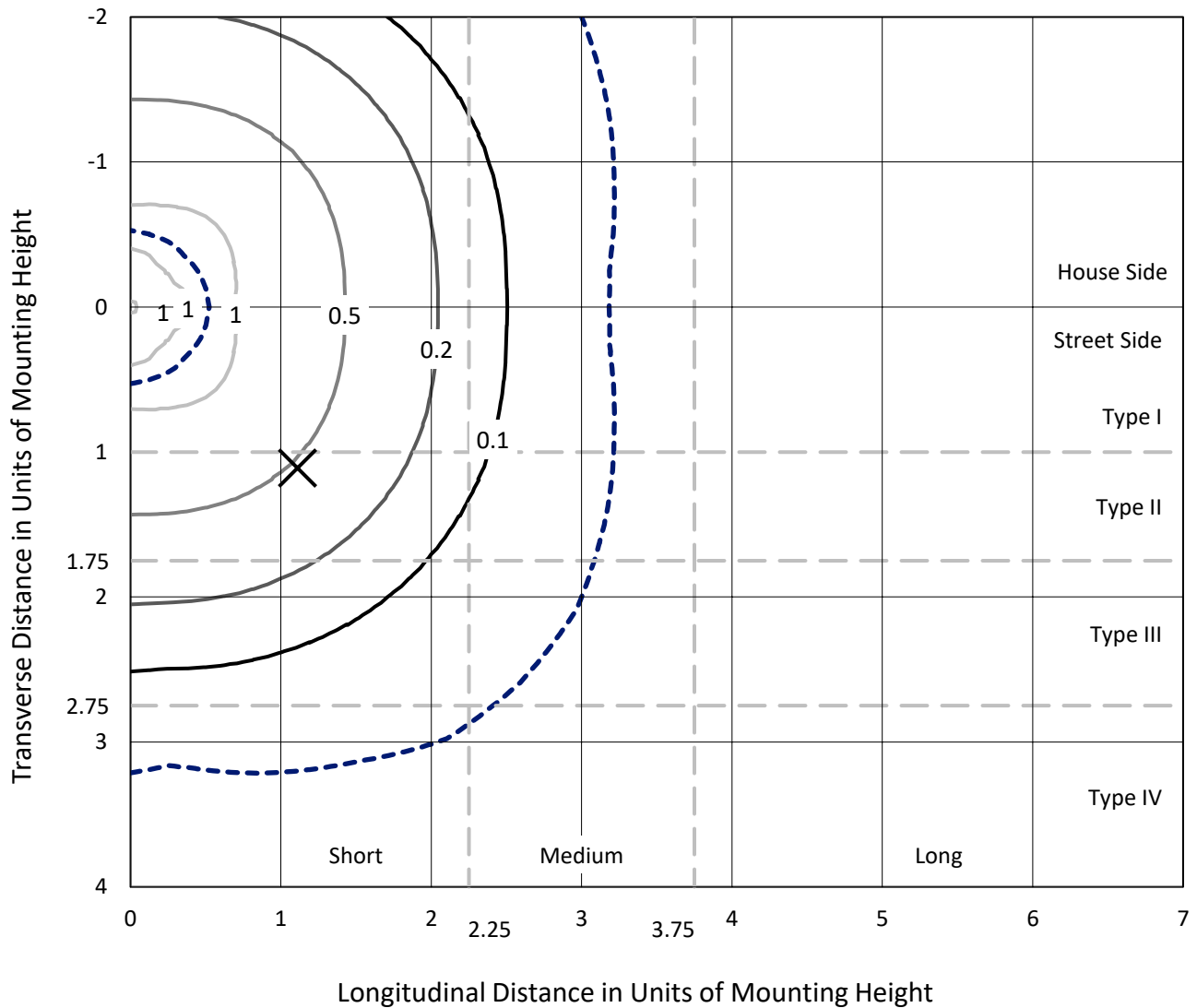
Lumens per Lamp: N/A  
Luminaire Lumens: 7267.7 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G1  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 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

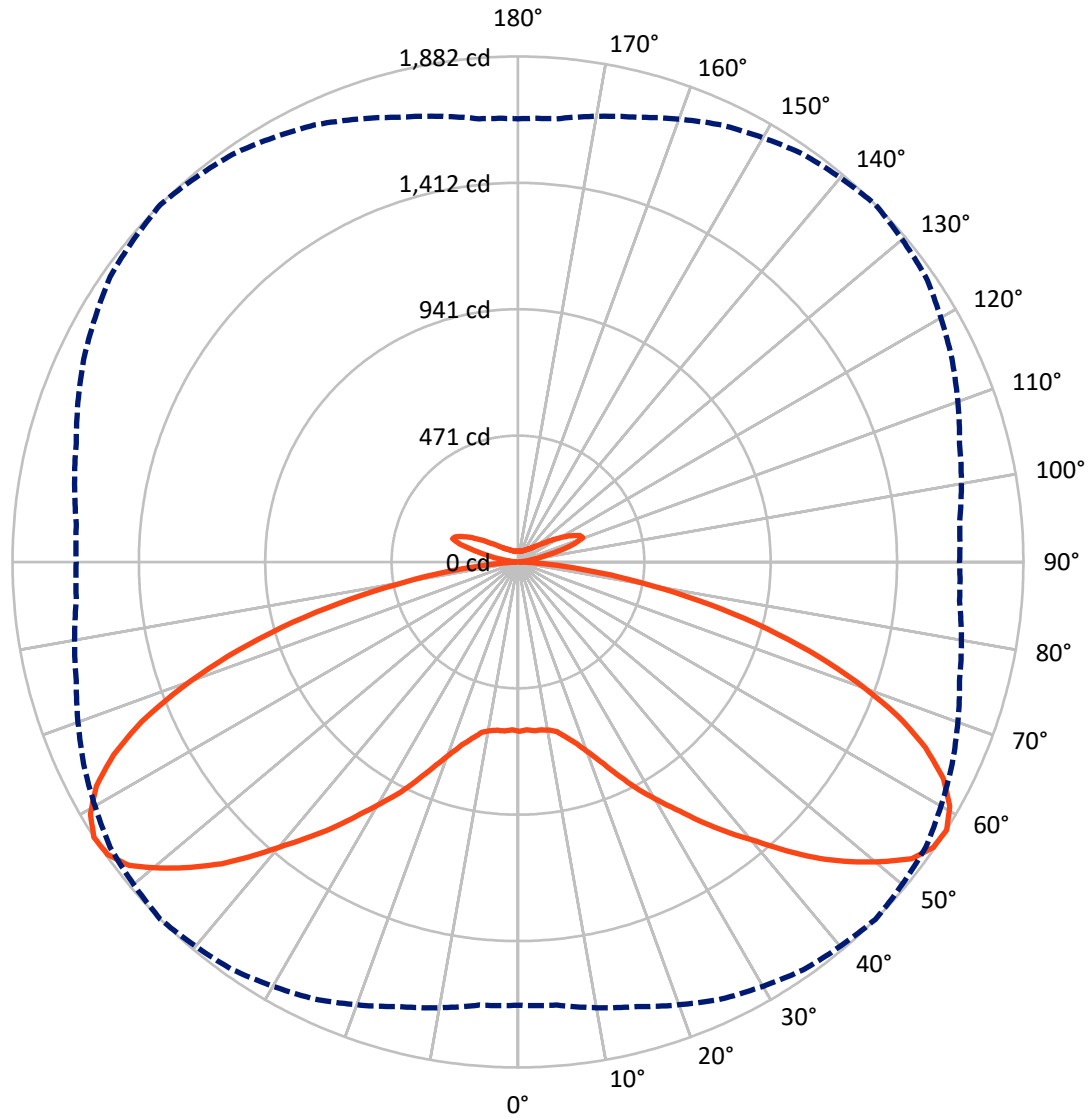
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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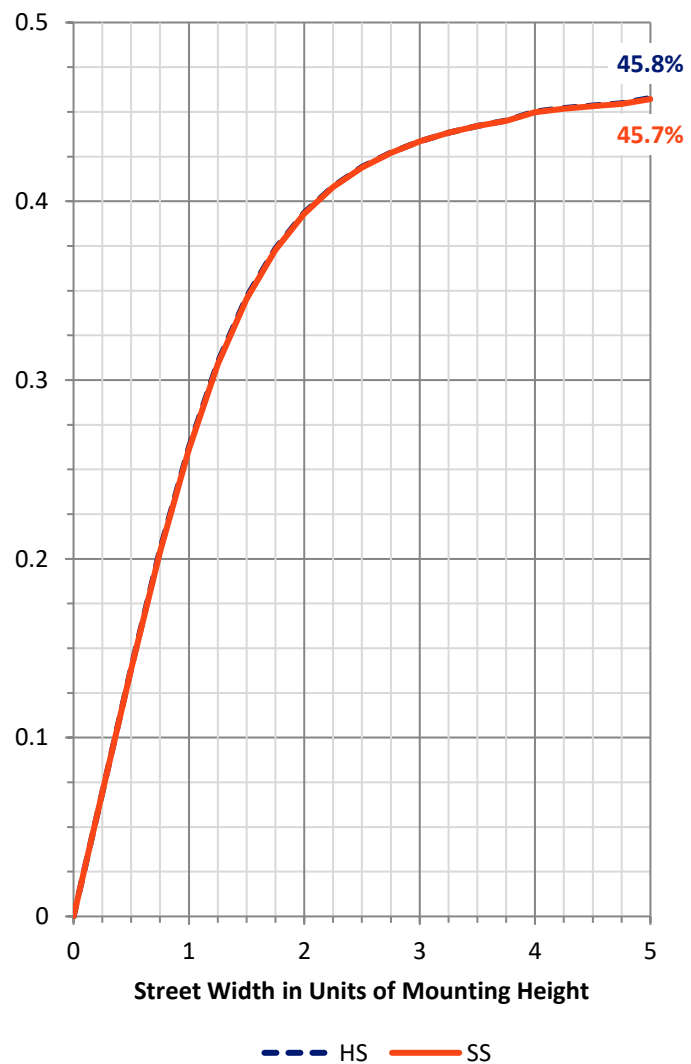
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3341.4	292.5	3633.9
	% Fixture	46.0	4.0	50.0
<b>Street Side</b>	Lumens	3341.4	292.5	3633.9
	% Fixture	46.0	4.0	50.0
<b>Total</b>	Lumens	6682.8	584.9	7267.7
	% Fixture	92.0	8.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	0.8
10°-20°	194.6	2.7
20°-30°	409.5	5.6
30°-40°	738.2	10.2
40°-50°	1173.5	16.1
50°-60°	1565.7	21.5
60°-70°	1512.7	20.8
70°-80°	876.6	12.1
80°-90°	151.9	2.1
90°-100°	13.1	0.2
100°-110°	132.7	1.8
110°-120°	194.0	2.7
120°-130°	112.6	1.5
130°-140°	59.7	0.8
140°-150°	35.4	0.5
150°-160°	21.8	0.3
160°-170°	11.9	0.2
170°-180°	3.9	0.1
0°-90°	6682.8	92.0
0°-180°	7267.7	100.0

