

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: P832961

Luminaire Tested: **TTN-D0-830-U-MQ-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832961
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-MQ-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1638.8 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

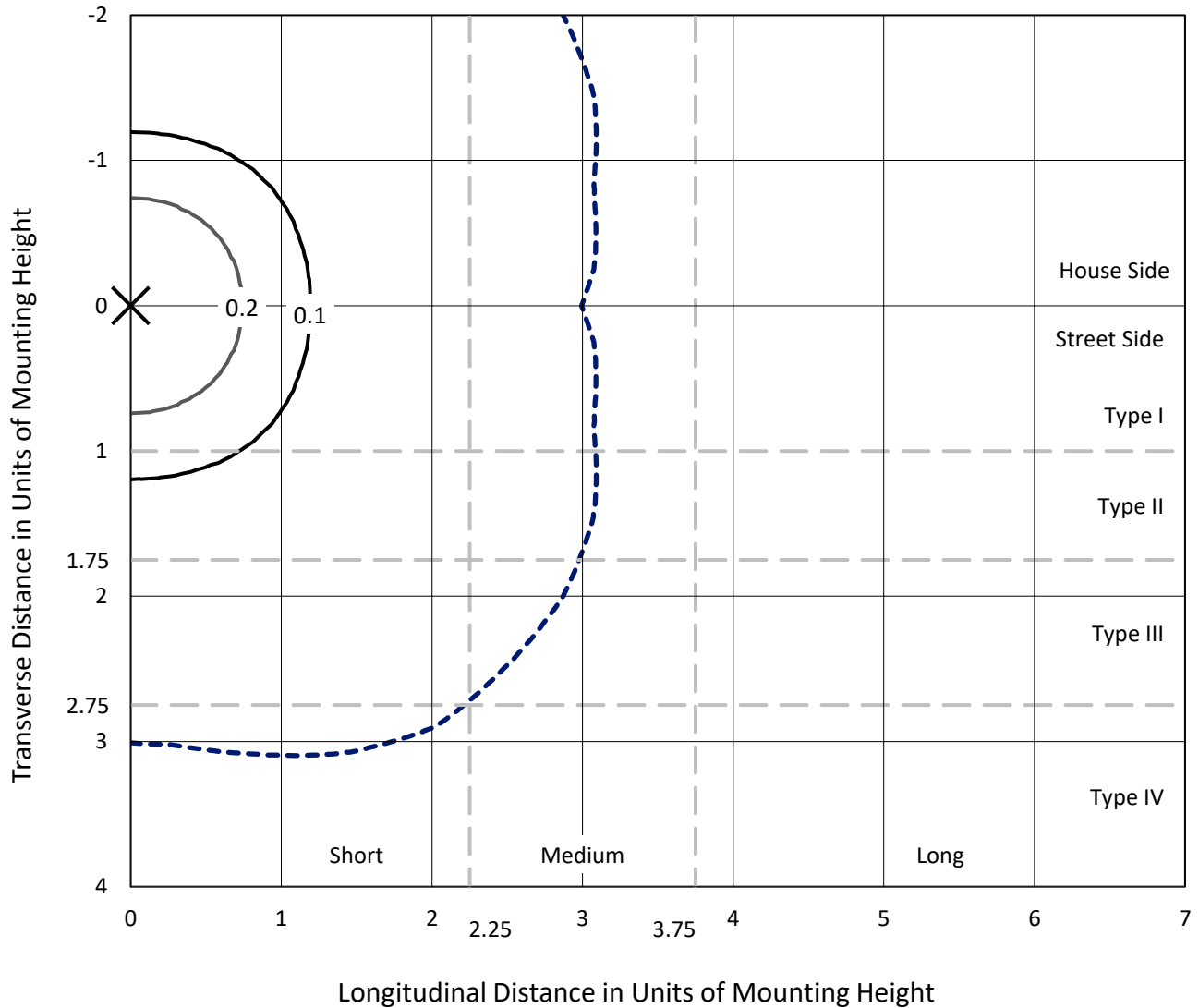
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

