

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: P833940

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833940
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-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7847.6 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

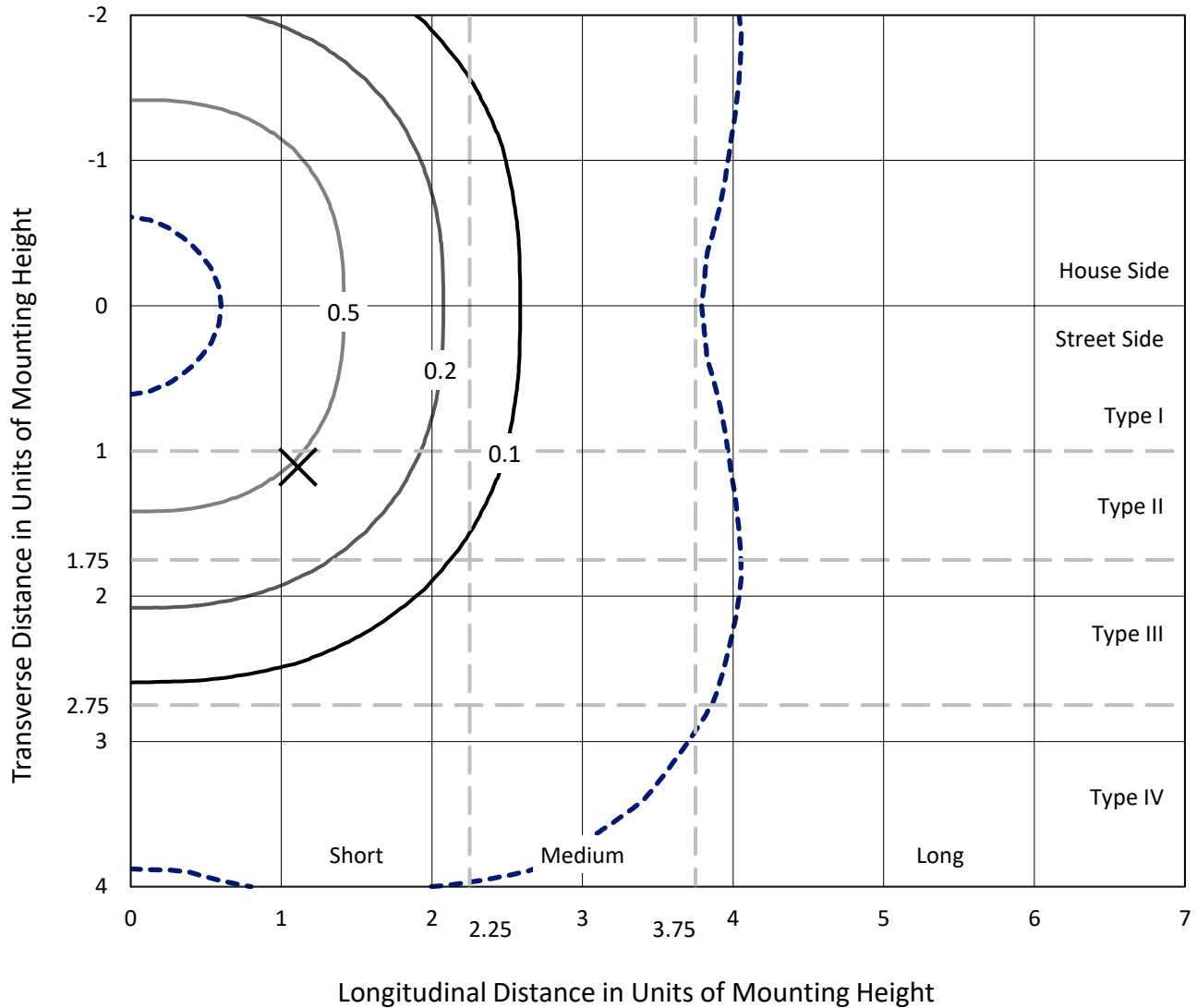
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