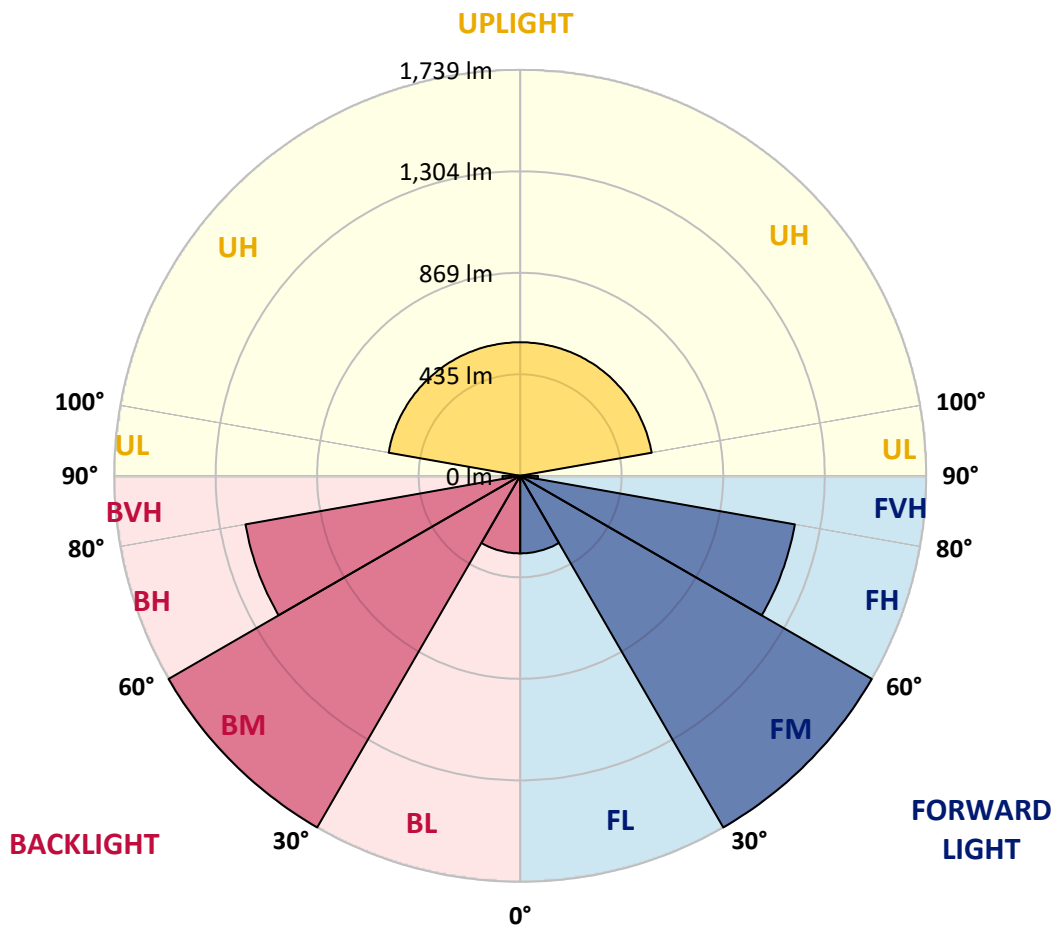


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.2	4.6			
FM (30°-60°)	1738.7	23.9			
FH (60°-80°)	1194.6	16.4			G1/1800
FVH (80°-90°)	75.9	1.0			G1/100
BL (0°-30°)	332.2	4.6	B1/500		
BM (30°-60°)	1738.7	23.9	B2/2500		
BH (60°-80°)	1194.6	16.4	B3/2500		G1/1800
BVH (80°-90°)	75.9	1.0			G1/100
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	7.9		U4/1000	

**BUG Rating: B3-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°	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4	625.4
5°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
7.5°	625.4	625.4	631.2	631.2	631.2	631.2	631.2	631.2	631.2	625.4	625.4
10°	631.2	631.2	631.2	637.0	637.0	637.0	637.0	637.0	631.2	631.2	631.2
12.5°	642.8	642.8	648.6	648.6	648.6	648.6	648.6	648.6	648.6	642.8	642.8
15°	671.8	671.8	671.8	677.6	677.6	677.6	677.6	677.6	671.8	671.8	671.8
17.5°	700.7	700.7	706.5	706.5	712.3	712.3	712.3	706.5	706.5	706.5	706.5
20°	741.3	741.3	747.1	747.1	752.8	752.8	752.8	747.1	747.1	747.1	747.1
22.5°	793.4	799.2	799.2	799.2	805.0	810.8	810.8	805.0	799.2	799.2	799.2
