

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: P833223

Luminaire Tested: **TTN-D1-750-U-CQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833223
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-D1-750-U-CQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4192.6 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

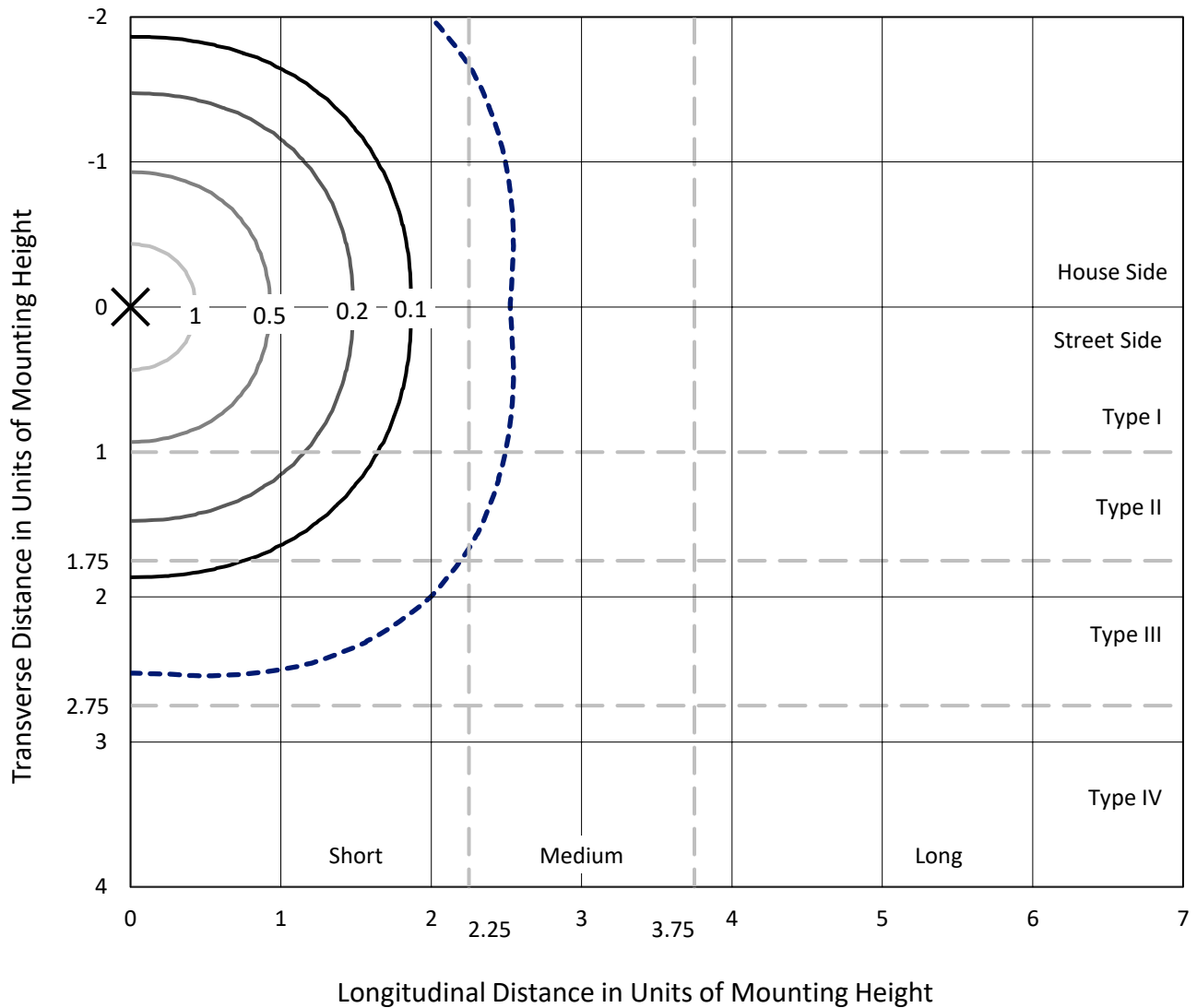
Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

