

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: P832971

Luminaire Tested: **TTN-D0-830-U-RW-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832971
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-RW-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1803.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U4 - G1

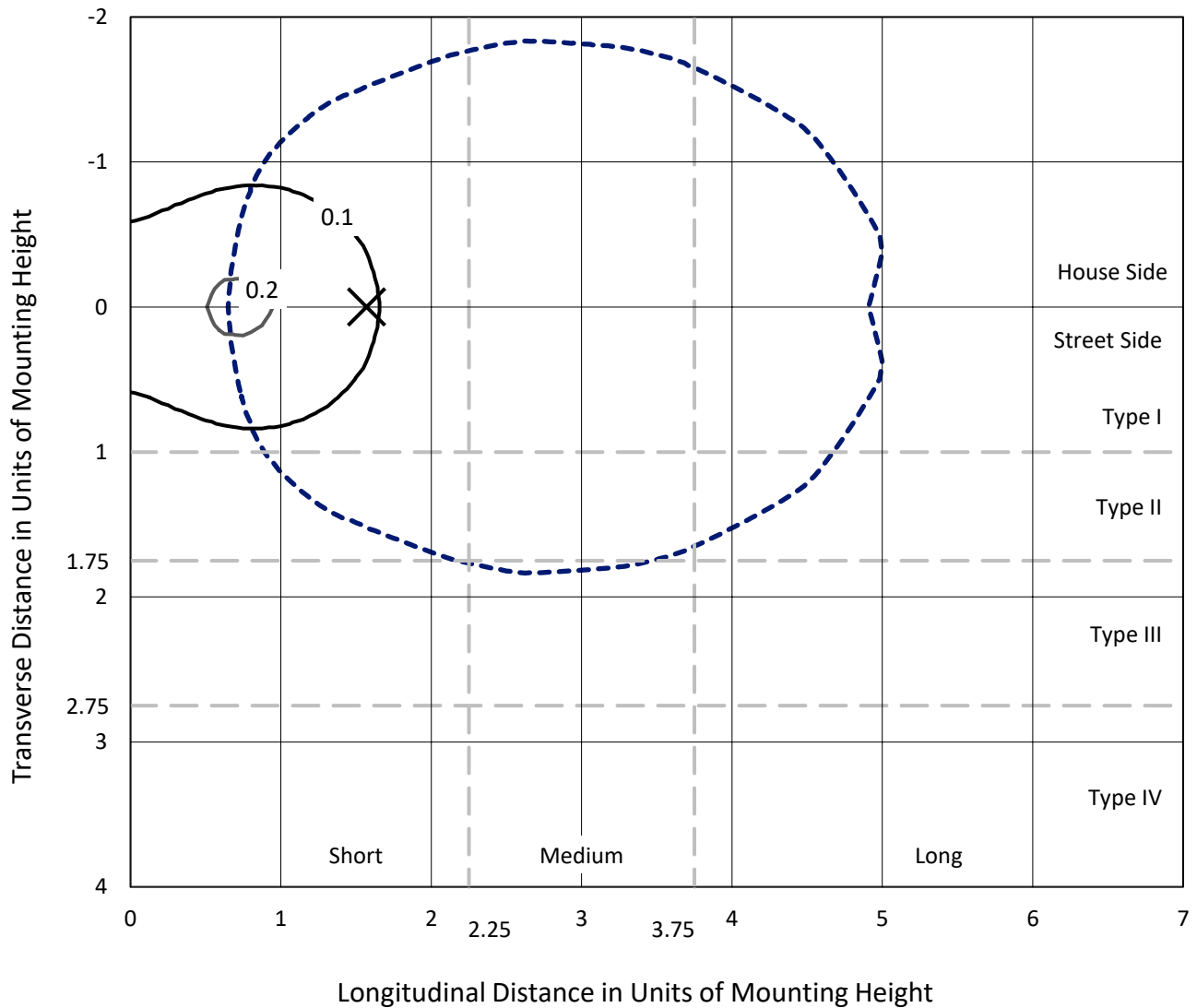
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

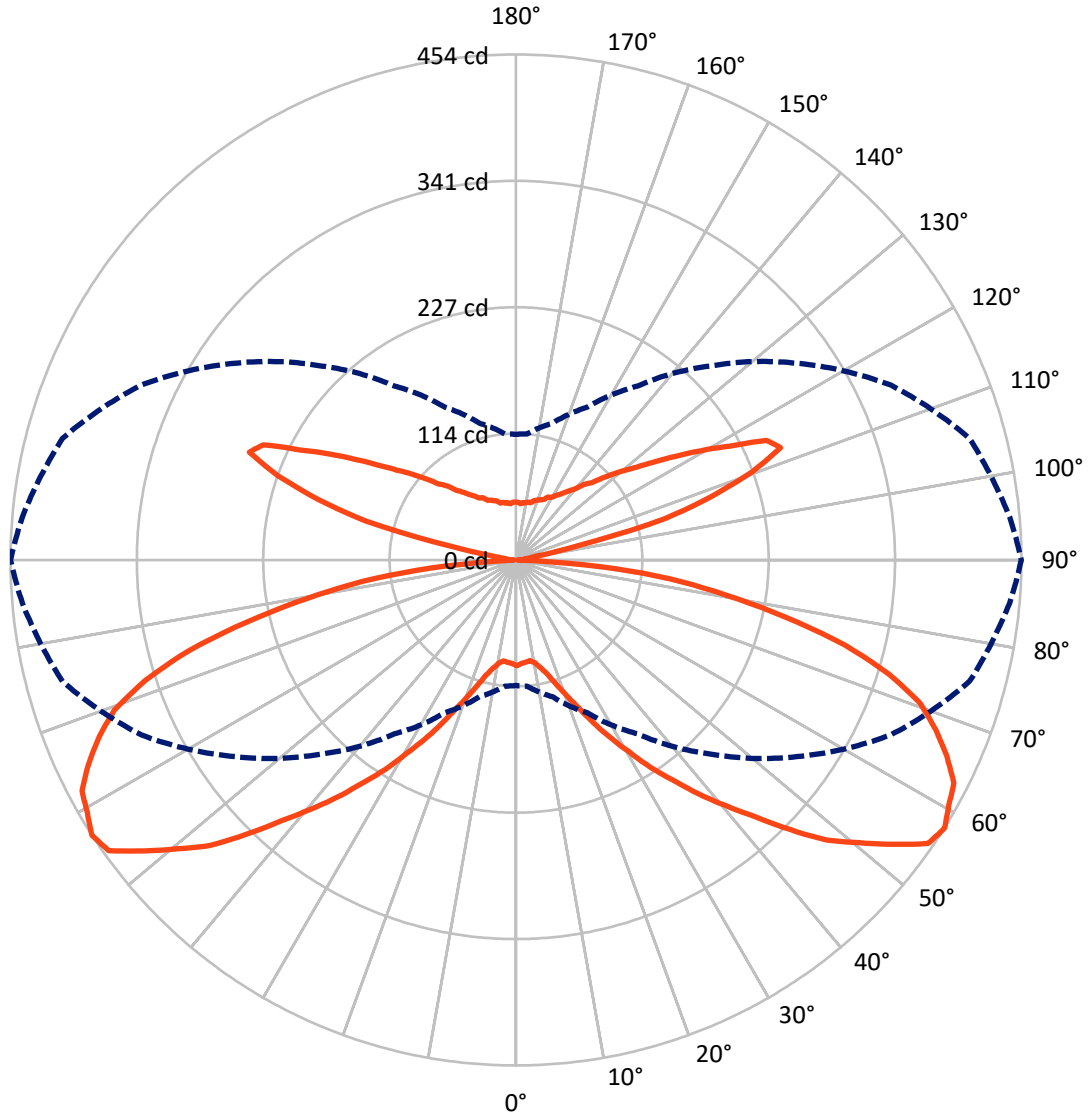
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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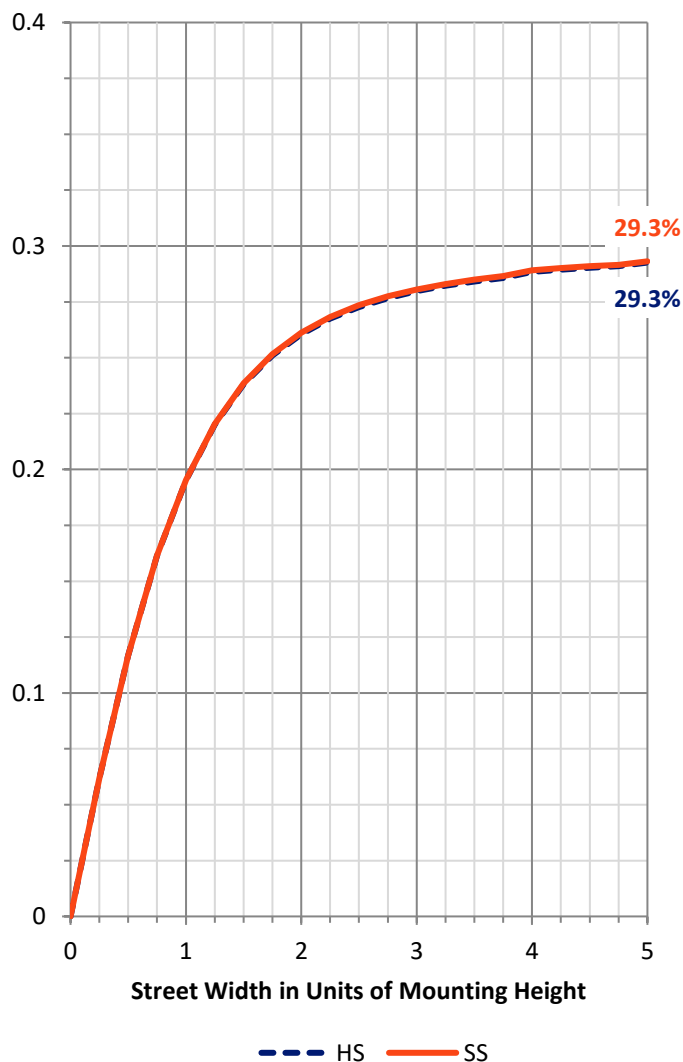
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.5	370.3	901.8
	% Fixture	29.5	20.5	50.0
Street Side	Lumens	531.5	370.3	901.8
	% Fixture	29.5	20.5	50.0
Total	Lumens	1063.0	740.7	1803.7
