

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: P832952

Luminaire Tested: **TTN-D0-830-U-CQ-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832952  
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-D0-830-U-CQ-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

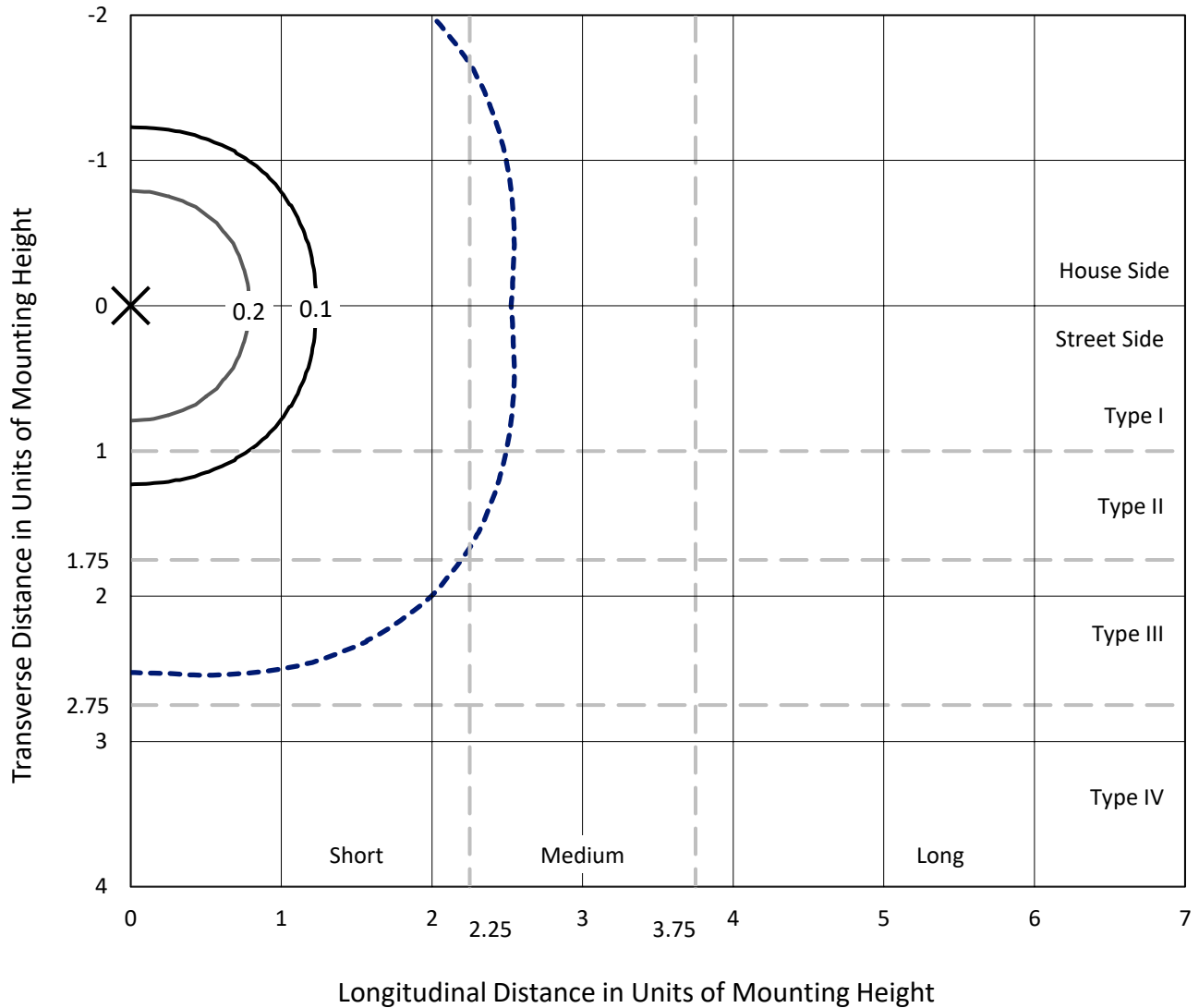
Lumens per Lamp: N/A  
Luminaire Lumens: 1629.7 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G0  
  
Input Watts (W): 15.2  
Input Voltage (V): NR  
Input Current (Ain): 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

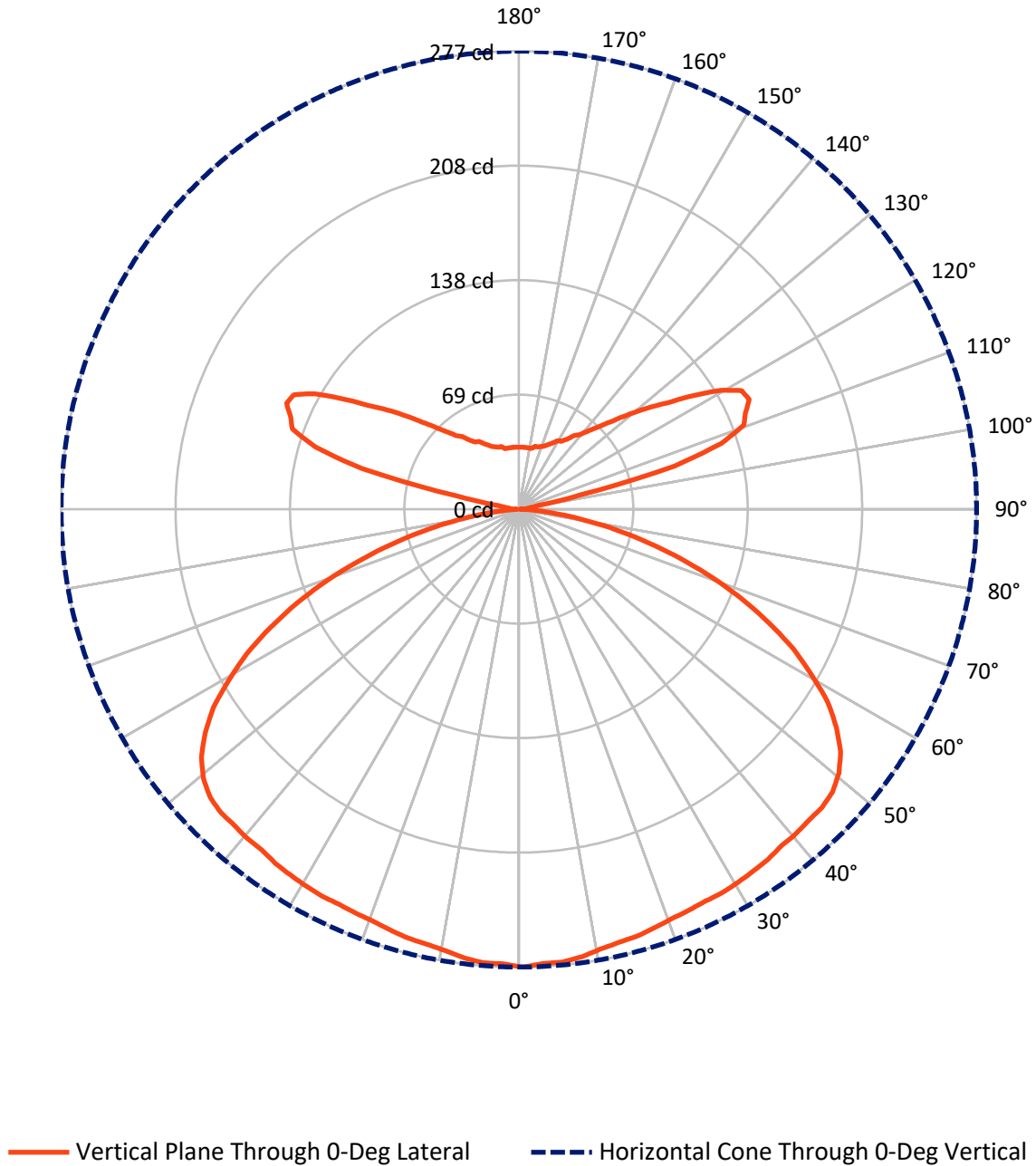
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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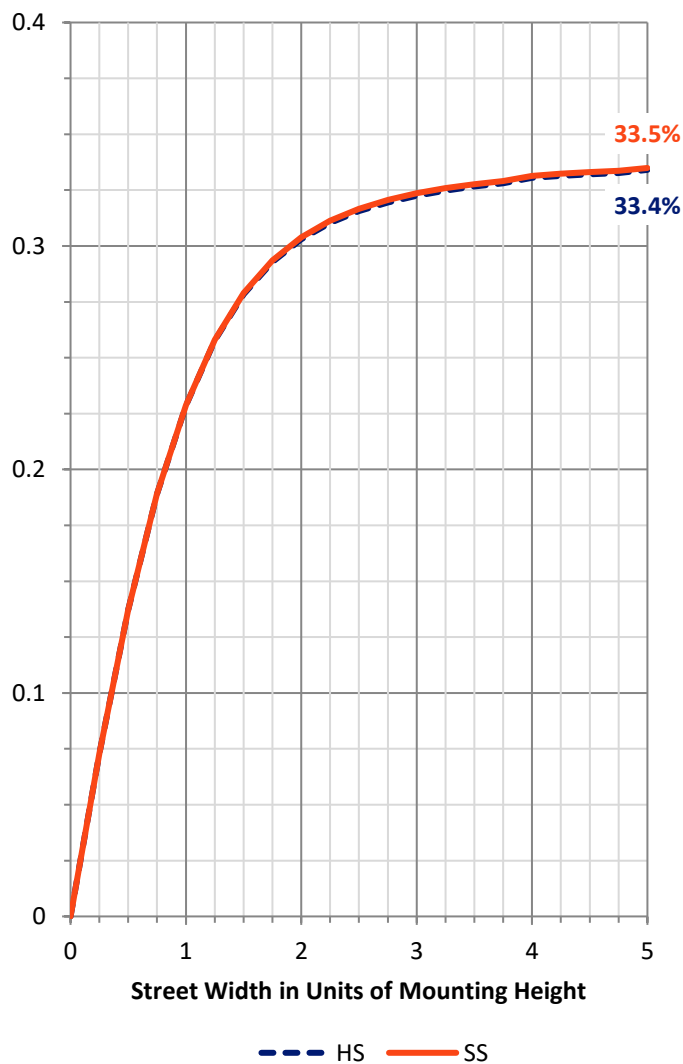
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	547.8	267.0	814.9
	% Fixture	33.6	16.4	50.0
<b>Street Side</b>	Lumens	547.8	267.0	814.9
	% Fixture	33.6	16.4	50.0
<b>Total</b>	Lumens	1095.7	534.0	1629.7
	% Fixture	67.2	32.8	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.1	1.6
10°-20°	75.8	4.7
20°-30°	122.1	7.5
30°-40°	164.2	10.1
40°-50°	202.6	12.4
50°-60°	217.3	13.3