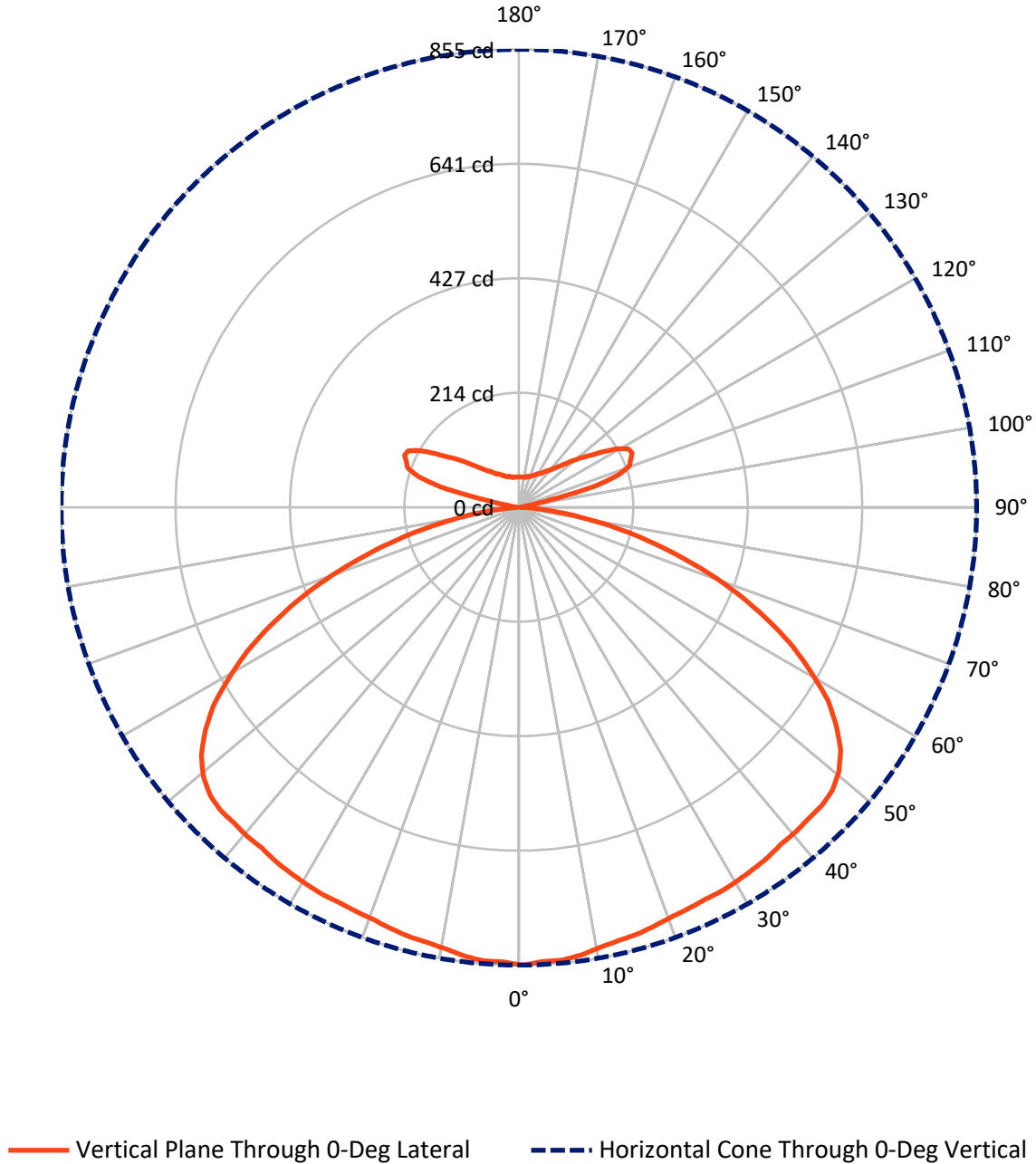
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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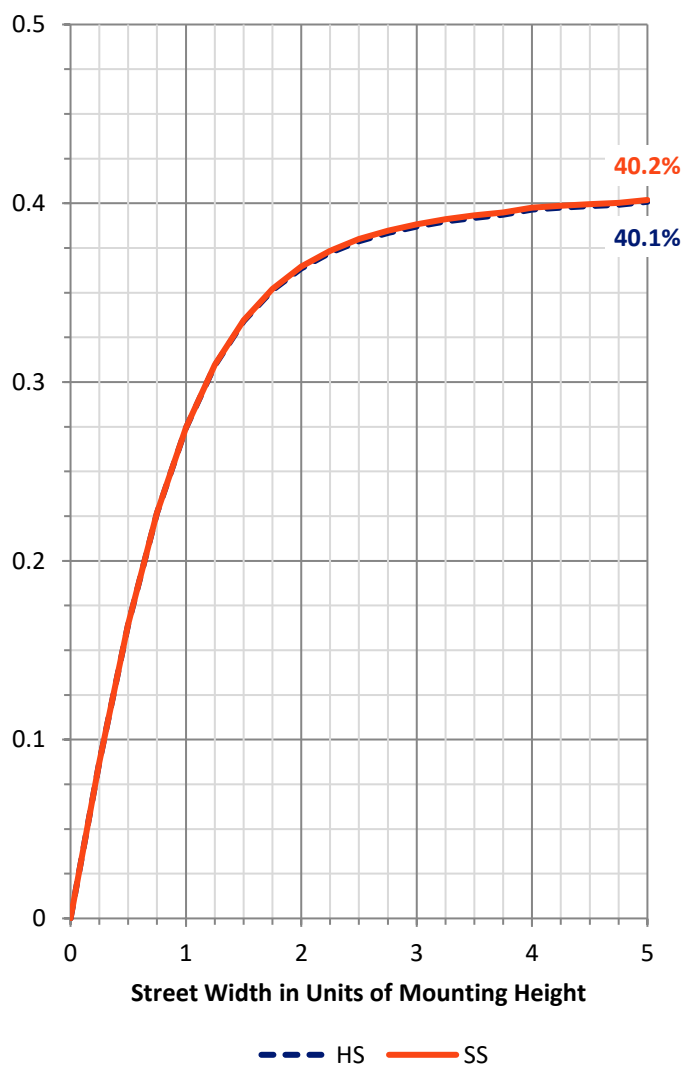
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1690.5	405.8	2096.3
	% Fixture	40.3	9.7	50.0
Street Side	Lumens	1690.5	405.8	2096.3
	% Fixture	40.3	9.7	50.0
Total	Lumens	3381.1	811.5	4192.6
	% Fixture	80.6	19.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.9
10°-20°	234.0	5.6
20°-30°	376.8	9.0
30°-40°	506.8	12.1
40°-50°	625.3	14.9
50°-60°	670.9	16.0
60°-70°	544.0	13.0
70°-80°	288.3	6.9
80°-90°	54.4	1.3
90°-100°	18.1	0.4
100°-110°	184.1	4.4
110°-120°	269.1	6.4
120°-130°	156.2	3.7
130°-140°	82.7	2.0
140°-150°	49.1	1.2
150°-160°	30.3	0.7
160°-170°	16.5	0.4
170°-180°	5.4	0.1
0°-90°	3381.1	80.6
0°-180°	4192.6	100.0

