

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: P832951

Luminaire Tested: **TTN-D0-830-U-CQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832951
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-UPL1
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: 1390.8 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G0

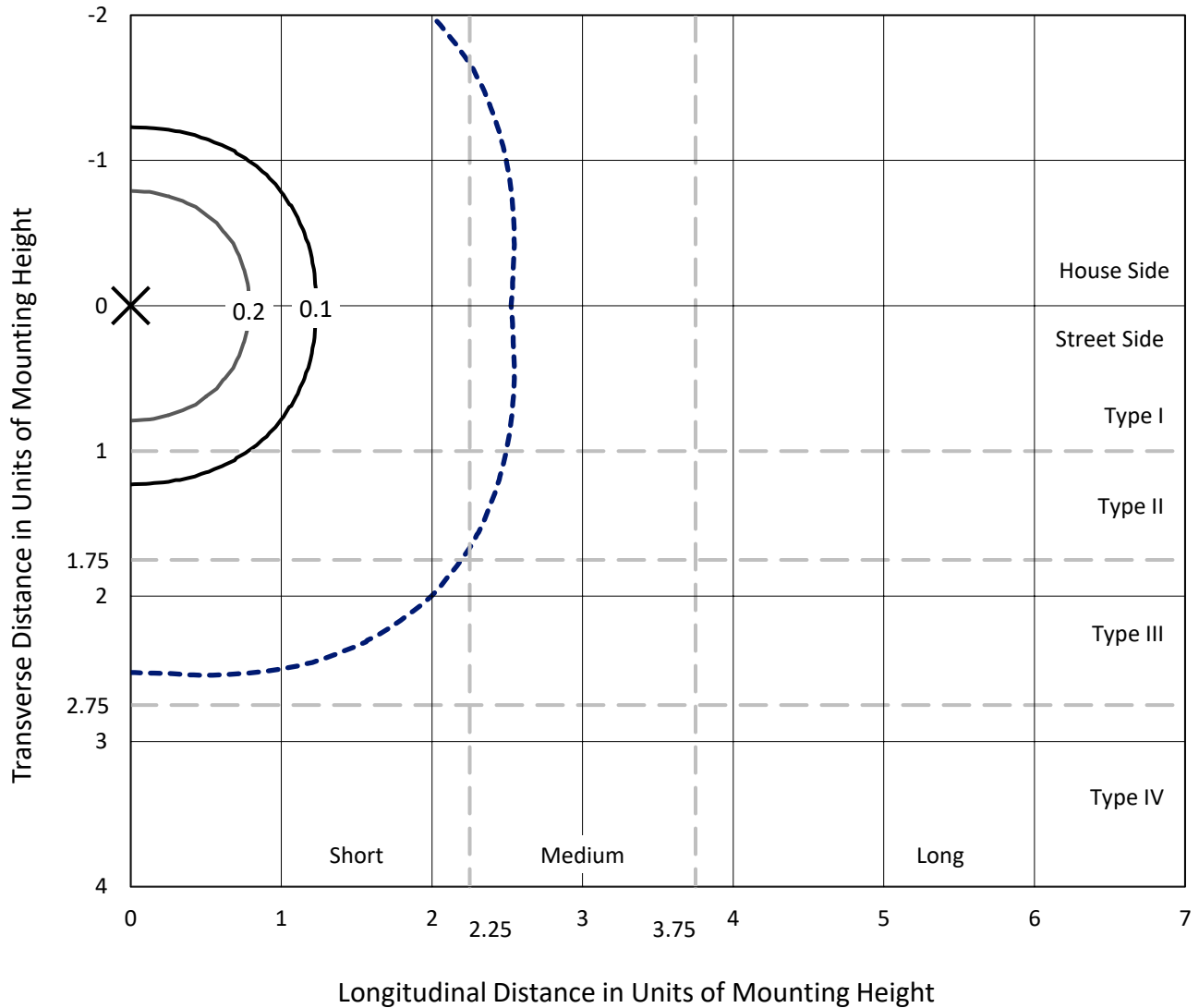
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