25°	857.1	862.9	868.7	868.7	874.5	886.0	886.0	868.7	868.7	868.7	868.7
27.5°	932.4	938.2	944.0	944.0	949.7	961.3	955.5	944.0	944.0	938.2	938.2
30°	1001.9	1007.7	1013.4	1019.2	1025.0	1030.8	1030.8	1019.2	1013.4	1007.7	1001.9
32.5°	1071.4	1071.4	1082.9	1094.5	1106.1	1111.9	1111.9	1094.5	1082.9	1071.4	1065.6
35°	1140.8	1146.6	1152.4	1169.8	1187.2	1193.0	1187.2	1169.8	1152.4	1140.8	1140.8
37.5°	1216.1	1221.9	1227.7	1250.9	1268.3	1279.8	1268.3	1250.9	1227.7	1216.1	1210.3
40°	1297.2	1303.0	1308.8	1337.7	1355.1	1366.7	1349.3	1332.0	1308.8	1297.2	1291.4
42.5°	1372.5	1384.1	1395.7	1430.4	1459.4	1470.9	1453.6	1424.6	1401.4	1372.5	1366.7
45°	1465.1	1476.7	1494.1	1528.9	1557.8	1575.2	1552.0	1523.1	1488.3	1465.1	1459.4
47.5°	1540.4	1552.0	1569.4	1615.7	1656.3	1667.8	1644.7	1609.9	1563.6	1534.6	1528.9
50°	1598.3	1609.9	1644.7	1696.8	1743.1	1754.7	1731.5	1685.2	1633.1	1592.6	1586.8
52.5°	1644.7	1656.3	1696.8	1766.3	1818.4	1835.8	1806.8	1754.7	1685.2	1638.9	1633.1
55°	1667.8	1673.6	1725.7	1801.0	1853.2	1876.3	1847.4	1789.5	1714.2	1662.0	1656.3
57.5°	1650.5	1656.3	1714.2	1795.2	1853.2	1882.1	1853.2	1783.7	1702.6	1650.5	1644.7