Coefficient of Utilization



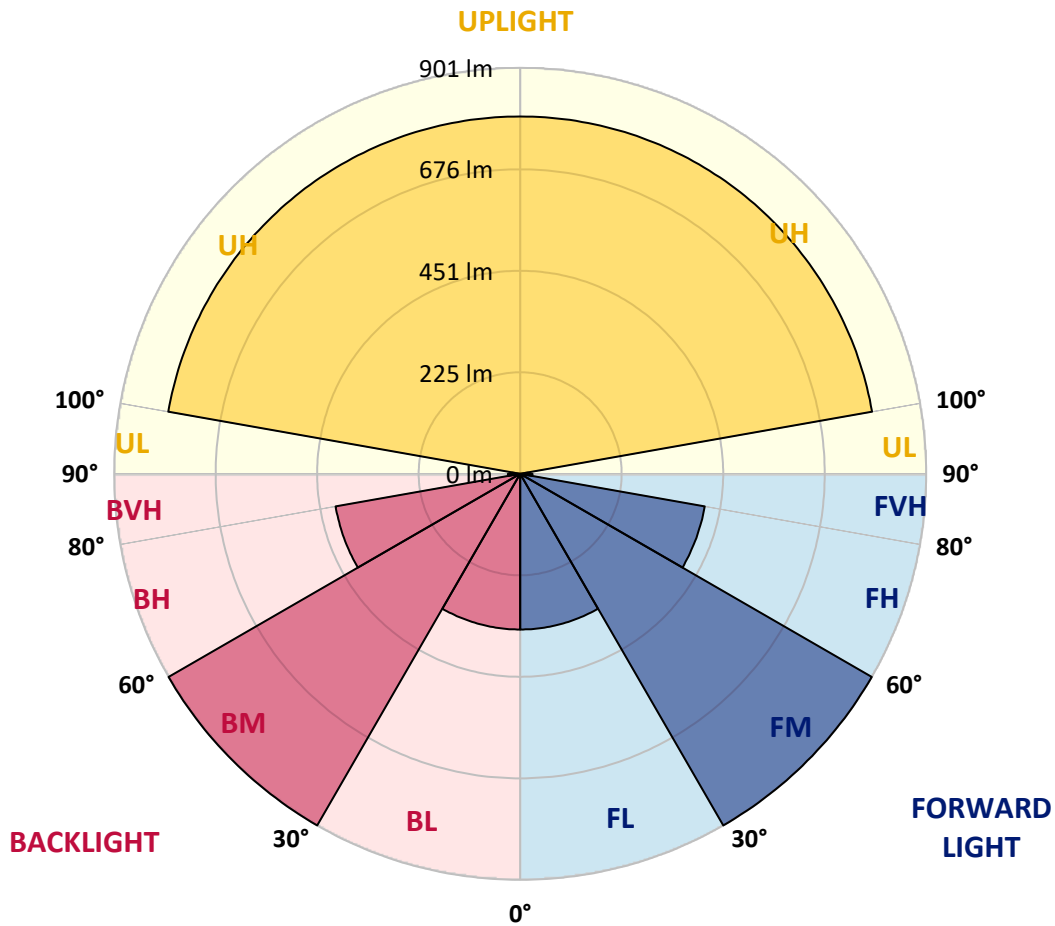
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.7	8.2			
FM (30°-60°)	901.5	21.5			
FH (60°-80°)	416.2	9.9			G0/660
FVH (80°-90°)	27.2	0.6			G1/100
BL (0°-30°)	345.7	8.2	B1/500		
BM (30°-60°)	901.5	21.5	B1/1000		
BH (60°-80°)	416.2	9.9	B1/500		G0/660
BVH (80°-90°)	27.2	0.6			G1/100
UL (90°-100°)	18.1	0.4		U2/50	
UH (100°-180°)	793.4	18.9		U4/1000	