	% Fixture	58.9	41.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.5
10°-20°	28.5	1.6
20°-30°	59.4	3.3
30°-40°	106.6	5.9
40°-50°	170.3	9.4
50°-60°	233.1	12.9
60°-70°	240.5	13.3
70°-80°	171.0	9.5
80°-90°	44.8	2.5
90°-100°	16.5	0.9
100°-110°	168.0	9.3
110°-120°	245.6	13.6
120°-130°	142.5	7.9
130°-140°	75.5	4.2
140°-150°	44.9	2.5
150°-160°	27.6	1.5
160°-170°	15.1	0.8
170°-180°	4.9	0.3
0°-90°	1063.0	58.9
0°-180°	1803.7	100.0

Coefficient of Utilization



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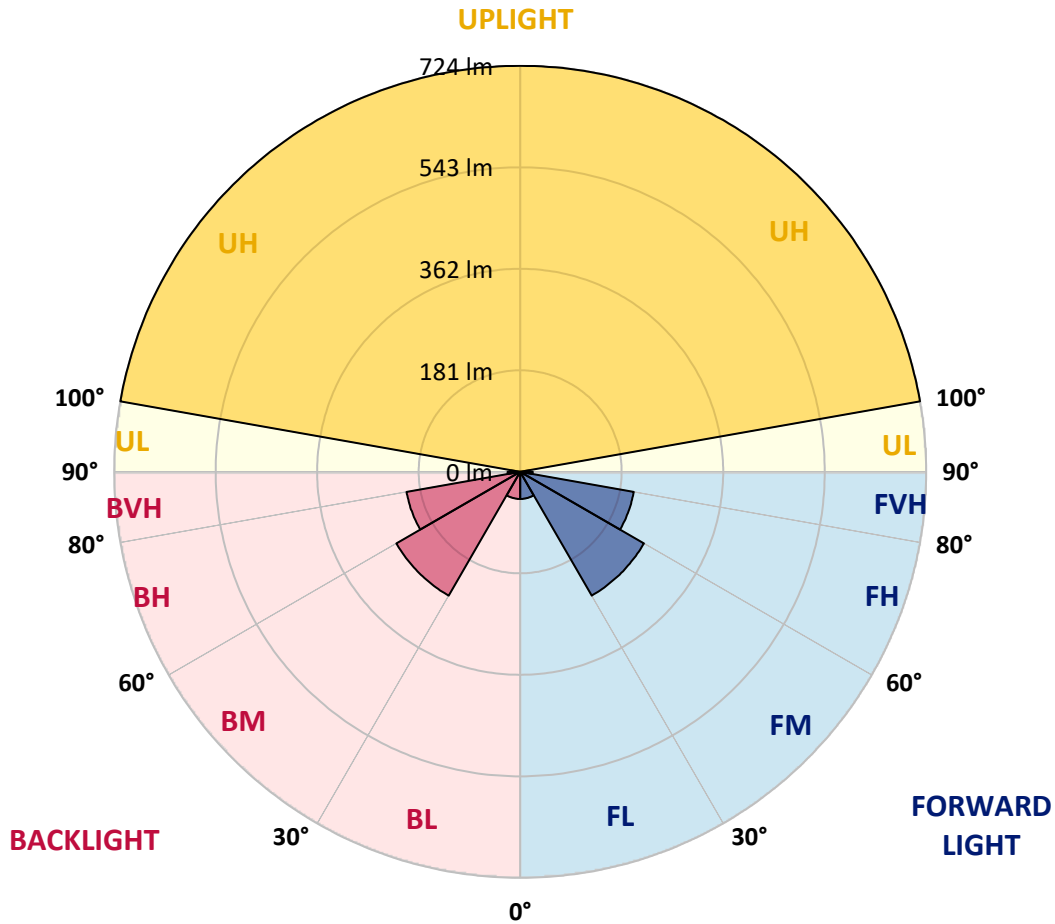
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	48.4	2.7			
FM (30°-60°)	255.0	14.1			
FH (60°-80°)	205.7	11.4			G0/660
FVH (80°-90°)	22.4	1.2			G1/100
BL (0°-30°)	48.4	2.7	B0/110		
BM (30°-60°)	255.0	14.1	B1/1000		
BH (60°-80°)	205.7	11.4	B1/500		G1/500
BVH (80°-90°)	22.4	1.2			G1/100
