

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: P833202

Luminaire Tested: **TTN-D1-740-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833202
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-D1-740-U-MQ-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4220.6 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

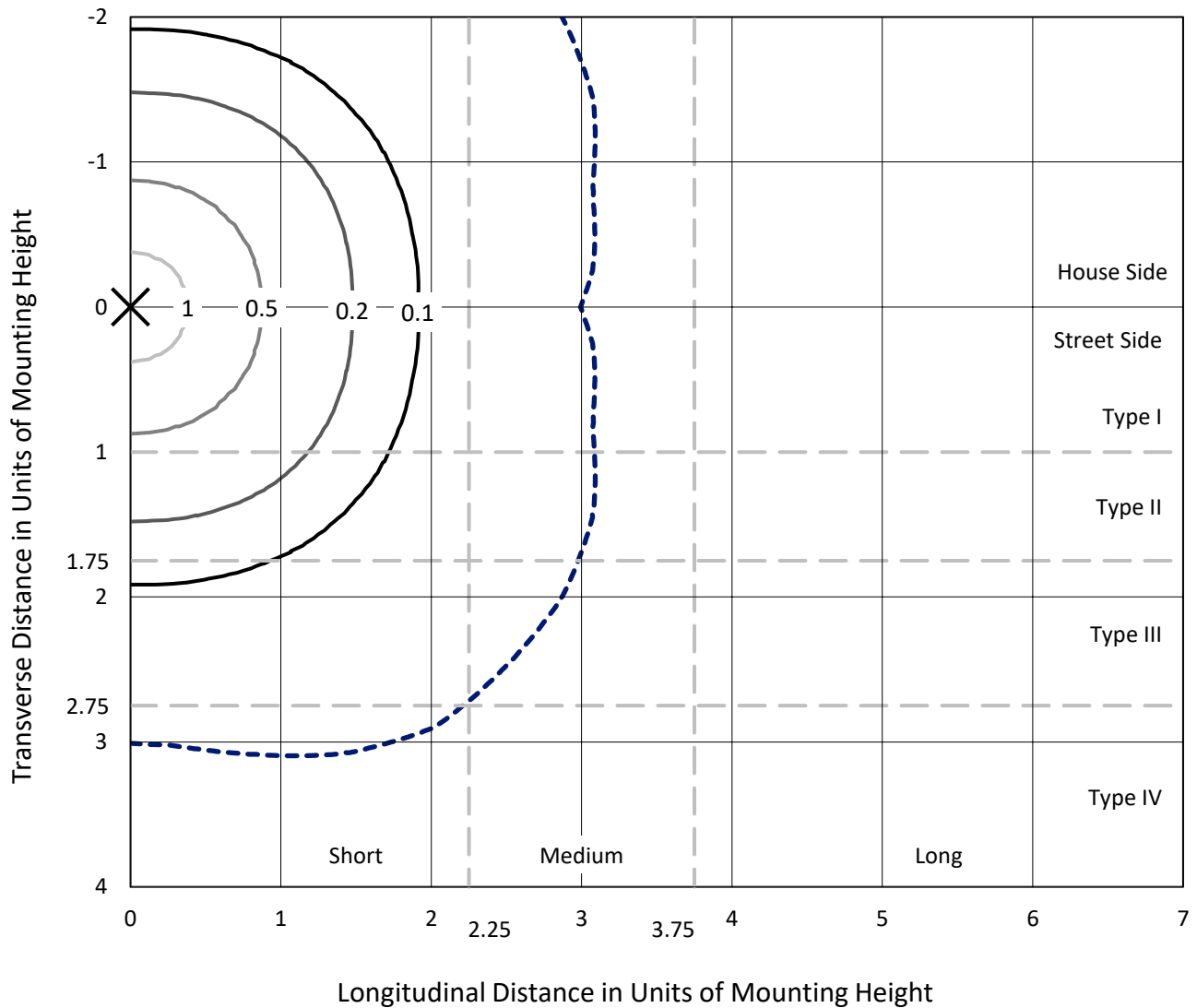
Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