60°	1615.7	1615.7	1667.8	1760.5	1830.0	1847.4	1818.4	1748.9	1662.0	1609.9	1604.1
62.5°	1552.0	1546.2	1609.9	1691.0	1760.5	1777.9	1754.7	1685.2	1598.3	1546.2	1540.4
65°	1430.4	1418.8	1511.5	1586.8	1650.5	1667.8	1650.5	1586.8	1505.7	1424.6	1413.0
67.5°	1285.6	1268.3	1355.1	1442.0	1499.9	1523.1	1499.9	1447.8	1355.1	1274.0	1268.3
70°	1135.1	1117.7	1187.2	1262.5	1326.2	1337.7	1314.6	1262.5	1175.6	1123.5	1123.5
72.5°	955.5	938.2	1001.9	1059.8	1123.5	1135.1	1111.9	1065.6	1001.9	949.7	944.0
75°	758.6	741.3	799.2	845.5	909.2	915.0	903.4	851.3	799.2	747.1	747.1
77.5°	561.7	544.4	590.7	631.2	683.4	683.4	677.6	637.0	590.7	555.9	555.9
80°	370.6	359.0	399.6	417.0	463.3	463.3	457.5	428.5	393.8	370.6	364.8
82.5°	208.5	196.9	231.6	237.4	272.2	272.2	266.4	243.2	220.1	202.7	202.7
85°	81.1	69.5	92.7	98.4	115.8	115.8	110.0	104.2	86.9	75.3	75.3
87.5°	5.8	5.8	11.6	11.6	17.4	17.4	17.4	11.6	11.6	5.8	5.8
90°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
92.5°	5.0	5.0	5.0	7.0	8.0	7.0	8.0	6.0	6.0	5.0	5.0
95°	6.0	6.0	7.0	9.0	11.0	12.0	12.0	7.0	7.0	6.0	6.0
97.5°	8.0	9.0	9.0	11.0	18.0	33.0	20.0	10.0	10.0	9.0	8.0
