

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: P833934

Luminaire Tested: **TTN-D3-740-U-WQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833934
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-UPL3
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: 7494.6 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G1

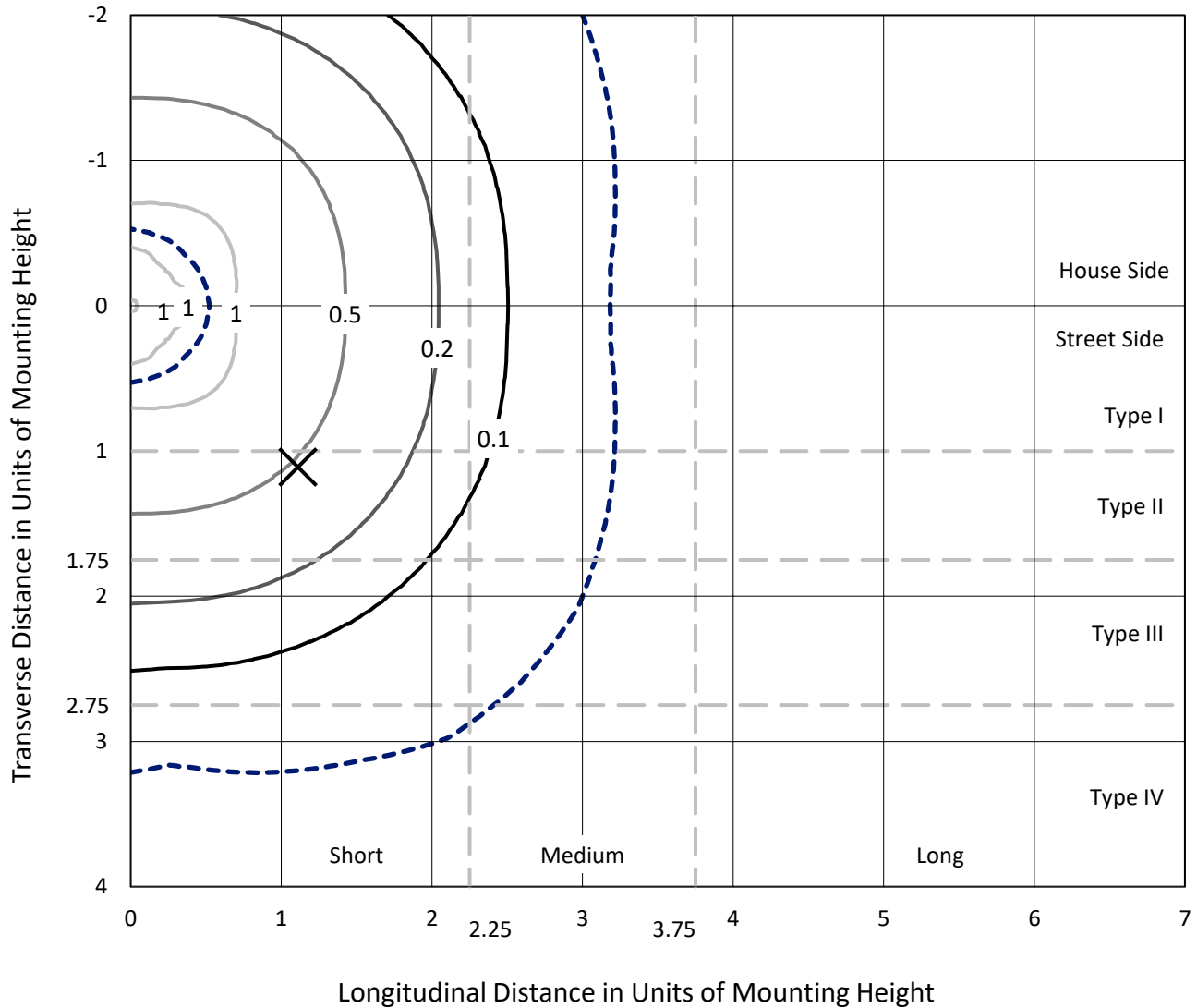
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P833934
 CATALOG NUMBER: TTN-D3-740-U-WQ-CG-UPL3

