

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: P832833

Luminaire Tested: **TTN-D0-740-U-CQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832833
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-D0-740-U-CQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2034.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

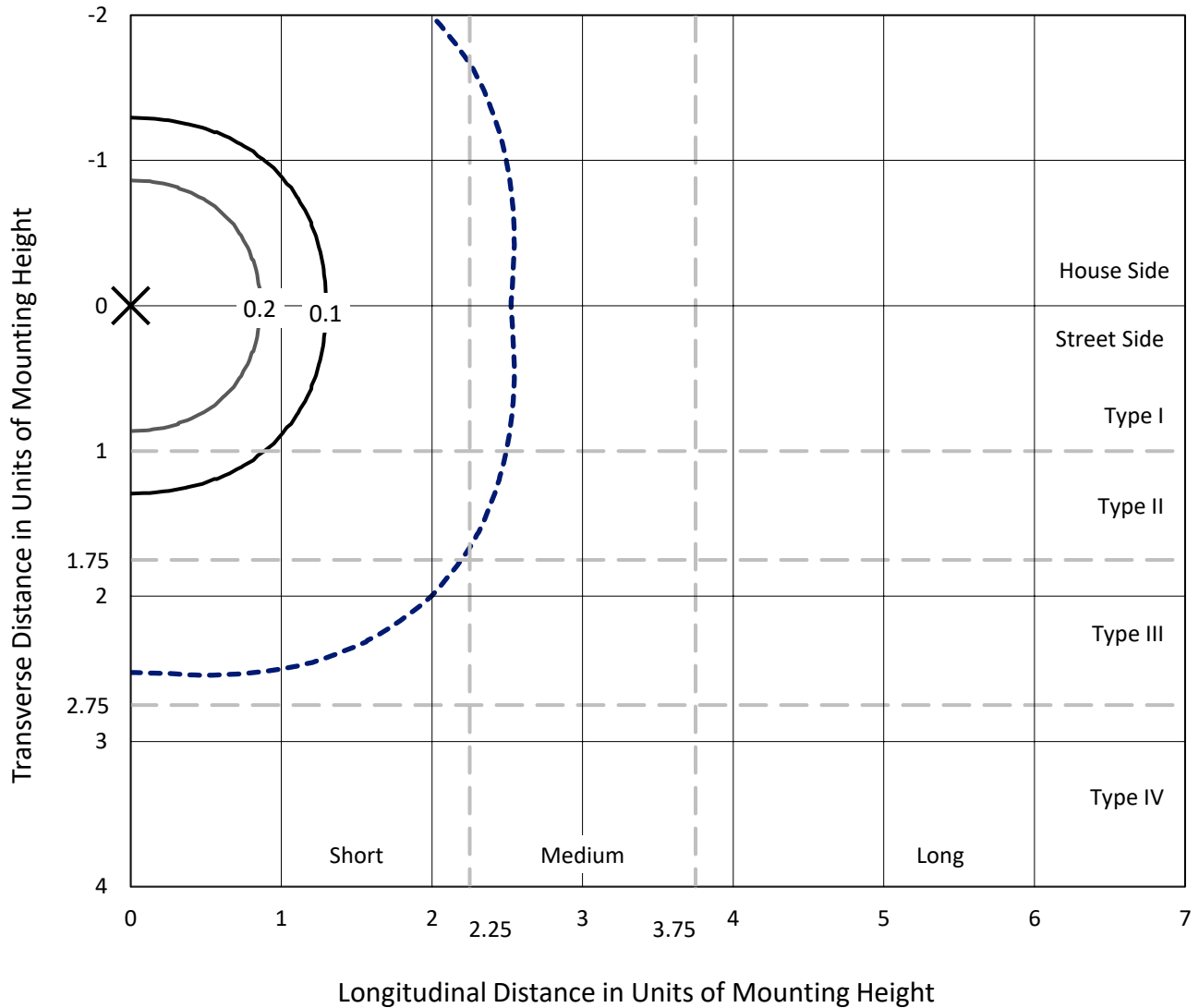
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