BUG Rating: B1-U4-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	854.7	854.7	854.7	854.7	854.7	854.7	854.7	854.7	854.7	854.7	854.7
2.5°	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	849.1	851.9
5°	849.1	849.1	849.1	849.1	846.4	849.1	849.1	849.1	849.1	849.1	849.1
7.5°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
10°	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3
12.5°	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8	829.8
15°	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	824.3	824.3
17.5°	821.5	821.5	821.5	821.5	824.3	824.3	824.3	821.5	821.5	821.5	821.5
20°	816.0	816.0	816.0	818.7	818.7	818.7	818.7	818.7	816.0	816.0	816.0
22.5°	813.2	813.2	813.2	813.2	816.0	816.0	816.0	816.0	813.2	813.2	813.2
25°	810.4	810.4	813.2	813.2	816.0	816.0	816.0	813.2	813.2	810.4	810.4
27.5°	810.4	810.4	813.2	813.2	816.0	816.0	816.0	816.0	813.2	810.4	810.4
30°	807.7	810.4	810.4	813.2	816.0	816.0	816.0	813.2	810.4	807.7	807.7
32.5°	804.9	804.9	807.7	810.4	813.2	813.2	813.2	810.4	807.7	804.9	802.1
35°	802.1	802.1	802.1	807.7	810.4	810.4	810.4	807.7	802.1	799.4	799.4
37.5°	796.6	799.4	802.1	804.9	810.4	810.4	810.4	804.9	799.4	796.6	793.8
40°	796.6	796.6	802.1	804.9	813.2	813.2	810.4	804.9	799.4	793.8	791.1
42.5°	793.8	796.6	802.1	810.4	818.7	818.7	816.0	807.7	799.4	793.8	791.1
45°	793.8	793.8	802.1	813.2	824.3	827.0	821.5	813.2	802.1	791.1	791.1
47.5°	788.3	788.3	799.4	813.2	827.0	829.8	827.0	813.2	799.4	791.1	788.3
50°	774.5	774.5	788.3	804.9	821.5	827.0	821.5	810.4	791.1	780.0	777.2
52.5°	752.3	752.3	766.2	788.3	804.9	813.2	807.7	793.8	774.5	757.9	755.1
55°	719.1	721.9	735.7	760.6	780.0	788.3	782.8	766.2	744.0	727.4	721.9
57.5°	680.4	680.4	699.8	724.7	744.0	752.3	746.8	730.2	705.3	688.7	683.2
60°	627.9	630.6	647.2	680.4	699.8	708.1	702.6	683.2	655.5	636.2	630.6
62.5°	575.3	578.1	594.7	622.3	644.5	650.0	644.5	625.1	600.2	580.9	575.3
65°	514.5	517.2	536.6	561.5	578.1	586.4	578.1	561.5	539.4	520.0	517.2
67.5°	450.9	453.6	473.0	495.1	511.7	517.2	508.9	495.1	473.0	456.4	450.9
70°	384.5	387.2	403.8	423.2	437.0	442.6	437.0	420.4	403.8	387.2	384.5
72.5°	315.3	318.1	334.7	351.3	362.3	367.9	359.6	348.5	331.9	318.1	315.3
75°	248.9	248.9	262.8	276.6	287.7	290.4	284.9	276.6	262.8	251.7	246.2
77.5°	185.3	185.3	199.1	207.4	213.0	218.5	213.0	204.7	196.4	185.3	185.3
80°	124.5	124.5	135.5	141.1	146.6	149.4	146.6	141.1	135.5	127.2	124.5
82.5°	74.7	74.7	80.2	85.7	85.7	88.5	88.5	85.7	80.2	74.7	74.7
85°	33.2	30.4	36.0	38.7	38.7	41.5	41.5	38.7	36.0	33.2	33.2
87.5°	2.8	5.5	5.5	8.3	8.3	8.3	8.3	8.3	5.5	5.5	5.5
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)