

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: P833969

Luminaire Tested: **TTN-D3-750-U-WQ-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833969  
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-D3-750-U-WQ-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

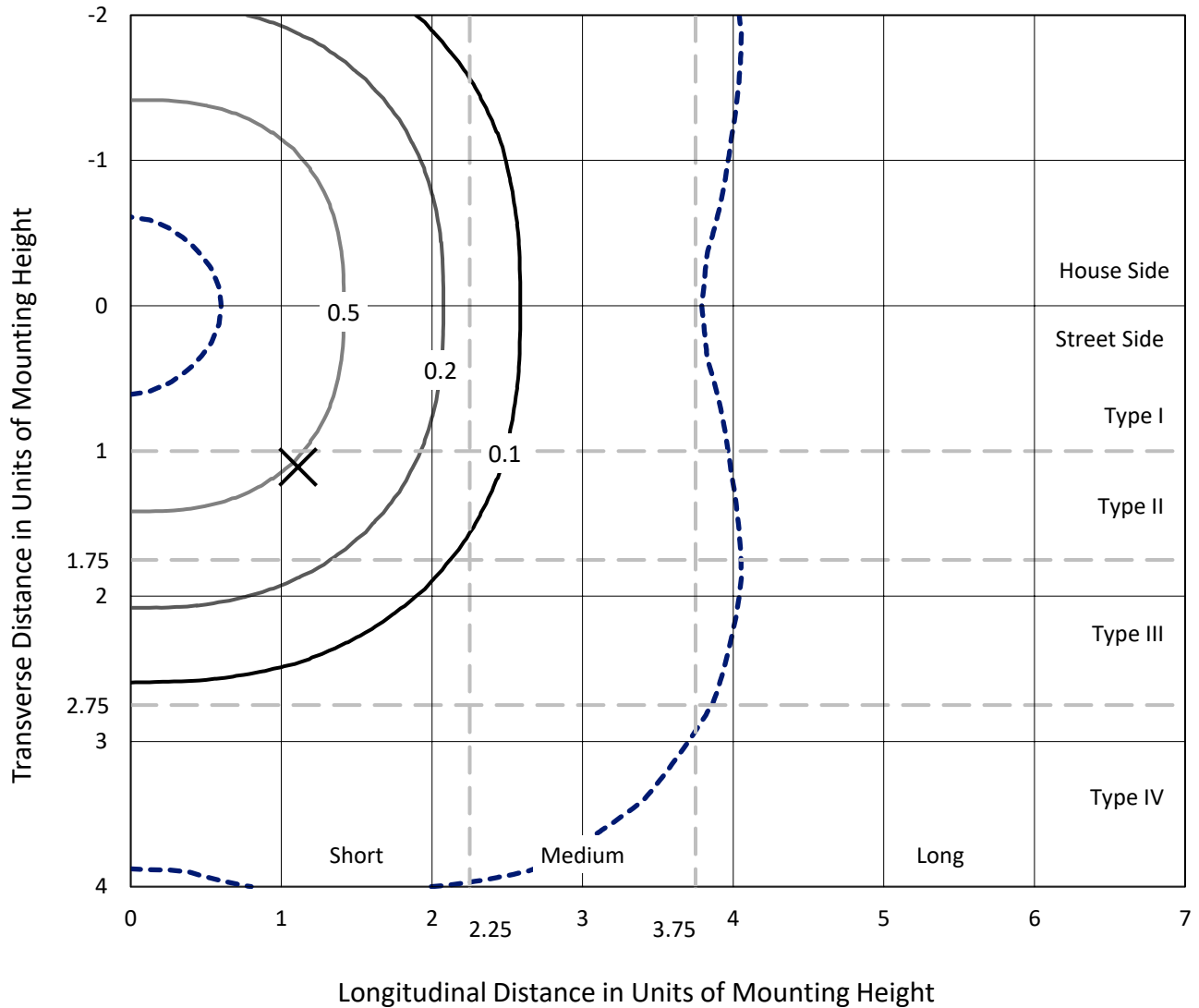
Lumens per Lamp: N/A  
Luminaire Lumens: 7620.7 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B3 - U4 - G2  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 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

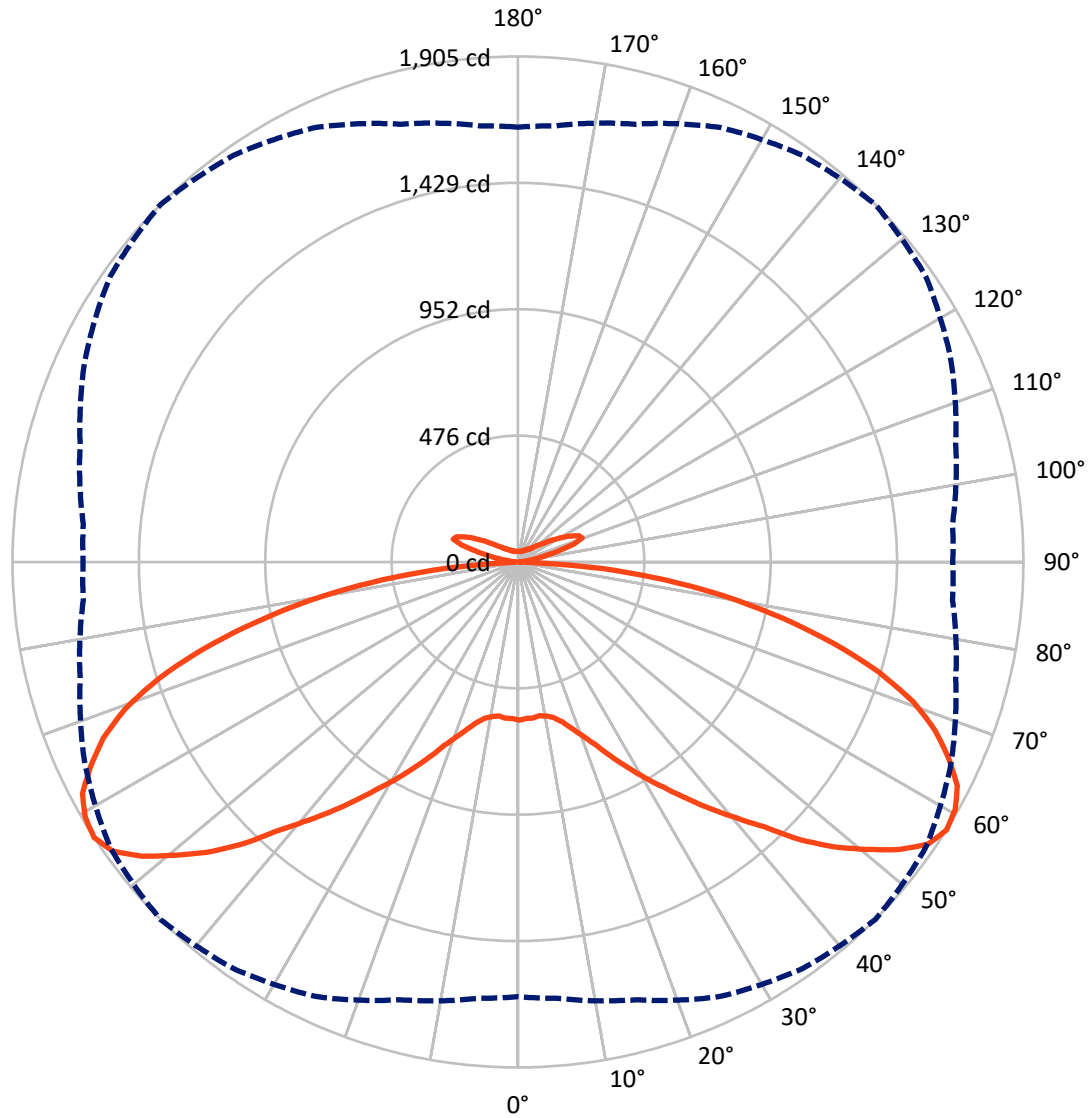
✕ Max cd  
 - - - 1/2 Max cd



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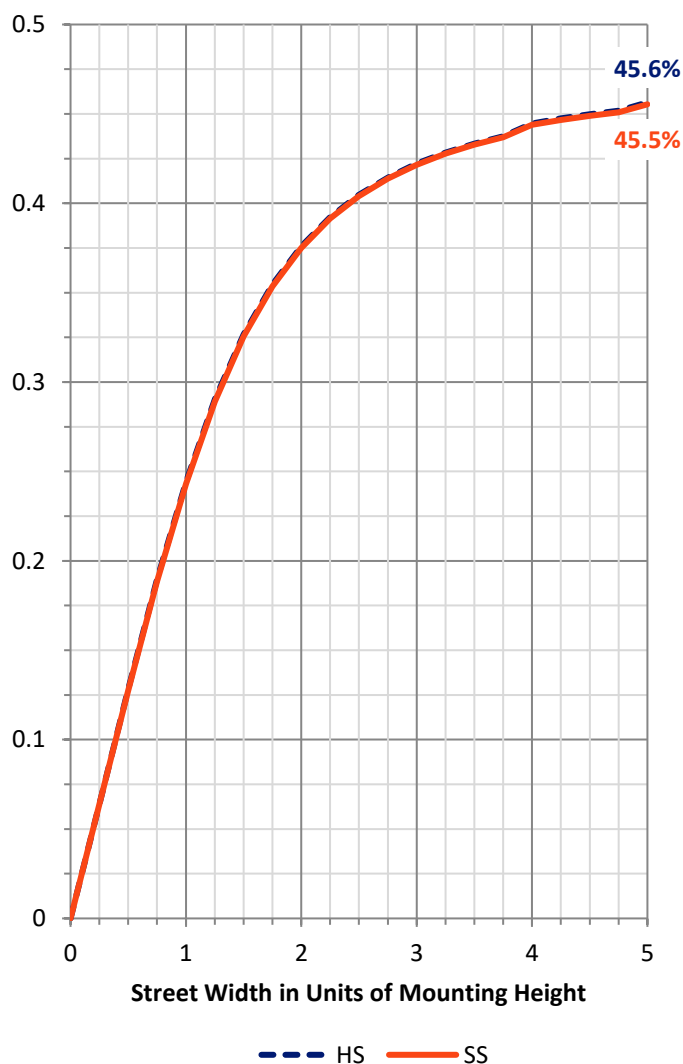
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3517.9	292.5	3810.4
	% Fixture	46.2	3.8	50.0
<b>Street Side</b>	Lumens	3517.9	292.5	3810.4
	% Fixture	46.2	3.8	50.0