60°-70°	176.2	10.8
70°-80°	93.4	5.7
80°-90°	18.0	1.1
90°-100°	11.9	0.7
100°-110°	121.1	7.4
110°-120°	177.1	10.9
120°-130°	102.8	6.3
130°-140°	54.4	3.3
140°-150°	32.3	2.0
150°-160°	19.9	1.2
160°-170°	10.9	0.7
170°-180°	3.5	0.2
0°-90°	1095.7	67.2
0°-180°	1629.7	100.0

**Coefficient of Utilization**



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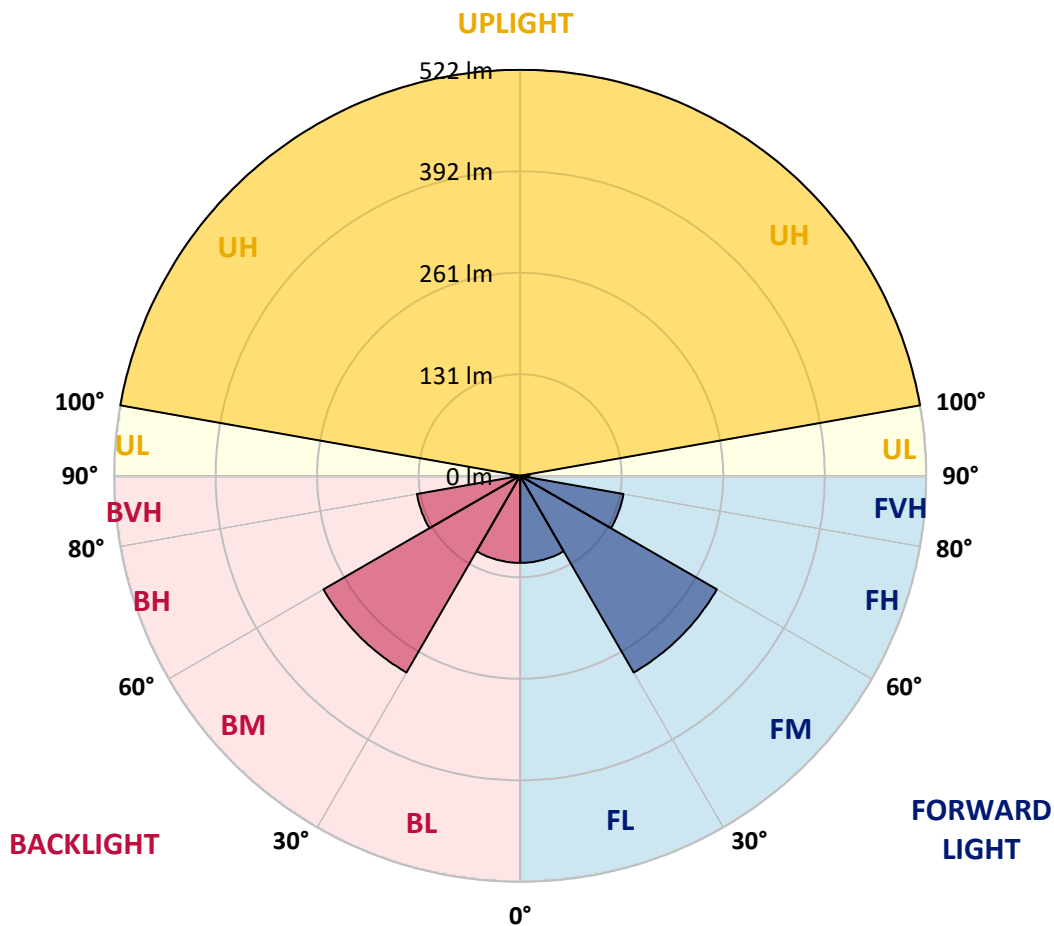
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.0	6.9			
FM (30°-60°)	292.0	17.9			
FH (60°-80°)	134.8	8.3			G0/660
FVH (80°-90°)	9.0	0.6			G0/10
BL (0°-30°)	112.0	6.9	B1/500		
BM (30°-60°)	292.0	17.9	B1/1000		
BH (60°-80°)	134.8	8.3	B1/500		G0/660
BVH (80°-90°)	9.0	0.6			G0/10
UL (90°-100°)	11.9	0.7		U2/50	
UH (100°-180°)	522.1	32.0		U4/1000	

**BUG Rating: B1-U4-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9
2.5°	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	275.1	276.0
5°	275.1	275.1	275.1	275.1	274.2	275.1	275.1	275.1	275.1	275.1	275.1
7.5°	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3	273.3
10°	270.6	270.6	270.6	270.6	270.6	270.6	270.6	270.6	270.6	270.6	270.6
12.5°	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8	268.8