UL (90°-100°)	16.5	0.9		U2/50	
UH (100°-180°)	724.2	40.1		U4/1000	

BUG Rating: B1-U4-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
2.5°	95.0	95.0	94.1	94.1	94.1	93.2	93.2	93.2	93.2	92.3	93.2
5°	95.0	95.0	95.0	95.0	94.1	93.2	93.2	93.2	92.3	92.3	92.3
7.5°	94.1	94.1	94.1	94.1	93.2	92.3	92.3	92.3	91.4	91.4	91.4
10°	93.2	94.1	93.2	93.2	92.3	92.3	93.2	93.2	94.1	94.1	94.1
12.5°	92.3	92.3	92.3	93.2	93.2	94.1	95.9	97.7	98.6	99.5	99.5
15°	92.3	92.3	93.2	94.1	95.9	97.7	100.4	103.1	104.9	106.7	106.7
17.5°	92.3	92.3	93.2	95.9	98.6	102.2	106.7	110.2	113.8	116.5	117.4
20°	92.3	92.3	94.1	97.7	103.1	108.4	114.7	120.1	125.5	130.0	130.0
22.5°	93.2	94.1	95.9	100.4	108.4	116.5	124.6	132.6	138.9	144.3	144.3
25°	95.0	95.0	97.7	104.9	114.7	125.5	137.1	147.0	155.0	162.2	162.2
27.5°	95.9	96.8	100.4	109.3	121.9	135.3	151.5	163.1	173.9	180.1	181.0
