

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: P832962

Luminaire Tested: **TTN-D0-830-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832962
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-UPL3
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: 1845.7 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

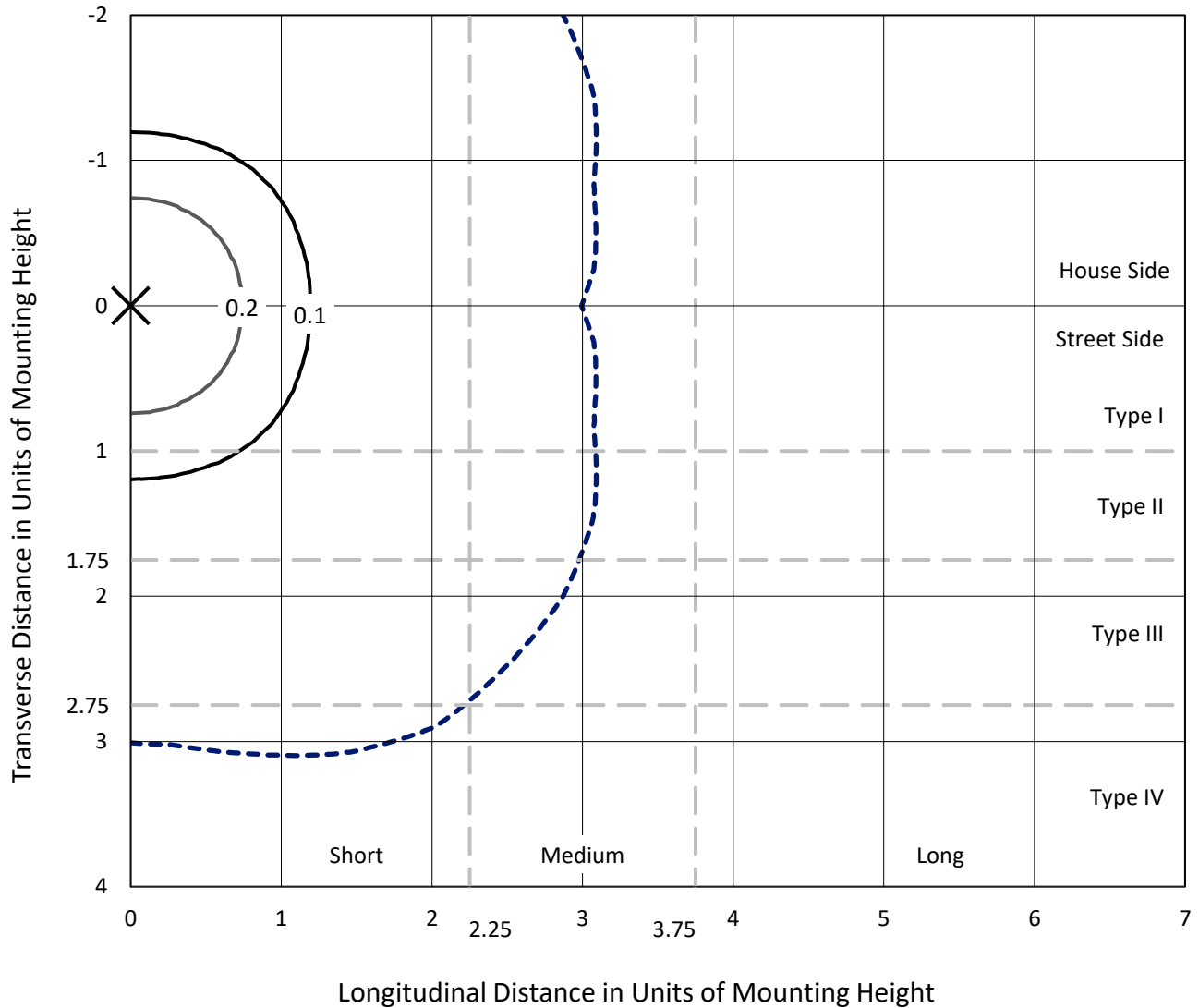
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