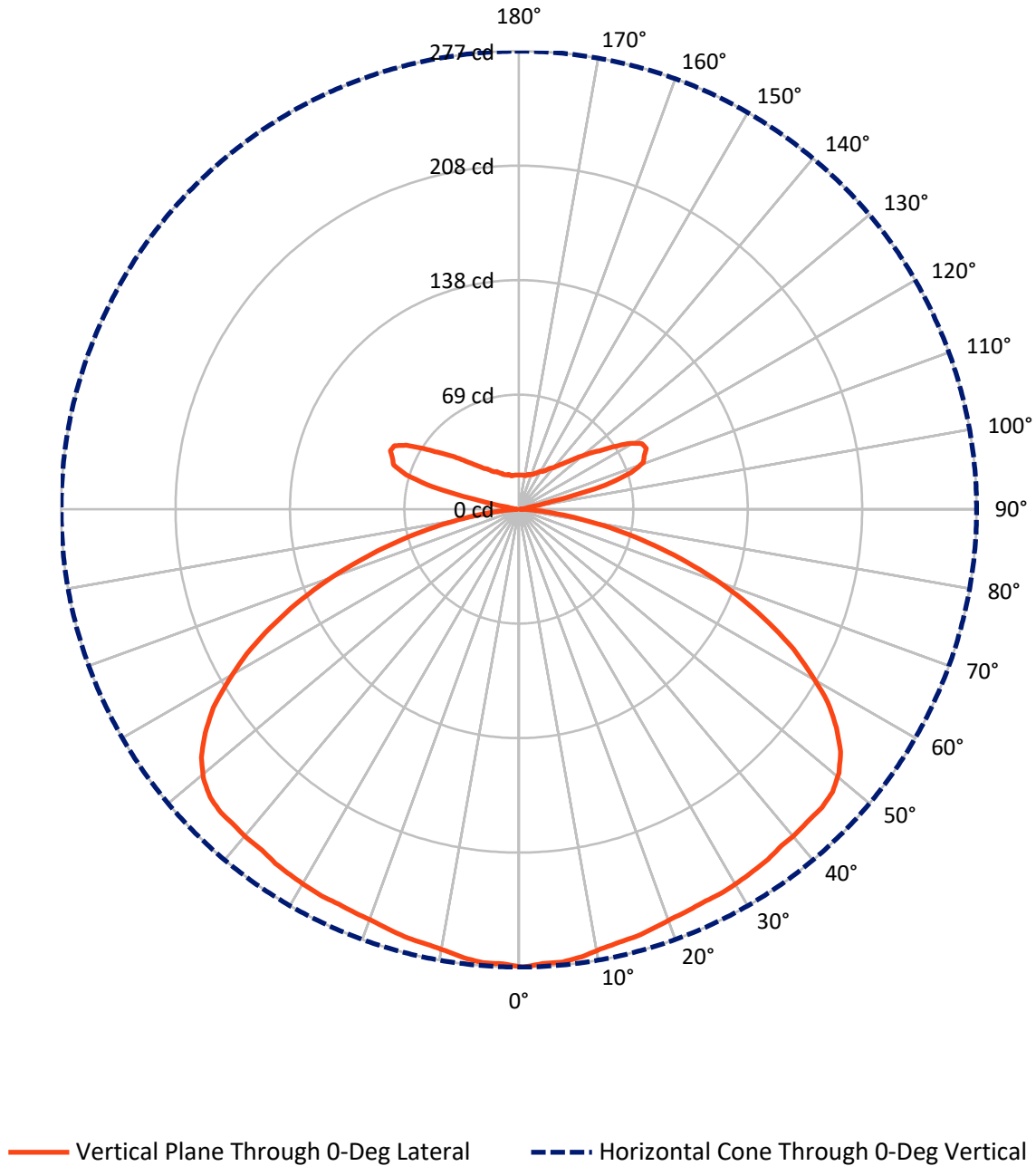
✕ Max cd
 - - - 1/2 Max cd



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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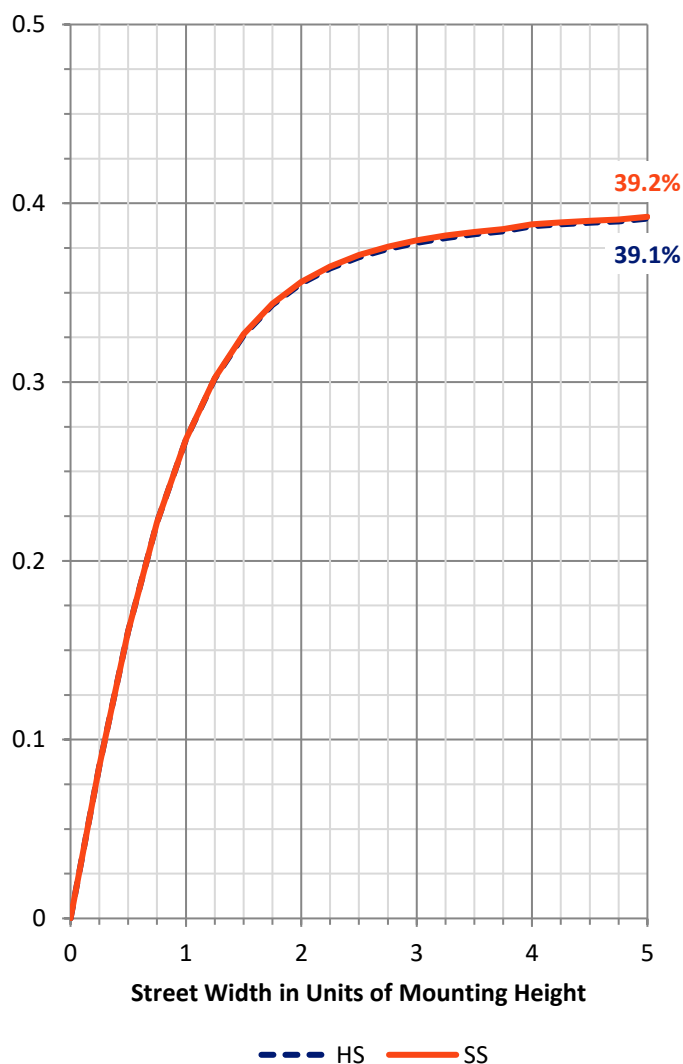
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.7	147.7	695.4
	% Fixture	39.4	10.6	50.0
Street Side	Lumens	547.7	147.7	695.4
	% Fixture	39.4	10.6	50.0
Total	Lumens	1095.4	295.5	1390.8
	% Fixture	78.8	21.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	1.9
10°-20°	75.8	5.4
20°-30°	122.1	8.8
30°-40°	164.2	11.8
40°-50°	202.6	14.6
50°-60°	217.3	15.6
60°-70°	176.2	12.7
70°-80°	93.4	6.7
80°-90°	17.7	1.3