15°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.0	267.0
17.5°	266.1	266.1	266.1	266.1	267.0	267.0	267.0	266.1	266.1	266.1	266.1
20°	264.3	264.3	264.3	265.2	265.2	265.2	265.2	265.2	264.3	264.3	264.3
22.5°	263.4	263.4	263.4	263.4	264.3	264.3	264.3	264.3	263.4	263.4	263.4
25°	262.5	262.5	263.4	263.4	264.3	264.3	264.3	263.4	263.4	262.5	262.5
27.5°	262.5	262.5	263.4	263.4	264.3	264.3	264.3	264.3	263.4	262.5	262.5
30°	261.7	262.5	262.5	263.4	264.3	264.3	264.3	263.4	262.5	261.7	261.7
32.5°	260.8	260.8	261.7	262.5	263.4	263.4	263.4	262.5	261.7	260.8	259.9
35°	259.9	259.9	259.9	261.7	262.5	262.5	262.5	261.7	259.9	259.0	259.0
37.5°	258.1	259.0	259.9	260.8	262.5	262.5	262.5	260.8	259.0	258.1	257.2
40°	258.1	258.1	259.9	260.8	263.4	263.4	262.5	260.8	259.0	257.2	256.3
42.5°	257.2	258.1	259.9	262.5	265.2	265.2	264.3	261.7	259.0	257.2	256.3
45°	257.2	257.2	259.9	263.4	267.0	267.9	266.1	263.4	259.9	256.3	256.3
47.5°	255.4	255.4	259.0	263.4	267.9	268.8	267.9	263.4	259.0	256.3	255.4
50°	250.9	250.9	255.4	260.8	266.1	267.9	266.1	262.5	256.3	252.7	251.8
52.5°	243.7	243.7	248.2	255.4	260.8	263.4	261.7	257.2	250.9	245.5	244.6