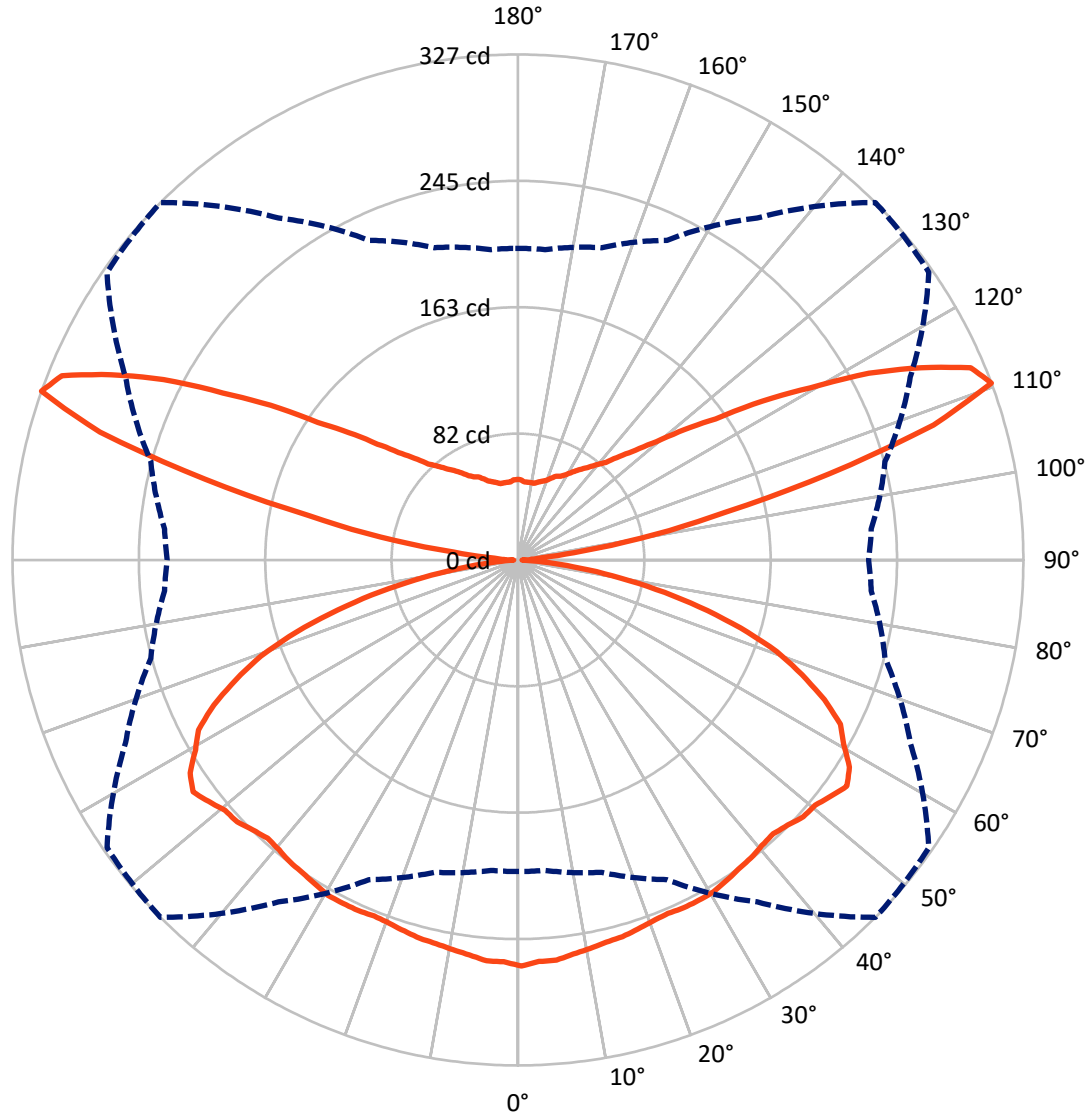
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 110-Deg Vertical

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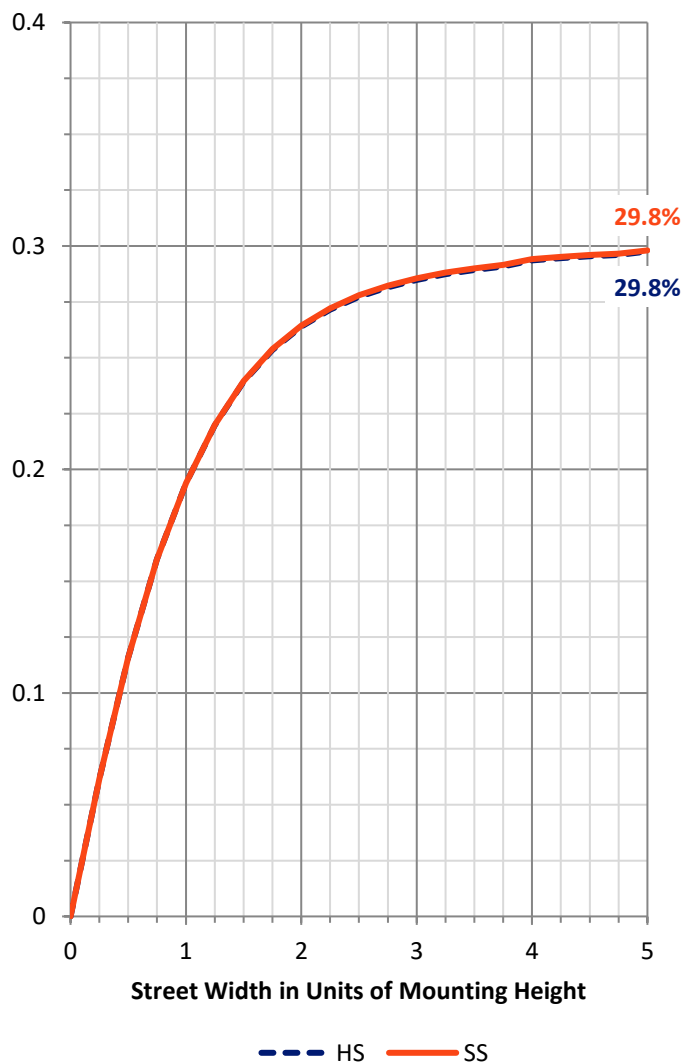
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.5	370.3	922.8
	% Fixture	29.9	20.1	50.0
Street Side	Lumens	552.5	370.3	922.8
	% Fixture	29.9	20.1	50.0
Total	Lumens	1105.0	740.7	1845.7
	% Fixture	59.9	40.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	1.3
10°-20°	71.4	3.9
20°-30°	114.8	6.2
30°-40°	153.3	8.3
40°-50°	186.3	10.1
50°-60°	216.5	11.7
60°-70°	199.7	10.8
70°-80°	116.9	6.3
80°-90°	21.5	1.2
90°-100°	16.5	0.9
100°-110°	168.0	9.1
110°-120°	245.6	13.3
120°-130°	142.5	7.7
130°-140°	75.5	4.1
140°-150°	44.9	2.4
150°-160°	27.6	1.5
160°-170°	15.1	0.8
170°-180°	4.9	0.3
0°-90°	1105.0	59.9
0°-180°	1845.7	100.0