90°-100°	6.6	0.5
100°-110°	67.0	4.8
110°-120°	98.0	7.0
120°-130°	56.9	4.1
130°-140°	30.1	2.2
140°-150°	17.9	1.3
150°-160°	11.0	0.8
160°-170°	6.0	0.4
170°-180°	2.0	0.1
0°-90°	1095.4	78.8
0°-180°	1390.8	100.0

Coefficient of Utilization



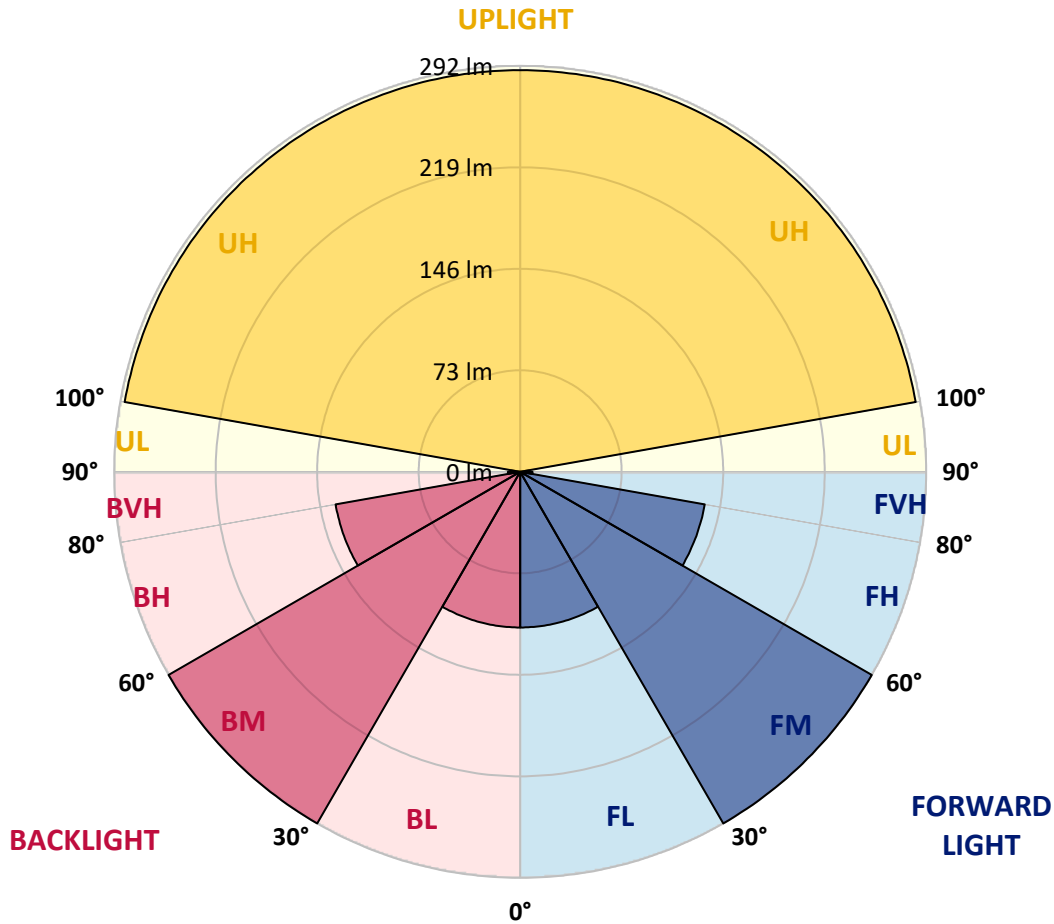
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.0	8.1			
FM (30°-60°)	292.0	21.0			
FH (60°-80°)	134.8	9.7			G0/660
FVH (80°-90°)	8.8	0.6			G0/10
BL (0°-30°)	112.0	8.1	B1/500		
BM (30°-60°)	292.0	21.0	B1/1000		
BH (60°-80°)	134.8	9.7	B1/500		G0/660
BVH (80°-90°)	8.8	0.6			G0/10
UL (90°-100°)	6.6	0.5		U1/10	
UH (100°-180°)	288.9	20.8		U3/500	