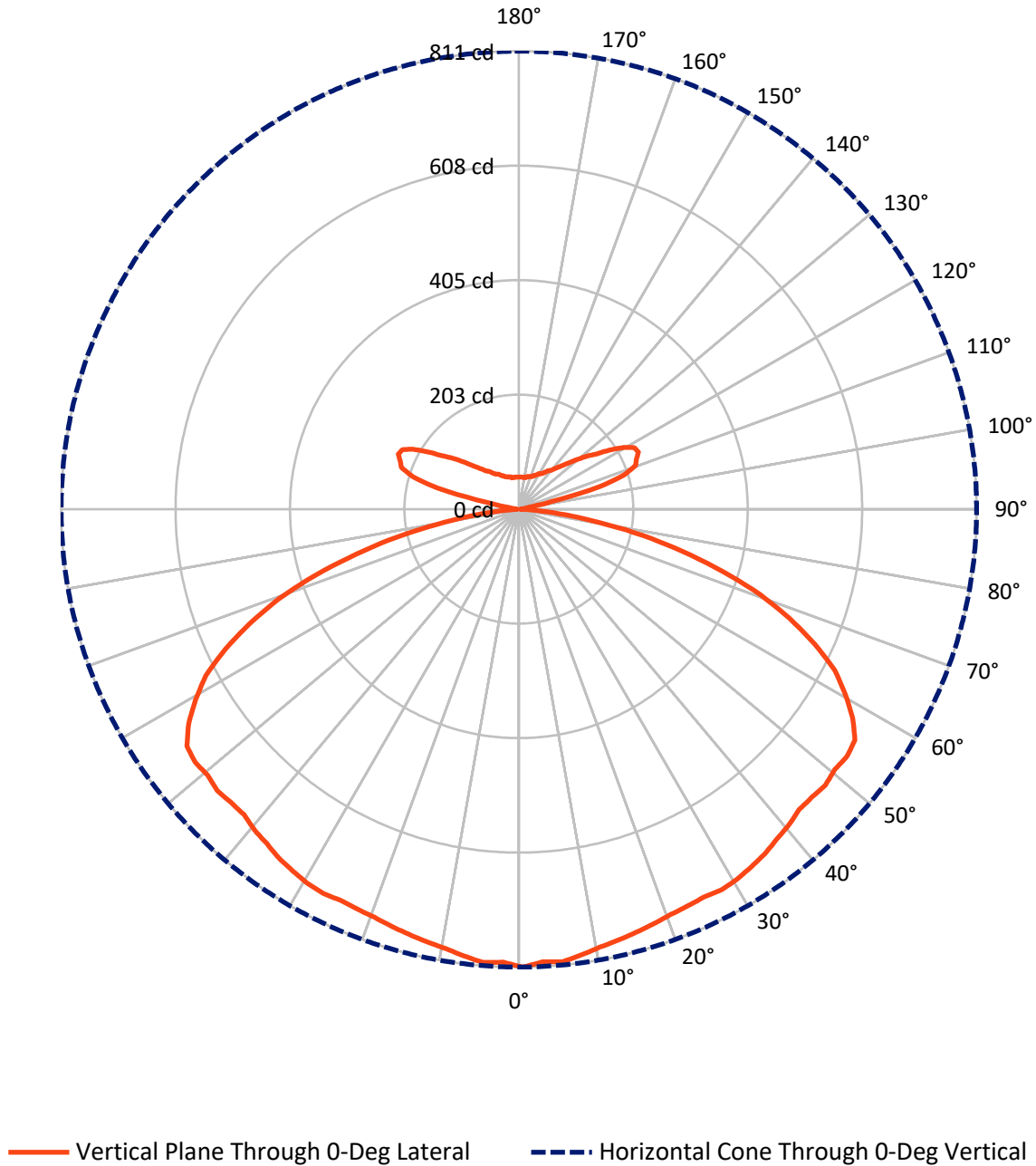
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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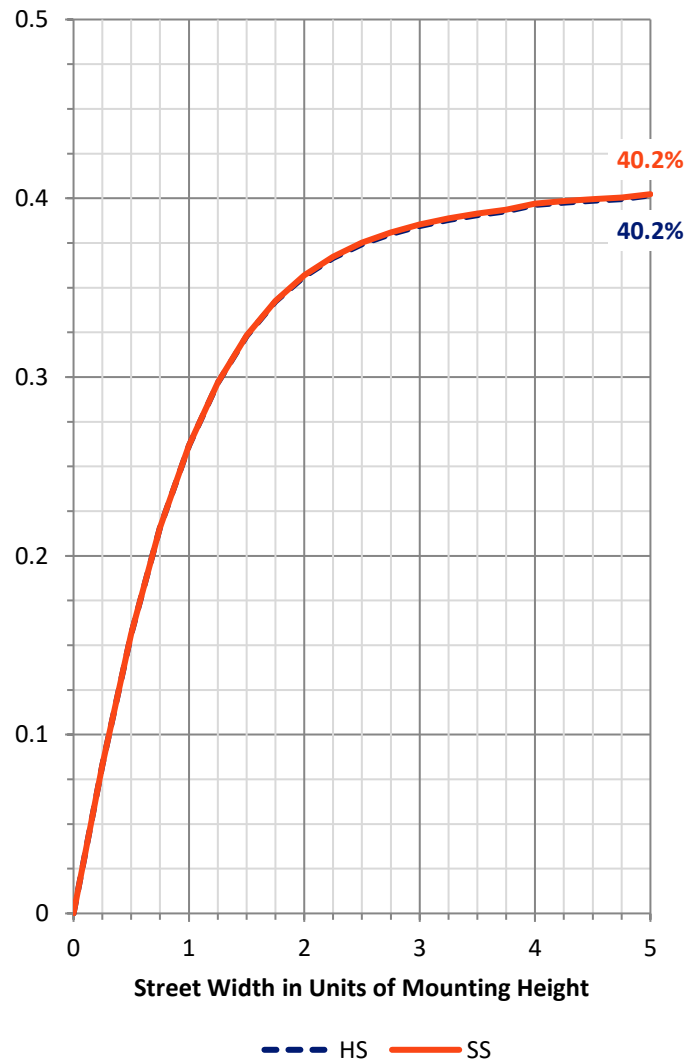
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.5	405.8	2110.3
	% Fixture	40.4	9.6	50.0
Street Side	Lumens	1704.5	405.8	2110.3
	% Fixture	40.4	9.6	50.0
Total	Lumens	3409.1	811.5	4220.6
	% Fixture	80.8	19.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	1.8
10°-20°	220.3	5.2
20°-30°	354.3	8.4
30°-40°	473.3	11.2
40°-50°	575.1	13.6
50°-60°	668.2	15.8
60°-70°	616.5	14.6
70°-80°	360.9	8.6
80°-90°	64.3	1.5
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°	3409.1	80.8
0°-180°	4220.6	100.0