Iso-Footcandle Lines of Horizontal Illumination

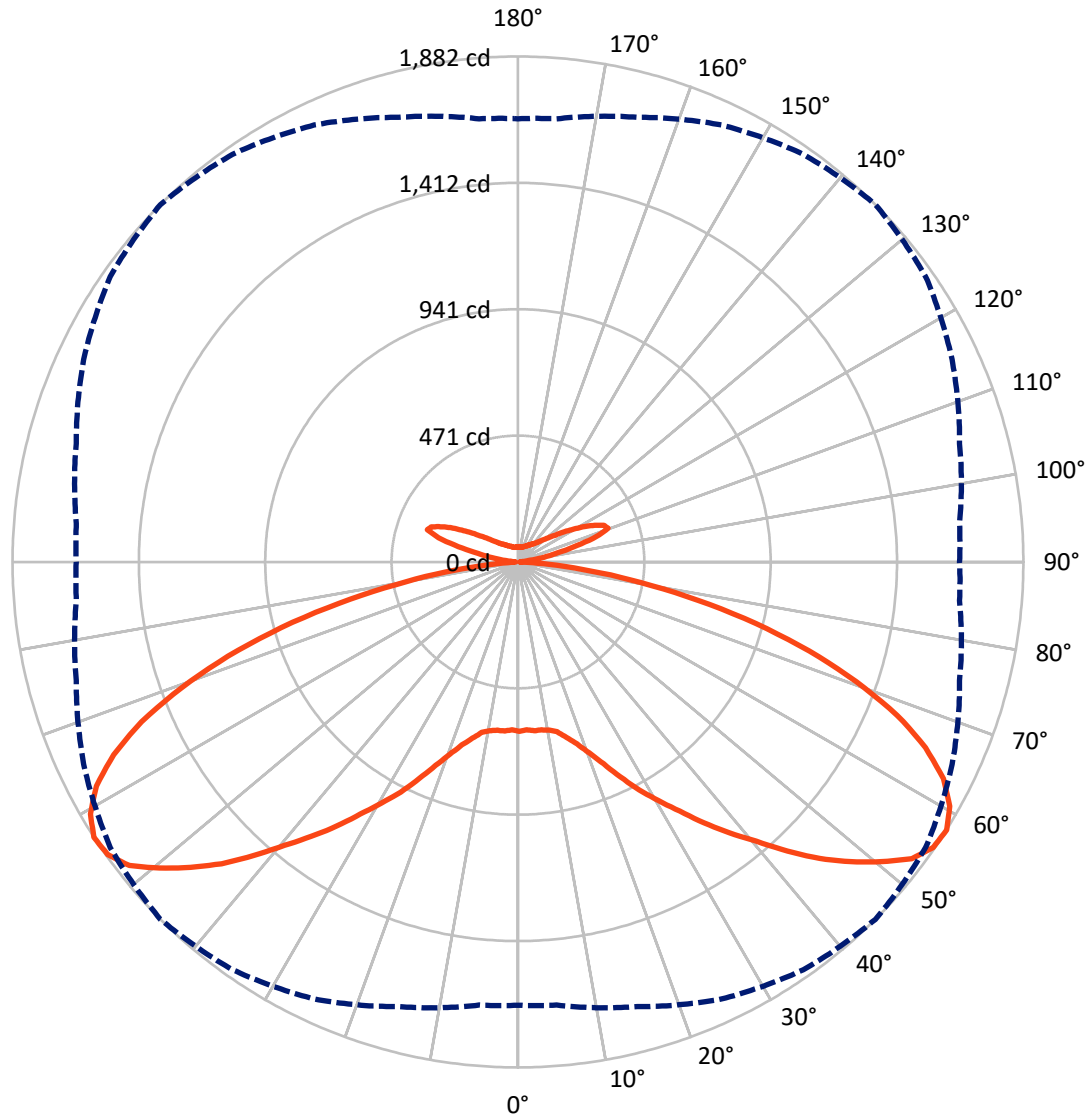
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P833934
CATALOG NUMBER: TTN-D3-740-U-WQ-CG-UPL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P833934
 CATALOG NUMBER: TTN-D3-740-U-WQ-CG-UPL3