Coefficient of Utilization



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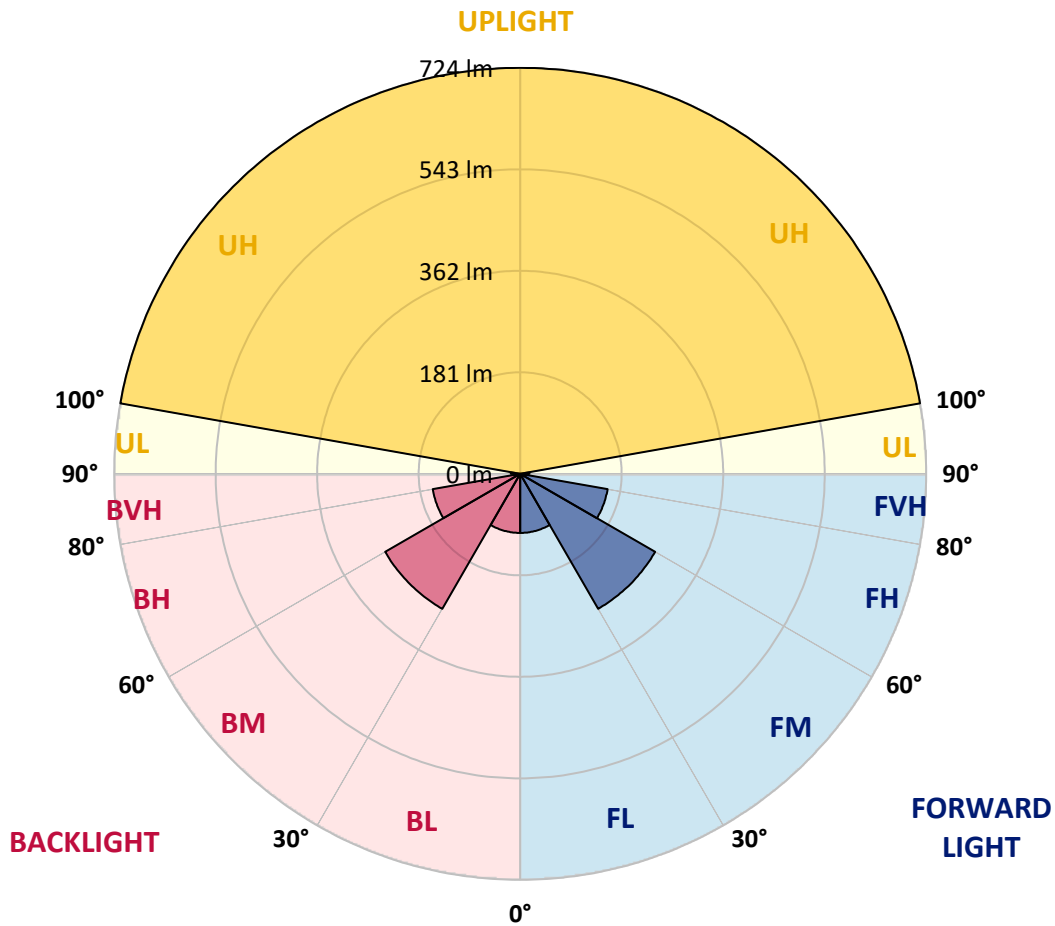
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.4	5.7			
FM (30°-60°)	278.0	15.1			
FH (60°-80°)	158.3	8.6			G0/660
FVH (80°-90°)	10.7	0.6			G1/100
BL (0°-30°)	105.4	5.7	B0/110		
BM (30°-60°)	278.0	15.1	B1/1000		
BH (60°-80°)	158.3	8.6	B1/500		G0/660
BVH (80°-90°)	10.7	0.6			G1/100
UL (90°-100°)	16.5	0.9		U2/50	
UH (100°-180°)	724.2	39.2		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°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)