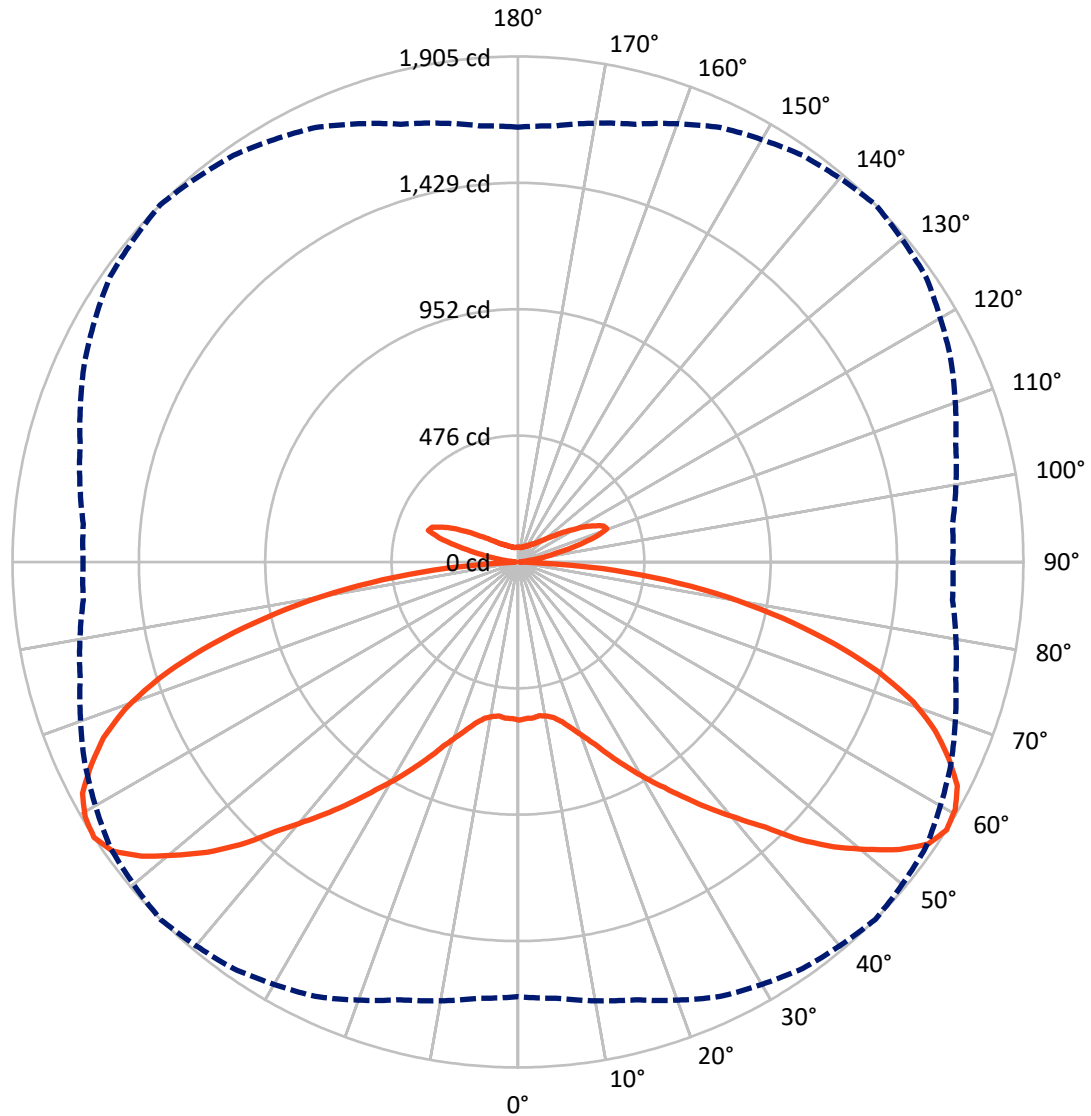
✕ Max cd
 - - - 1/2 Max cd



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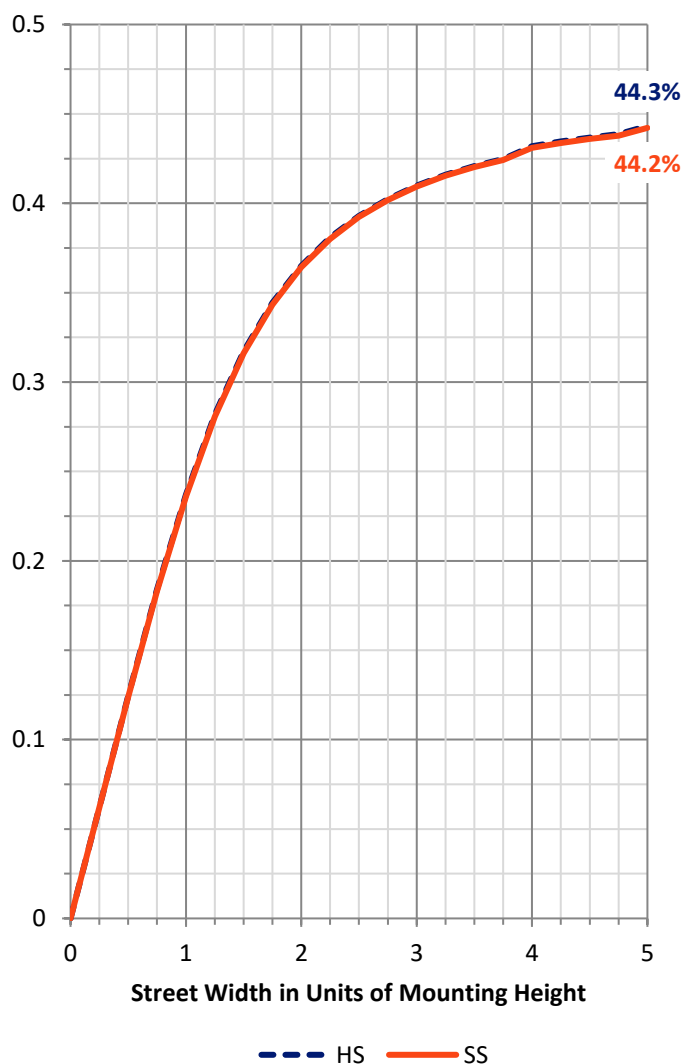
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3518.1	405.8	3923.8
	% Fixture	44.8	5.2	50.0
Street Side	Lumens	3518.1	405.8	3923.8
	% Fixture	44.8	5.2	50.0
Total	Lumens	7036.1	811.5	7847.6
	% Fixture	89.7	10.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.7
10°-20°	178.9	2.3
20°-30°	375.3	4.8
30°-40°	680.9	8.7
40°-50°	1109.9	14.1
50°-60°	1553.6	19.8
60°-70°	1621.9	20.7
70°-80°	1158.8	14.8
80°-90°	300.9	3.8
90°-100°	18.1	0.2
100°-110°	184.1	2.3
110°-120°	269.1	3.4
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°	7036.1	89.7
0°-180°	7847.6	100.0