55°	233.0	233.9	238.4	246.4	252.7	255.4	253.6	248.2	241.0	235.7	233.9
57.5°	220.4	220.4	226.7	234.8	241.0	243.7	241.9	236.6	228.5	223.1	221.3
60°	203.4	204.3	209.7	220.4	226.7	229.4	227.6	221.3	212.4	206.1	204.3
62.5°	186.4	187.3	192.7	201.6	208.8	210.6	208.8	202.5	194.4	188.2	186.4
65°	166.7	167.6	173.8	181.9	187.3	190.0	187.3	181.9	174.7	168.5	167.6
67.5°	146.1	147.0	153.2	160.4	165.8	167.6	164.9	160.4	153.2	147.9	146.1
70°	124.6	125.5	130.8	137.1	141.6	143.4	141.6	136.2	130.8	125.5	124.6
72.5°	102.2	103.0	108.4	113.8	117.4	119.2	116.5	112.9	107.5	103.0	102.2
75°	80.6	80.6	85.1	89.6	93.2	94.1	92.3	89.6	85.1	81.5	79.8
77.5°	60.0	60.0	64.5	67.2	69.0	70.8	69.0	66.3	63.6	60.0	60.0
80°	40.3	40.3	43.9	45.7	47.5	48.4	47.5	45.7	43.9	41.2	40.3
82.5°	24.2	24.2	26.0	27.8	27.8	28.7	28.7	27.8	26.0	24.2	24.2
85°	10.8	9.9	11.6	12.5	12.5	13.4	13.4	12.5	11.6	10.8	10.8
87.5°	0.9	1.8	1.8	2.7	2.7	2.7	2.7	2.7	1.8	1.8	1.8
90°	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6
92.5°	4.6	4.6	4.6	6.4	7.3	6.4	7.3	5.5	5.5	4.6	4.6
95°	5.5	5.5	6.4	8.2	10.1	11.0	11.0	6.4	6.4	5.5	5.5
97.5°	7.3	8.2	8.2	10.1	16.4	30.2	18.3	9.1	9.1	8.2	7.3