30°	97.7	98.6	104.0	112.9	128.2	145.2	164.0	180.1	191.8	198.1	199.9
32.5°	98.6	99.5	106.7	117.4	134.4	154.2	175.7	196.3	212.4	219.6	222.3
35°	101.3	102.2	109.3	121.9	141.6	164.0	189.1	213.3	232.1	241.1	242.9
37.5°	104.0	104.9	112.0	126.4	148.8	174.8	203.4	231.2	252.7	263.5	267.1
40°	105.8	106.7	114.7	131.7	156.8	186.4	219.6	250.0	274.2	287.7	290.4
42.5°	108.4	109.3	118.3	136.2	164.0	198.1	236.6	270.7	296.7	311.9	315.5
45°	111.1	112.0	121.9	141.6	172.1	210.6	253.6	294.9	324.4	342.4	345.9
47.5°	113.8	114.7	125.5	147.0	180.1	223.2	271.6	316.4	352.2	369.2	376.4
50°	114.7	116.5	127.3	150.6	185.5	233.9	286.8	337.9	375.5	397.9	399.7
52.5°	115.6	117.4	129.1	153.3	190.0	242.0	299.3	355.8	399.7	426.6	424.8
55°	116.5	116.5	129.1	153.3	191.8	247.4	308.3	367.5	415.8	437.4	449.9
57.5°	112.9	113.8	127.3	151.5	190.9	246.5	308.3	371.9	422.1	445.4	454.4