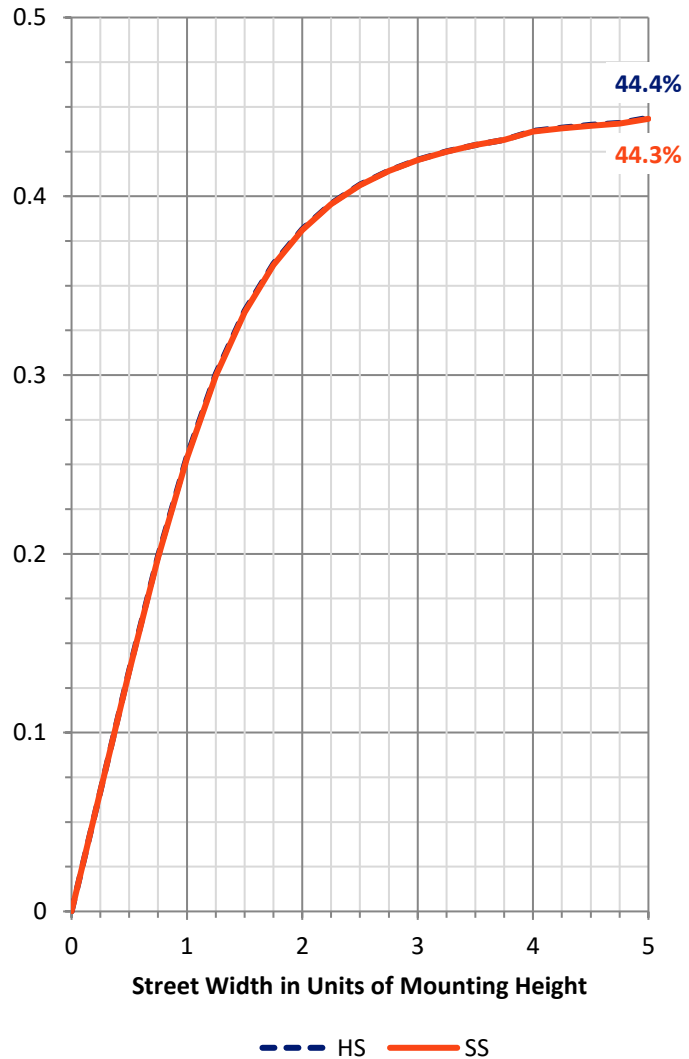
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3341.6	405.8	3747.3
	% Fixture	44.6	5.4	50.0
Street Side	Lumens	3341.6	405.8	3747.3
	% Fixture	44.6	5.4	50.0
Total	Lumens	6683.1	811.5	7494.6
	% Fixture	89.2	10.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	0.8
10°-20°	194.6	2.6
20°-30°	409.5	5.5
30°-40°	738.2	9.8
40°-50°	1173.5	15.7
50°-60°	1565.7	20.9
60°-70°	1512.7	20.2
70°-80°	876.6	11.7
80°-90°	152.2	2.0
90°-100°	18.1	0.2
100°-110°	184.1	2.5
110°-120°	269.1	3.6
120°-130°	156.2	2.1
130°-140°	82.7	1.1
140°-150°	49.1	0.7
150°-160°	30.3	0.4
160°-170°	16.5	0.2
170°-180°	5.4	0.1
0°-90°	6683.1	89.2
0°-180°	7494.6	100.0