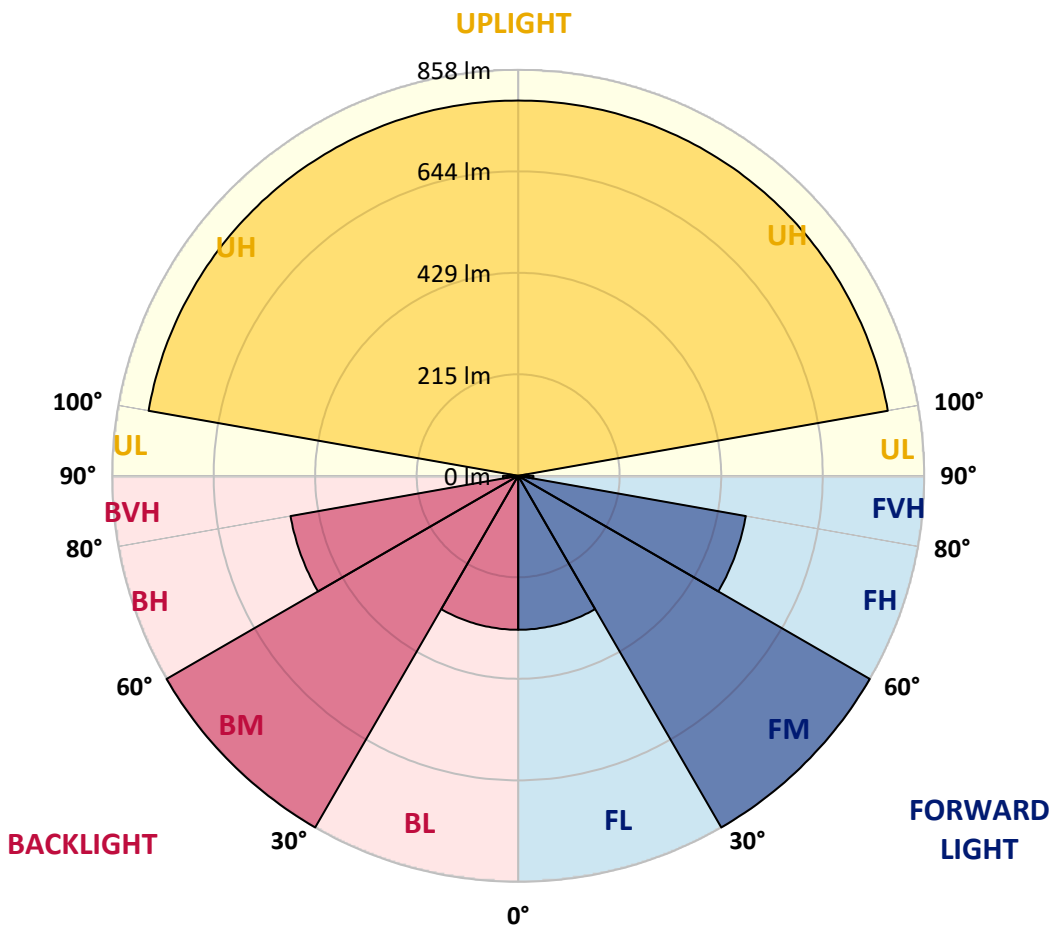


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.4	7.7			
FM (30°-60°)	858.3	20.3			
FH (60°-80°)	488.7	11.6			G0/660
FVH (80°-90°)	32.2	0.8			G1/100
BL (0°-30°)	325.4	7.7	B1/500		
BM (30°-60°)	858.3	20.3	B1/1000		
BH (60°-80°)	488.7	11.6	B1/500		G0/660
BVH (80°-90°)	32.2	0.8			G1/100
UL (90°-100°)	18.1	0.4		U2/50	
UH (100°-180°)	793.4	18.8		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°	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8
2.5°	802.5	805.2	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	805.2
5°	805.2	805.2	805.2	805.2	802.5	802.5	802.5	802.5	802.5	805.2	805.2
7.5°	796.9	796.9	796.9	796.9	796.9	794.2	796.9	796.9	796.9	796.9	796.9
10°	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6
12.5°	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	780.3	780.3
15°	777.6	777.6	777.6	777.6	780.3	780.3	777.6	777.6	777.6	777.6	777.6
17.5°	772.0	772.0	772.0	772.0	774.8	774.8	774.8	772.0	772.0	772.0	772.0
20°	766.5	766.5	766.5	766.5	769.3	769.3	769.3	769.3	769.3	766.5	766.5
22.5°	763.7	763.7	763.7	763.7	766.5	766.5	766.5	766.5	763.7	763.7	763.7
25°	760.9	763.7	763.7	763.7	766.5	769.3	769.3	766.5	763.7	760.9	760.9
27.5°	763.7	763.7	763.7	766.5	766.5	769.3	769.3	766.5	763.7	763.7	763.7
30°	760.9	760.9	760.9	763.7	766.5	769.3	766.5	766.5	763.7	760.9	760.9
32.5°	755.4	755.4	758.2	760.9	763.7	763.7	763.7	760.9	758.2	755.4	755.4
35°	749.9	749.9	749.9	752.6	758.2	758.2	758.2	755.4	752.6	749.9	747.1
37.5°	741.6	744.3	744.3	749.9	752.6	755.4	752.6	749.9	744.3	741.6	741.6