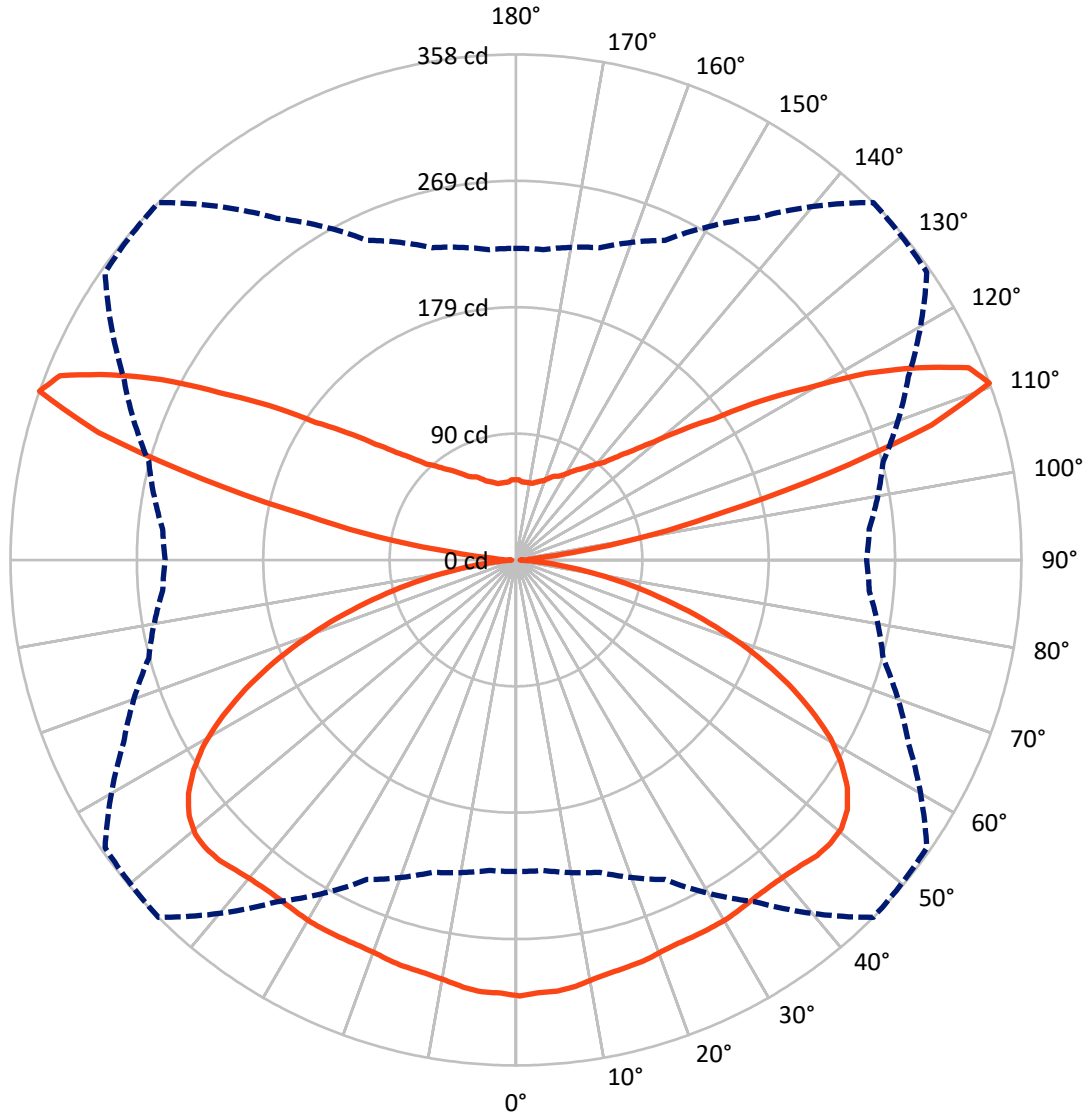
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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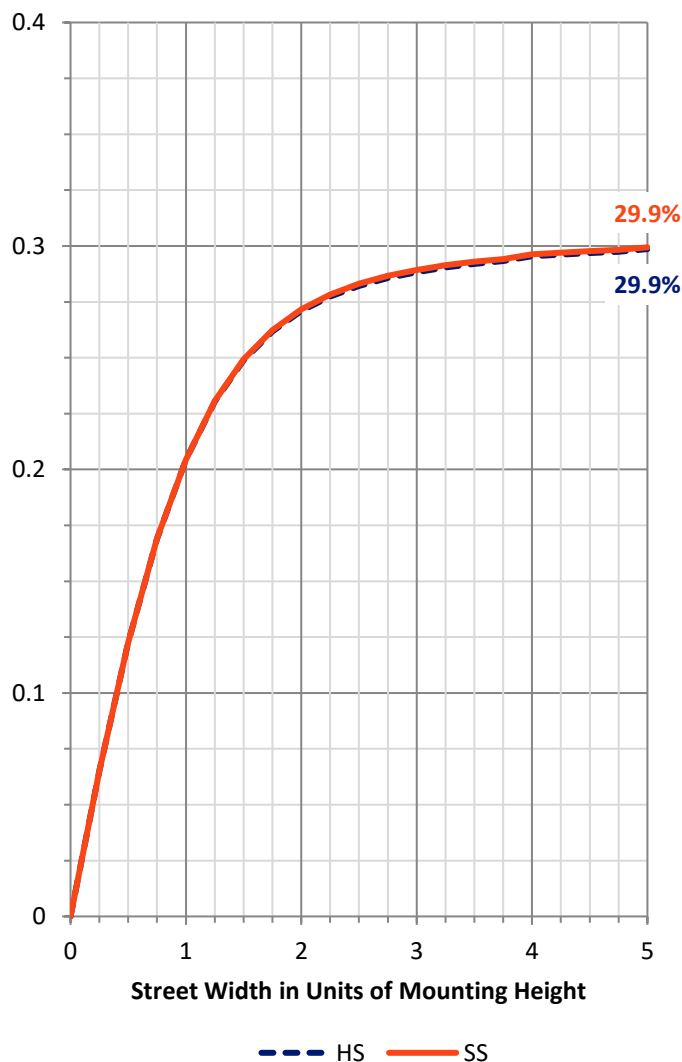
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	611.5	405.8	1017.3
	% Fixture	30.1	19.9	50.0
Street Side	Lumens	611.5	405.8	1017.3
	% Fixture	30.1	19.9	50.0
Total	Lumens	1223.1	811.5	2034.6
	% Fixture	60.1	39.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	1.4
10°-20°	84.6	4.2
20°-30°	136.2	6.7
30°-40°	183.2	9.0
40°-50°	226.1	11.1
50°-60°	242.5	11.9
60°-70°	196.7	9.7
70°-80°	104.2	5.1
80°-90°	20.4	1.0
90°-100°	18.1	0.9
100°-110°	184.1	9.0
110°-120°	269.1	13.2
120°-130°	156.2	7.7
130°-140°	82.7	4.1
140°-150°	49.1	2.4
150°-160°	30.3	1.5
160°-170°	16.5	0.8
170°-180°	5.4	0.3
0°-90°	1223.1	60.1
0°-180°	2034.6	100.0