<b>Total</b>	Lumens	7035.8	584.9	7620.7
	% Fixture	92.3	7.7	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	0.7
10°-20°	178.9	2.3
20°-30°	375.3	4.9
30°-40°	680.9	8.9
40°-50°	1109.9	14.6
50°-60°	1553.6	20.4
60°-70°	1621.9	21.3
70°-80°	1158.8	15.2
80°-90°	300.6	3.9
90°-100°	13.1	0.2
100°-110°	132.7	1.7
110°-120°	194.0	2.5
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°	7035.8	92.3
0°-180°	7620.7	100.0

**Coefficient of Utilization**



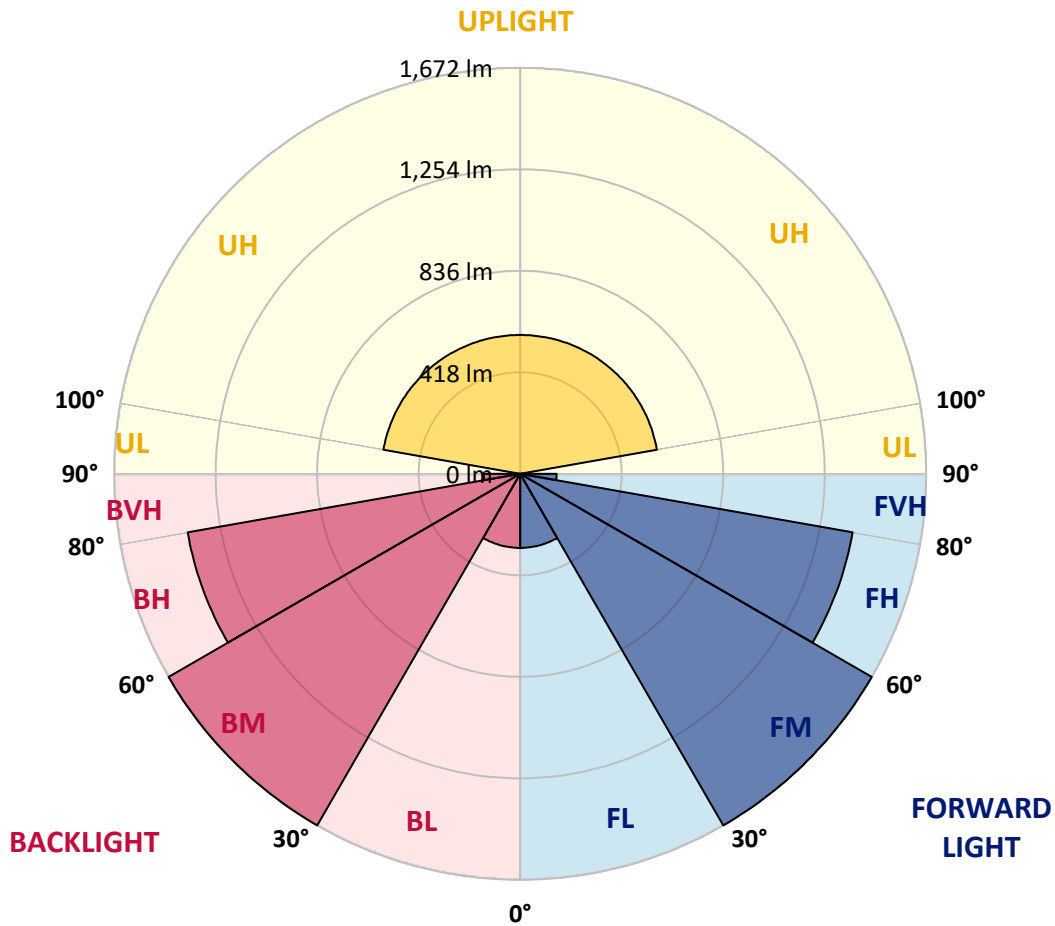
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.1	4.0			
FM (30°-60°)	1672.2	21.9			
FH (60°-80°)	1390.3	18.2			G1/1800
FVH (80°-90°)	150.3	2.0			G2/225
BL (0°-30°)	305.1	4.0	B1/500		
BM (30°-60°)	1672.2	21.9	B2/2500		
BH (60°-80°)	1390.3	18.2	B3/2500		G1/1800
BVH (80°-90°)	150.3	2.0			G2/225
UL (90°-100°)	13.1	0.2		U2/50	
UH (100°-180°)	571.8	7.5		U4/1000	