Coefficient of Utilization

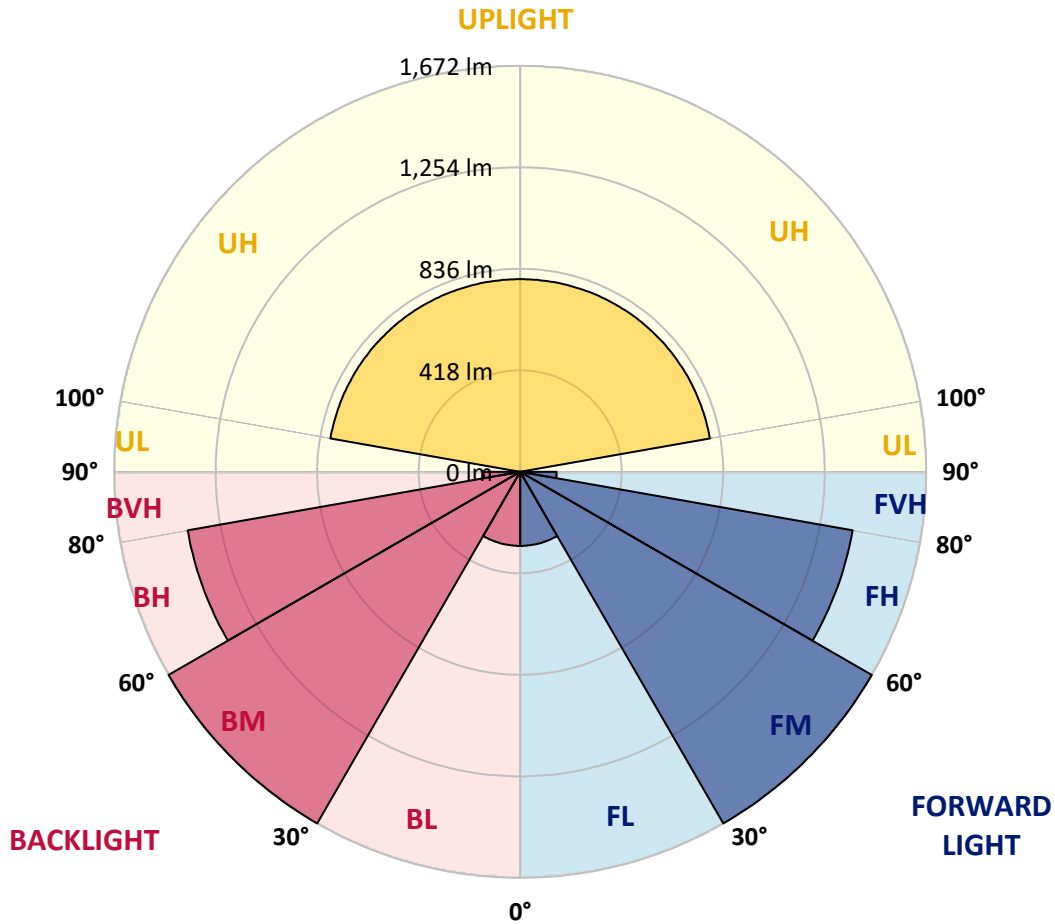


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.1	3.9			
FM (30°-60°)	1672.2	21.3			
FH (60°-80°)	1390.3	17.7			G1/1800
FVH (80°-90°)	150.5	1.9			G2/225
BL (0°-30°)	305.1	3.9	B1/500		
BM (30°-60°)	1672.2	21.3	B2/2500		
BH (60°-80°)	1390.3	17.7	B3/2500		G1/1800
BVH (80°-90°)	150.5	1.9			G2/225
UL (90°-100°)	18.1	0.2		U2/50	
UH (100°-180°)	793.4	10.1		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°	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)