100°	11.9	12.8	12.8	22.8	48.4	64.9	46.6	23.8	17.4	12.8	12.8
102.5°	38.4	40.2	49.3	74.0	109.6	99.6	84.1	79.5	54.8	43.9	42.0
105°	97.8	96.8	104.2	123.3	153.5	150.8	138.9	126.1	108.7	100.5	100.5
107.5°	128.8	128.8	135.2	151.7	174.5	203.7	206.5	163.5	143.4	134.3	133.4
110°	145.3	145.3	150.8	164.5	194.6	235.7	233.9	201.9	177.3	165.4	163.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	148.9	149.8	157.1	178.2	211.1	229.3	221.1	208.3	197.4	188.2	186.4
115°	154.4	154.4	162.6	182.7	201.0	208.3	199.2	189.1	181.8	178.2	180.0
117.5°	152.6	155.3	157.1	168.1	180.0	185.5	180.9	167.2	161.7	159.9	157.1
120°	141.6	141.6	143.4	148.9	155.3	158.1	156.2	147.1	142.5	141.6	139.8
122.5°	126.1	127.0	126.1	128.8	133.4	136.1	134.3	127.0	125.2	125.2	123.3
125°	110.6	110.6	109.6	111.5	114.2	113.3	114.2	110.6	109.6	109.6	108.7
127.5°	99.6	98.7	96.8	97.8	98.7	98.7	99.6	95.9	96.8	97.8	96.8
130°	88.6	88.6	86.8	86.8	86.8	85.0	86.8	85.0	85.9	86.8	87.7
132.5°	78.6	78.6	75.8	74.9	74.9	74.9	75.8	74.9	76.7	78.6	78.6
135°	70.4	70.4	67.6	68.5	68.5	67.6	68.5	67.6	69.4	70.4	70.4
137.5°	64.0	64.0	62.1	62.1	62.1	61.2	62.1	62.1	63.0	64.9	65.8