**BUG Rating: B3-U4-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.3	596.3
2.5°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
5°	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5
7.5°	578.9	578.9	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7
10°	578.9	578.9	584.7	584.7	590.5	590.5	590.5	584.7	584.7	578.9	578.9
12.5°	590.5	590.5	590.5	596.3	602.1	602.1	602.1	596.3	596.3	590.5	590.5
15°	607.9	613.7	613.7	619.5	625.3	625.3	625.3	619.5	619.5	613.7	613.7
17.5°	642.6	642.6	642.6	648.4	654.2	660.0	660.0	648.4	648.4	642.6	648.4
20°	677.4	683.2	683.2	688.9	694.7	700.5	694.7	688.9	683.2	683.2	683.2
22.5°	729.5	729.5	735.3	735.3	746.8	746.8	746.8	735.3	735.3	735.3	735.3
25°	787.4	787.4	793.2	798.9	810.5	810.5	804.7	793.2	793.2	793.2	798.9
27.5°	856.8	856.8	862.6	862.6	874.2	874.2	868.4	862.6	862.6	862.6	868.4
30°	920.5	920.5	932.1	937.9	943.7	943.7	943.7	932.1	932.1	926.3	926.3
32.5°	978.4	984.2	990.0	1007.4	1018.9	1013.2	1018.9	1007.4	995.8	990.0	990.0