100°	13.0	14.0	14.0	25.0	53.0	71.1	51.0	26.0	19.0	14.0	14.0
102.5°	42.0	44.0	54.0	81.1	120.1	109.1	92.1	87.1	60.0	48.0	46.0
105°	107.1	106.1	114.1	135.1	168.1	165.1	152.1	138.1	119.1	110.1	110.1
107.5°	141.1	141.1	148.1	166.1	191.1	223.2	226.2	179.1	157.1	147.1	146.1
110°	159.1	159.1	165.1	180.1	213.2	258.2	256.2	221.2	194.1	181.1	179.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	163.1	164.1	172.1	195.1	231.2	251.2	242.2	228.2	216.2	206.2	204.2
115°	169.1	169.1	178.1	200.2	220.2	228.2	218.2	207.2	199.2	195.1	197.1
117.5°	167.1	170.1	172.1	184.1	197.1	203.2	198.1	183.1	177.1	175.1	172.1
120°	155.1	155.1	157.1	163.1	170.1	173.1	171.1	161.1	156.1	155.1	153.1
122.5°	138.1	139.1	138.1	141.1	146.1	149.1	147.1	139.1	137.1	137.1	135.1
125°	121.1	121.1	120.1	122.1	125.1	124.1	125.1	121.1	120.1	120.1	119.1
127.5°	109.1	108.1	106.1	107.1	108.1	108.1	109.1	105.1	106.1	107.1	106.1
130°	97.1	97.1	95.1	95.1	95.1	93.1	95.1	93.1	94.1	95.1	96.1
132.5°	86.1	86.1	83.1	82.1	82.1	82.1	83.1	82.1	84.1	86.1	86.1
135°	77.1	77.1	74.1	75.1	75.1	74.1	75.1	74.1	76.1	77.1	77.1
137.5°	70.1	70.1	68.1	68.1	68.1	67.1	68.1	68.1	69.1	71.1	72.1