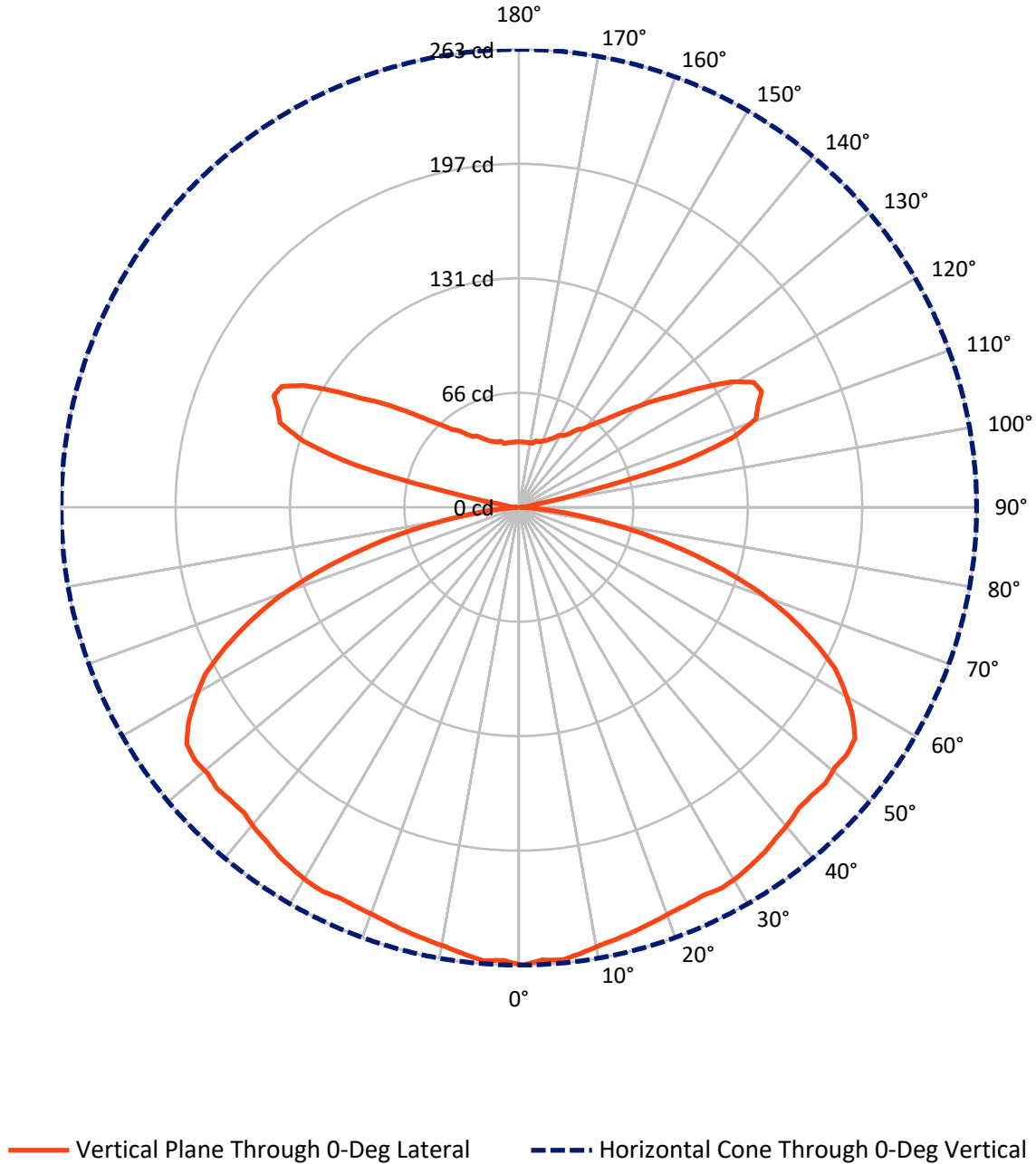
✕ Max cd
 - - - 1/2 Max cd



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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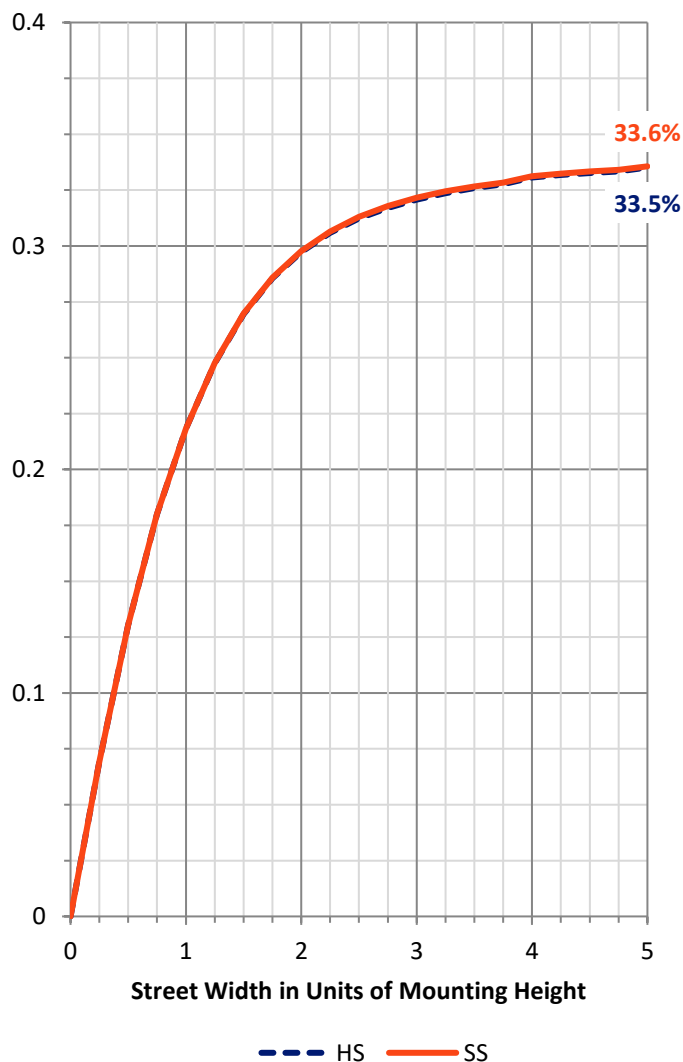
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.4	267.0	819.4
	% Fixture	33.7	16.3	50.0
Street Side	Lumens	552.4	267.0	819.4
	% Fixture	33.7	16.3	50.0
Total	Lumens	1104.7	534.0	1638.8
	% Fixture	67.4	32.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	1.5
10°-20°	71.4	4.4
20°-30°	114.8	7.0
30°-40°	153.3	9.4
40°-50°	186.3	11.4
50°-60°	216.5	13.2
60°-70°	199.7	12.2
70°-80°	116.9	7.1
80°-90°	21.2	1.3
90°-100°	11.9	0.7
100°-110°	121.1	7.4
110°-120°	177.1	10.8
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°	1104.7	67.4
0°-180°	1638.8	100.0