40°	736.0	736.0	738.8	744.3	749.9	749.9	747.1	744.3	738.8	736.0	736.0
42.5°	727.7	727.7	733.3	738.8	747.1	747.1	744.3	738.8	733.3	727.7	727.7
45°	727.7	727.7	733.3	744.3	749.9	755.4	749.9	744.3	733.3	727.7	725.0
47.5°	730.5	730.5	736.0	749.9	760.9	766.5	758.2	747.1	736.0	730.5	727.7
50°	725.0	727.7	738.8	752.6	766.5	769.3	766.5	749.9	738.8	725.0	725.0
52.5°	727.7	727.7	741.6	763.7	777.6	783.1	777.6	763.7	738.8	725.0	725.0
55°	722.2	719.4	738.8	763.7	785.9	796.9	785.9	763.7	736.0	719.4	716.7
57.5°	697.3	697.3	722.2	747.1	774.8	780.3	772.0	747.1	719.4	697.3	691.8
60°	664.1	666.9	691.8	719.4	744.3	747.1	741.6	719.4	691.8	666.9	658.6
62.5°	628.1	633.7	658.6	686.2	716.7	722.2	713.9	686.2	653.0	636.4	622.6
65°	575.6	583.9	611.5	642.0	675.2	672.4	672.4	639.2	614.3	586.6	572.8
67.5°	517.4	525.7	545.1	586.6	614.3	611.5	608.8	586.6	545.1	525.7	517.4
70°	453.8	459.3	478.7	520.2	545.1	547.9	539.6	517.4	478.7	464.9	451.0
72.5°	379.1	381.9	409.5	442.7	467.6	464.9	462.1	442.7	406.8	392.9	376.3
75°	298.8	301.6	326.5	357.0	376.3	373.6	370.8	357.0	326.5	309.9	296.1
77.5°	224.1	221.4	246.3	268.4	279.5	282.2	276.7	265.6	243.5	229.7	221.4
80°	146.7	143.9	166.0	182.6	190.9	190.9	188.2	179.9	163.3	152.2	146.7
82.5°	83.0	80.2	94.1	105.1	113.5	110.7	107.9	102.4	94.1	85.8	80.2
85°	30.4	30.4	38.7	44.3	49.8	49.8	47.0	44.3	36.0	33.2	30.4
87.5°	2.8	2.8	5.5	8.3	8.3	8.3	5.5	5.5	2.8	2.8	2.8
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



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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)