60°	108.4	110.2	122.8	147.0	187.3	243.8	306.5	370.1	424.8	449.9	447.2
62.5°	102.2	105.8	116.5	140.7	181.9	237.5	303.8	365.7	418.5	444.5	441.8
65°	95.0	98.6	108.4	134.4	170.3	222.3	289.5	356.7	401.5	431.1	425.7
67.5°	87.8	90.5	100.4	123.7	156.8	206.1	270.7	337.0	377.3	409.6	406.9
70°	79.8	80.7	90.5	111.1	143.4	190.0	252.7	309.2	355.8	380.0	385.4
72.5°	69.9	69.9	79.8	97.7	127.3	168.5	228.5	277.8	321.7	342.4	350.4
75°	57.4	58.3	66.3	82.5	106.7	144.3	194.5	244.7	281.4	302.9	305.6
77.5°	44.8	45.7	52.0	65.4	86.0	116.5	160.4	199.9	234.8	253.6	248.3
80°	32.3	33.2	37.6	47.5	63.6	86.9	123.7	158.6	183.7	199.0	191.8
82.5°	19.7	20.6	23.3	29.6	40.3	56.5	84.2	110.2	130.0	142.5	139.8
85°	9.9	9.9	11.7	13.4	17.0	25.1	40.3	55.6	70.8	79.8	77.1
87.5°	1.8	2.7	2.7	2.7	2.7	1.8	2.7	2.7	2.7	4.5	1.8
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)