Coefficient of Utilization

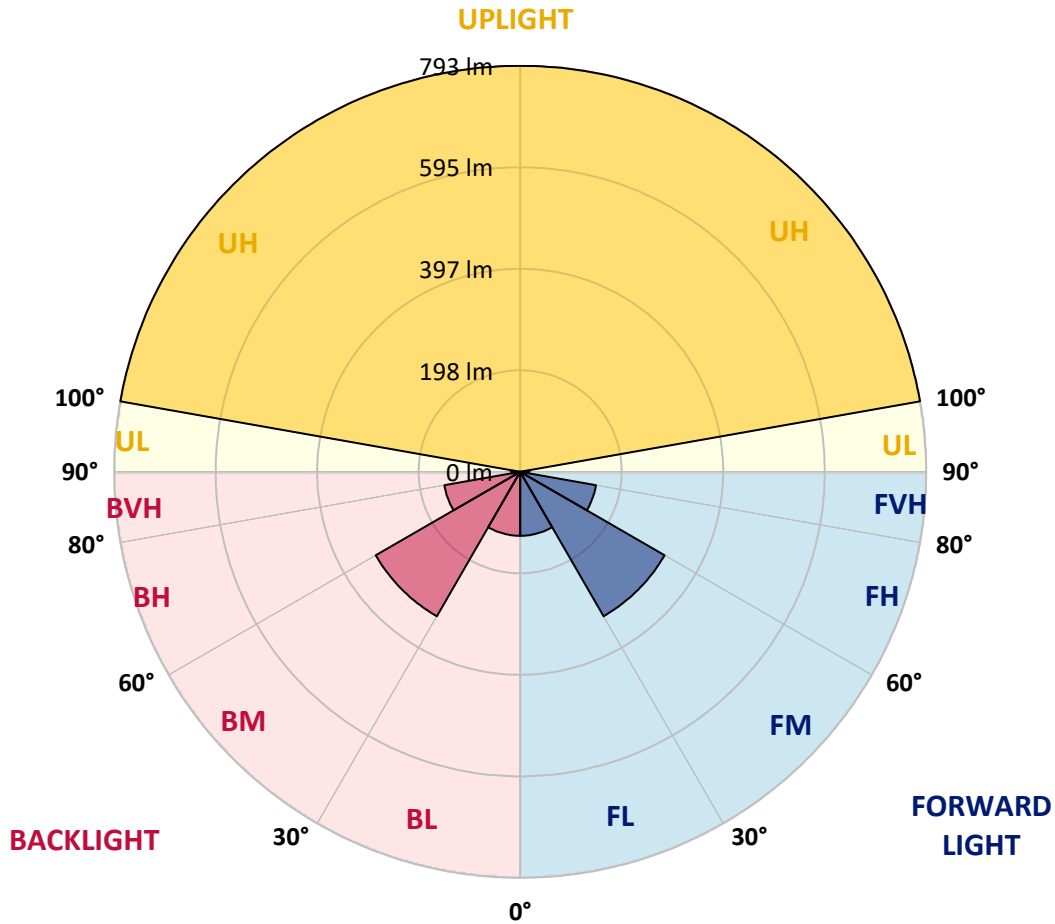


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.0	6.1			
FM (30°-60°)	325.9	16.0			
FH (60°-80°)	150.5	7.4			G0/660
FVH (80°-90°)	10.2	0.5			G1/100
BL (0°-30°)	125.0	6.1	B1/500		
BM (30°-60°)	325.9	16.0	B1/1000		
BH (60°-80°)	150.5	7.4	B1/500		G0/660
BVH (80°-90°)	10.2	0.5			G1/100
UL (90°-100°)	18.1	0.9		U2/50	
UH (100°-180°)	793.4	39.0		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°	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0
2.5°	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	308.0
5°	307.0	307.0	307.0	307.0	306.0	307.0	307.0	307.0	307.0	307.0	307.0
7.5°	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0
10°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
12.5°	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
15°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	298.0	298.0
17.5°	297.0	297.0	297.0	297.0	298.0	298.0	298.0	297.0	297.0	297.0	297.0
20°	295.0	295.0	295.0	296.0	296.0	296.0	296.0	296.0	295.0	295.0	295.0
22.5°	294.0	294.0	294.0	294.0	295.0	295.0	295.0	295.0	294.0	294.0	294.0
25°	293.0	293.0	294.0	294.0	295.0	295.0	295.0	294.0	294.0	293.0	293.0
27.5°	293.0	293.0	294.0	294.0	295.0	295.0	295.0	295.0	294.0	293.0	293.0
30°	292.0	293.0	293.0	294.0	295.0	295.0	295.0	294.0	293.0	292.0	292.0
32.5°	291.0	291.0	292.0	293.0	294.0	294.0	294.0	293.0	292.0	291.0	290.0
35°	290.0	290.0	290.0	292.0	293.0	293.0	293.0	292.0	290.0	289.0	289.0