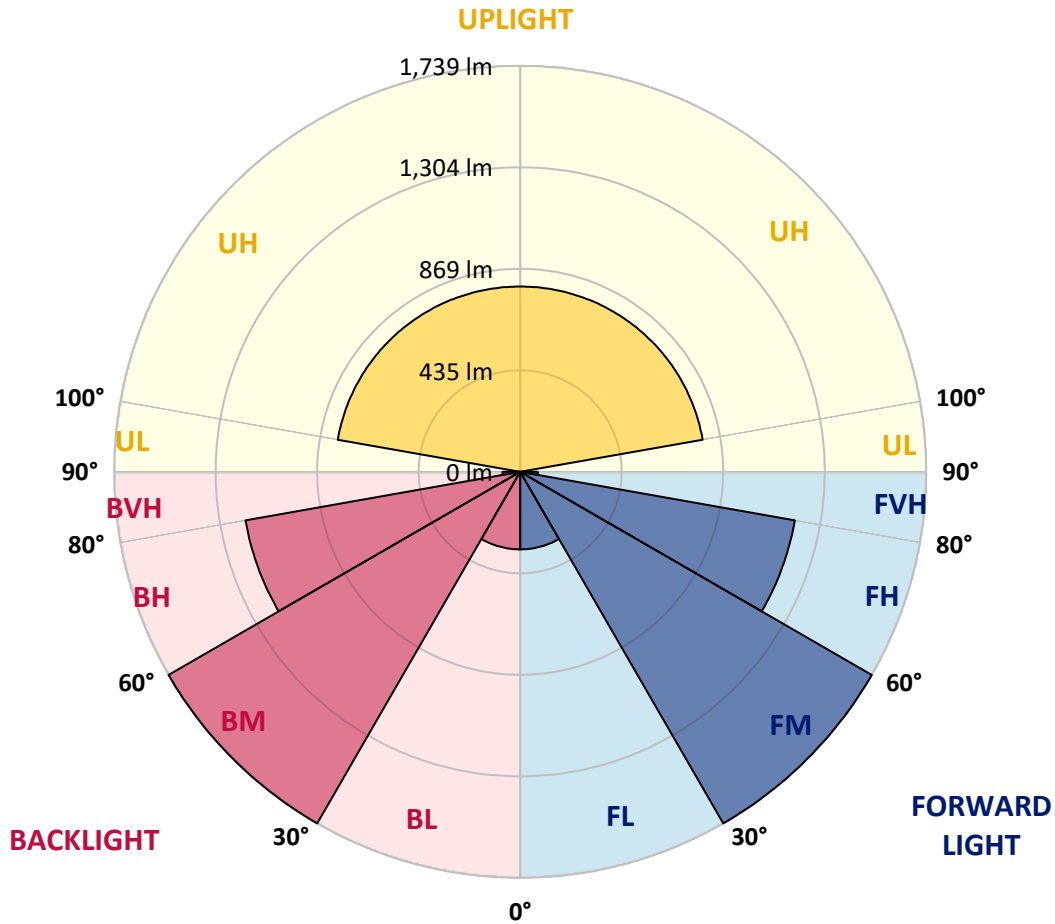
REPORT NUMBER: P833934
 CATALOG NUMBER: TTN-D3-740-U-WQ-CG-UPL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.2	4.4			
FM (30°-60°)	1738.7	23.2			
FH (60°-80°)	1194.6	15.9			G1/1800
FVH (80°-90°)	76.1	1.0			G1/100
BL (0°-30°)	332.2	4.4	B1/500		
BM (30°-60°)	1738.7	23.2	B2/2500		
BH (60°-80°)	1194.6	15.9	B3/2500		G1/1800
BVH (80°-90°)	76.1	1.0			G1/100
UL (90°-100°)	18.1	0.2		U2/50	
UH (100°-180°)	793.4	10.6		U4/1000	

BUG Rating: B3-U4-G1

Type V Short





REPORT NUMBER: P833934

CATALOG NUMBER: TTN-D3-740-U-WQ-CG-UPL3

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°	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



REPORT NUMBER: P833934

CATALOG NUMBER: TTN-D3-740-U-WQ-CG-UPL3

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)