140°	58.5	58.5	57.6	57.6	56.6	57.6	57.6	57.6	58.5	59.4	59.4
142.5°	55.7	54.8	53.9	53.0	53.9	53.9	53.9	53.0	53.9	55.7	55.7
145°	51.2	51.2	50.3	50.3	50.3	51.2	50.3	50.3	51.2	51.2	52.1
147.5°	48.4	48.4	47.5	48.4	48.4	48.4	48.4	47.5	48.4	48.4	49.3
150°	47.5	46.6	45.7	46.6	46.6	45.7	45.7	45.7	45.7	46.6	46.6
152.5°	44.8	44.8	43.9	44.8	43.9	43.9	43.9	43.9	43.9	44.8	45.7
155°	42.9	42.9	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
157.5°	41.1	42.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	42.0	42.0
160°	40.2	40.2	40.2	40.2	39.3	39.3	39.3	40.2	40.2	40.2	41.1
162.5°	39.3	39.3	39.3	39.3	38.4	38.4	38.4	38.4	39.3	39.3	40.2
165°	39.3	38.4	38.4	38.4	37.5	37.5	37.5	37.5	38.4	39.3	38.4
167.5°	37.5	37.5	37.5	37.5	37.5	36.5	36.5	37.5	37.5	37.5	38.4
170°	37.5	37.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	37.5
172.5°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	36.5	36.5	37.5	37.5
175°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	37.5	37.5	37.5	36.5
177.5°	37.5	37.5	37.5	37.5	36.5	37.5	37.5	37.5	37.5	37.5	37.5
180°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5

(END OF REPORT)