37.5°	288.0	289.0	290.0	291.0	293.0	293.0	293.0	291.0	289.0	288.0	287.0
40°	288.0	288.0	290.0	291.0	294.0	294.0	293.0	291.0	289.0	287.0	286.0
42.5°	287.0	288.0	290.0	293.0	296.0	296.0	295.0	292.0	289.0	287.0	286.0
45°	287.0	287.0	290.0	294.0	298.0	299.0	297.0	294.0	290.0	286.0	286.0
47.5°	285.0	285.0	289.0	294.0	299.0	300.0	299.0	294.0	289.0	286.0	285.0
50°	280.0	280.0	285.0	291.0	297.0	299.0	297.0	293.0	286.0	282.0	281.0
52.5°	272.0	272.0	277.0	285.0	291.0	294.0	292.0	287.0	280.0	274.0	273.0
55°	260.0	261.0	266.0	275.0	282.0	285.0	283.0	277.0	269.0	263.0	261.0
57.5°	246.0	246.0	253.0	262.0	269.0	272.0	270.0	264.0	255.0	249.0	247.0
60°	227.0	228.0	234.0	246.0	253.0	256.0	254.0	247.0	237.0	230.0	228.0
62.5°	208.0	209.0	215.0	225.0	233.0	235.0	233.0	226.0	217.0	210.0	208.0
65°	186.0	187.0	194.0	203.0	209.0	212.0	209.0	203.0	195.0	188.0	187.0
67.5°	163.0	164.0	171.0	179.0	185.0	187.0	184.0	179.0	171.0	165.0	163.0
70°	139.0	140.0	146.0	153.0	158.0	160.0	158.0	152.0	146.0	140.0	139.0
72.5°	114.0	115.0	121.0	127.0	131.0	133.0	130.0	126.0	120.0	115.0	114.0
75°	90.0	90.0	95.0	100.0	104.0	105.0	103.0	100.0	95.0	91.0	89.0
77.5°	67.0	67.0	72.0	75.0	77.0	79.0	77.0	74.0	71.0	67.0	67.0
80°	45.0	45.0	49.0	51.0	53.0	54.0	53.0	51.0	49.0	46.0	45.0
82.5°	27.0	27.0	29.0	31.0	31.0	32.0	32.0	31.0	29.0	27.0	27.0
85°	12.0	11.0	13.0	14.0	14.0	15.0	15.0	14.0	13.0	12.0	12.0
87.5°	1.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0
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)