Coefficient of Utilization



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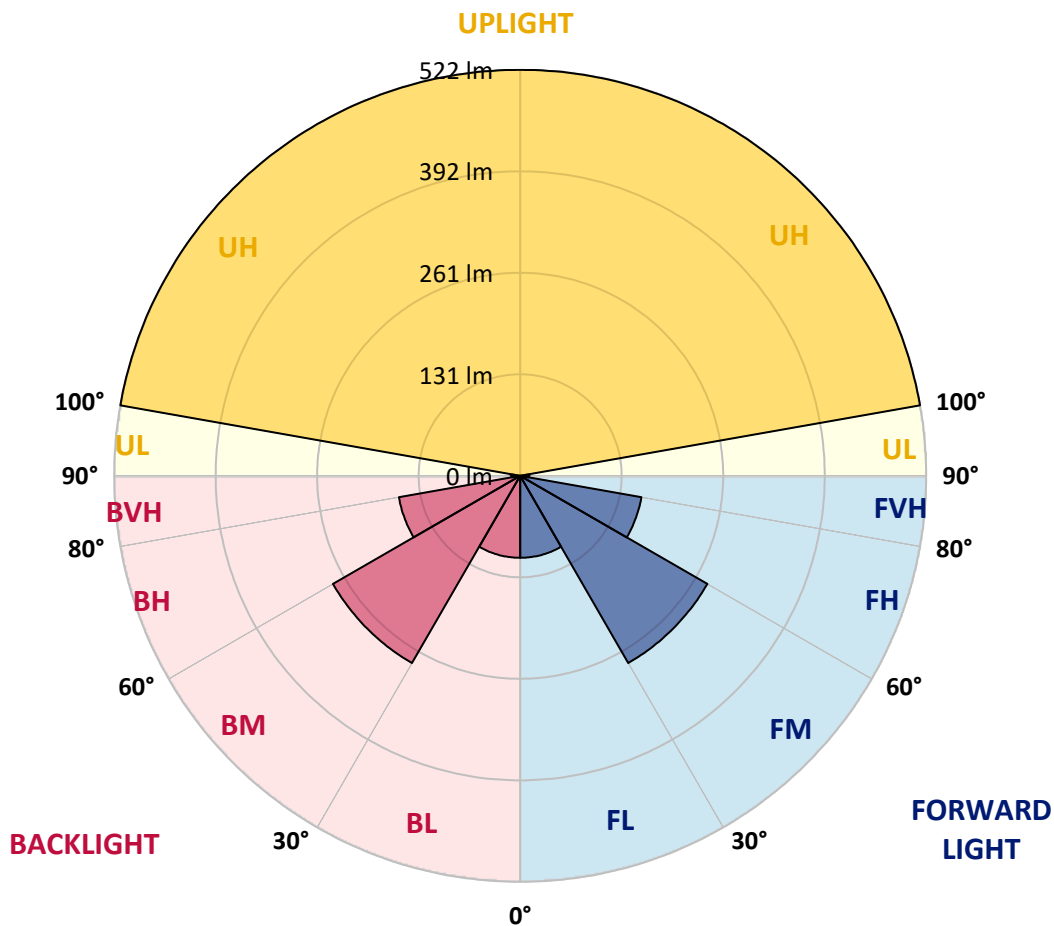
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.4	6.4			
FM (30°-60°)	278.0	17.0			
FH (60°-80°)	158.3	9.7			G0/660
FVH (80°-90°)	10.6	0.6			G1/100
BL (0°-30°)	105.4	6.4	B0/110		
BM (30°-60°)	278.0	17.0	B1/1000		
BH (60°-80°)	158.3	9.7	B1/500		G0/660
BVH (80°-90°)	10.6	0.6			G1/100
UL (90°-100°)	11.9	0.7		U2/50	
UH (100°-180°)	522.1	31.9		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°	262.6	262.6	262.6	262.6	262.6	262.6	262.6	262.6	262.6	262.6	262.6
2.5°	260.0	260.8	260.0	260.0	260.0	260.0	260.0	260.0	260.0	260.0	260.8
5°	260.8	260.8	260.8	260.8	260.0	260.0	260.0	260.0	260.0	260.8	260.8
7.5°	258.2	258.2	258.2	258.2	258.2	257.3	258.2	258.2	258.2	258.2	258.2
10°	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5
12.5°	253.7	253.7	253.7	253.7	253.7	253.7	253.7	253.7	253.7	252.8	252.8
15°	251.9	251.9	251.9	251.9	252.8	252.8	251.9	251.9	251.9	251.9	251.9
17.5°	250.1	250.1	250.1	250.1	251.0	251.0	251.0	250.1	250.1	250.1	250.1
20°	248.3	248.3	248.3	248.3	249.2	249.2	249.2	249.2	249.2	248.3	248.3
22.5°	247.4	247.4	247.4	247.4	248.3	248.3	248.3	248.3	247.4	247.4	247.4
25°	246.5	247.4	247.4	247.4	248.3	249.2	249.2	248.3	247.4	246.5	246.5
27.5°	247.4	247.4	247.4	248.3	248.3	249.2	249.2	248.3	247.4	247.4	247.4
30°	246.5	246.5	246.5	247.4	248.3	249.2	248.3	248.3	247.4	246.5	246.5
32.5°	244.7	244.7	245.6	246.5	247.4	247.4	247.4	246.5	245.6	244.7	244.7