BUG Rating: B1-U3-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°	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5
92.5°	2.5	2.5	2.5	3.5	4.0	3.5	4.0	3.0	3.0	2.5	2.5
95°	3.0	3.0	3.5	4.5	5.6	6.1	6.1	3.5	3.5	3.0	3.0
97.5°	4.0	4.5	4.5	5.6	9.1	16.7	10.1	5.1	5.1	4.5	4.0
100°	6.6	7.1	7.1	12.6	26.8	35.9	25.8	13.1	9.6	7.1	7.1
102.5°	21.2	22.2	27.3	40.9	60.7	55.1	46.5	44.0	30.3	24.3	23.3
105°	54.1	53.6	57.6	68.2	84.9	83.4	76.8	69.8	60.2	55.6	55.6
107.5°	71.3	71.3	74.8	83.9	96.6	112.7	114.2	90.5	79.4	74.3	73.8
110°	80.4	80.4	83.4	91.0	107.7	130.4	129.4	111.7	98.1	91.5	90.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.4	82.9	86.9	98.6	116.8	126.9	122.3	115.3	109.2	104.1	103.1
115°	85.4	85.4	90.0	101.1	111.2	115.3	110.2	104.6	100.6	98.6	99.6
117.5°	84.4	85.9	86.9	93.0	99.6	102.6	100.1	92.5	89.5	88.5	86.9
120°	78.4	78.4	79.4	82.4	85.9	87.5	86.4	81.4	78.9	78.4	77.3
122.5°	69.8	70.3	69.8	71.3	73.8	75.3	74.3	70.3	69.3	69.3	68.2
125°	61.2	61.2	60.7	61.7	63.2	62.7	63.2	61.2	60.7	60.7	60.2
127.5°	55.1	54.6	53.6	54.1	54.6	54.6	55.1	53.1	53.6	54.1	53.6
130°	49.0	49.0	48.0	48.0	48.0	47.0	48.0	47.0	47.5	48.0	48.5
132.5°	43.5	43.5	42.0	41.5	41.5	41.5	42.0	41.5	42.5	43.5	43.5
135°	38.9	38.9	37.4	37.9	37.9	37.4	37.9	37.4	38.4	38.9	38.9
137.5°	35.4	35.4	34.4	34.4	34.4	33.9	34.4	34.4	34.9	35.9	36.4
140°	32.4	32.4	31.8	31.8	31.3	31.8	31.8	31.8	32.4	32.9	32.9
142.5°	30.8	30.3	29.8	29.3	29.8	29.8	29.8	29.3	29.8	30.8	30.8
145°	28.3	28.3	27.8	27.8	27.8	28.3	27.8	27.8	28.3	28.3	28.8
147.5°	26.8	26.8	26.3	26.8	26.8	26.8	26.8	26.3	26.8	26.8	27.3
150°	26.3	25.8	25.3	25.8	25.8	25.3	25.3	25.3	25.3	25.8	25.8
152.5°	24.8	24.8	24.3	24.8	24.3	24.3	24.3	24.3	24.3	24.8	25.3
155°	23.8	23.8	23.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
157.5°	22.7	23.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
160°	22.2	22.2	22.2	22.2	21.7	21.7	21.7	22.2	22.2	22.2	22.7
162.5°	21.7	21.7	21.7	21.7	21.2	21.2	21.2	21.2	21.7	21.7	22.2
165°	21.7	21.2	21.2	21.2	20.7	20.7	20.7	20.7	21.2	21.7	21.2
167.5°	20.7	20.7	20.7	20.7	20.7	20.2	20.2	20.7	20.7	20.7	21.2
170°	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.7
172.5°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.7	20.7
175°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.7	20.7	20.7	20.2
177.5°	20.7	20.7	20.7	20.7	20.2	20.7	20.7	20.7	20.7	20.7	20.7
180°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)