35°	1042.1	1047.9	1059.5	1076.8	1094.2	1094.2	1094.2	1076.8	1065.3	1053.7	1059.5
37.5°	1117.4	1117.4	1134.7	1152.1	1175.3	1181.0	1175.3	1157.9	1140.5	1128.9	1128.9
40°	1198.4	1198.4	1215.8	1233.2	1262.1	1267.9	1262.1	1238.9	1215.8	1210.0	1210.0
42.5°	1279.5	1279.5	1302.6	1320.0	1354.7	1366.3	1354.7	1325.8	1302.6	1285.3	1291.0
45°	1366.3	1372.1	1401.0	1435.8	1476.3	1493.7	1476.3	1441.6	1406.8	1372.1	1372.1
47.5°	1464.7	1464.7	1499.5	1540.0	1586.3	1603.7	1580.5	1545.8	1499.5	1470.5	1470.5
50°	1528.4	1534.2	1580.5	1632.6	1690.5	1702.1	1684.7	1632.6	1580.5	1540.0	1534.2
52.5°	1592.1	1597.9	1650.0	1725.3	1783.1	1800.5	1777.4	1725.3	1650.0	1597.9	1597.9
55°	1632.6	1644.2	1702.1	1783.1	1846.8	1875.8	1841.0	1783.1	1696.3	1638.4	1632.6
57.5°	1638.4	1650.0	1707.9	1806.3	1870.0	1904.7	1875.8	1800.5	1707.9	1644.2	1638.4
60°	1626.8	1632.6	1690.5	1794.7	1870.0	1893.1	1870.0	1788.9	1684.7	1632.6	1621.0