35°	242.9	242.9	242.9	243.8	245.6	245.6	245.6	244.7	243.8	242.9	242.0
37.5°	240.2	241.1	241.1	242.9	243.8	244.7	243.8	242.9	241.1	240.2	240.2
40°	238.4	238.4	239.3	241.1	242.9	242.9	242.0	241.1	239.3	238.4	238.4
42.5°	235.7	235.7	237.5	239.3	242.0	242.0	241.1	239.3	237.5	235.7	235.7
45°	235.7	235.7	237.5	241.1	242.9	244.7	242.9	241.1	237.5	235.7	234.9
47.5°	236.6	236.6	238.4	242.9	246.5	248.3	245.6	242.0	238.4	236.6	235.7
50°	234.9	235.7	239.3	243.8	248.3	249.2	248.3	242.9	239.3	234.9	234.9
52.5°	235.7	235.7	240.2	247.4	251.9	253.7	251.9	247.4	239.3	234.9	234.9
55°	234.0	233.1	239.3	247.4	254.6	258.2	254.6	247.4	238.4	233.1	232.2
57.5°	225.9	225.9	234.0	242.0	251.0	252.8	250.1	242.0	233.1	225.9	224.1
60°	215.1	216.0	224.1	233.1	241.1	242.0	240.2	233.1	224.1	216.0	213.3
62.5°	203.5	205.3	213.3	222.3	232.2	234.0	231.3	222.3	211.5	206.2	201.7
65°	186.4	189.1	198.1	208.0	218.7	217.8	217.8	207.1	199.0	190.0	185.6
67.5°	167.6	170.3	176.6	190.0	199.0	198.1	197.2	190.0	176.6	170.3	167.6
70°	147.0	148.8	155.1	168.5	176.6	177.5	174.8	167.6	155.1	150.6	146.1
72.5°	122.8	123.7	132.7	143.4	151.5	150.6	149.7	143.4	131.8	127.3	121.9
75°	96.8	97.7	105.8	115.6	121.9	121.0	120.1	115.6	105.8	100.4	95.9
77.5°	72.6	71.7	79.8	86.9	90.5	91.4	89.6	86.1	78.9	74.4	71.7
80°	47.5	46.6	53.8	59.2	61.9	61.9	61.0	58.3	52.9	49.3	47.5
82.5°	26.9	26.0	30.5	34.1	36.8	35.9	35.0	33.2	30.5	27.8	26.0
85°	9.9	9.9	12.5	14.3	16.1	16.1	15.2	14.3	11.7	10.8	9.9
87.5°	0.9	0.9	1.8	2.7	2.7	2.7	1.8	1.8	0.9	0.9	0.9
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)