140°	64.0	64.0	63.0	63.0	62.0	63.0	63.0	63.0	64.0	65.0	65.0
142.5°	61.0	60.0	59.0	58.0	59.0	59.0	59.0	58.0	59.0	61.0	61.0
145°	56.0	56.0	55.0	55.0	55.0	56.0	55.0	55.0	56.0	56.0	57.0
147.5°	53.0	53.0	52.0	53.0	53.0	53.0	53.0	52.0	53.0	53.0	54.0
150°	52.0	51.0	50.0	51.0	51.0	50.0	50.0	50.0	50.0	51.0	51.0
152.5°	49.0	49.0	48.0	49.0	48.0	48.0	48.0	48.0	48.0	49.0	50.0
155°	47.0	47.0	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
157.5°	45.0	46.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.0
160°	44.0	44.0	44.0	44.0	43.0	43.0	43.0	44.0	44.0	44.0	45.0
162.5°	43.0	43.0	43.0	43.0	42.0	42.0	42.0	42.0	43.0	43.0	44.0
165°	43.0	42.0	42.0	42.0	41.0	41.0	41.0	41.0	42.0	43.0	42.0
167.5°	41.0	41.0	41.0	41.0	41.0	40.0	40.0	41.0	41.0	41.0	42.0
170°	41.0	41.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	41.0
172.5°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	40.0	40.0	41.0	41.0
175°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	41.0	41.0	41.0	40.0
177.5°	41.0	41.0	41.0	41.0	40.0	41.0	41.0	41.0	41.0	41.0	41.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

(END OF REPORT)