62.5°	1597.9	1609.5	1667.4	1754.2	1841.0	1858.4	1835.3	1748.4	1661.6	1597.9	1586.3
65°	1505.3	1516.8	1603.7	1690.5	1765.8	1783.1	1765.8	1690.5	1597.9	1505.3	1493.7
67.5°	1401.0	1406.8	1493.7	1597.9	1667.4	1696.3	1667.4	1603.7	1487.9	1401.0	1389.5
70°	1291.0	1296.8	1366.3	1476.3	1545.8	1580.5	1551.6	1482.1	1360.5	1285.3	1279.5
72.5°	1163.7	1163.7	1233.2	1320.0	1389.5	1424.2	1401.0	1314.2	1221.6	1146.3	1134.7
75°	990.0	995.8	1071.0	1134.7	1210.0	1233.2	1210.0	1140.5	1053.7	978.4	966.8
77.5°	810.5	816.3	880.0	932.1	1001.6	1018.9	1001.6	943.7	862.6	798.9	793.2
80°	613.7	619.5	671.6	717.9	775.8	798.9	781.6	723.7	660.0	602.1	584.7
82.5°	399.5	405.3	457.4	492.1	544.2	561.6	550.0	497.9	445.8	387.9	382.1
85°	179.5	185.3	231.6	260.5	301.1	318.4	306.8	260.5	220.0	167.9	156.3
87.5°	17.4	17.4	17.4	17.4	17.4	23.2	23.2	17.4	17.4	17.4	17.4
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)