

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: P832847

Luminaire Tested: **TTN-D0-740-U-RW-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832847
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-RW-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1696.7 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U4 - G1

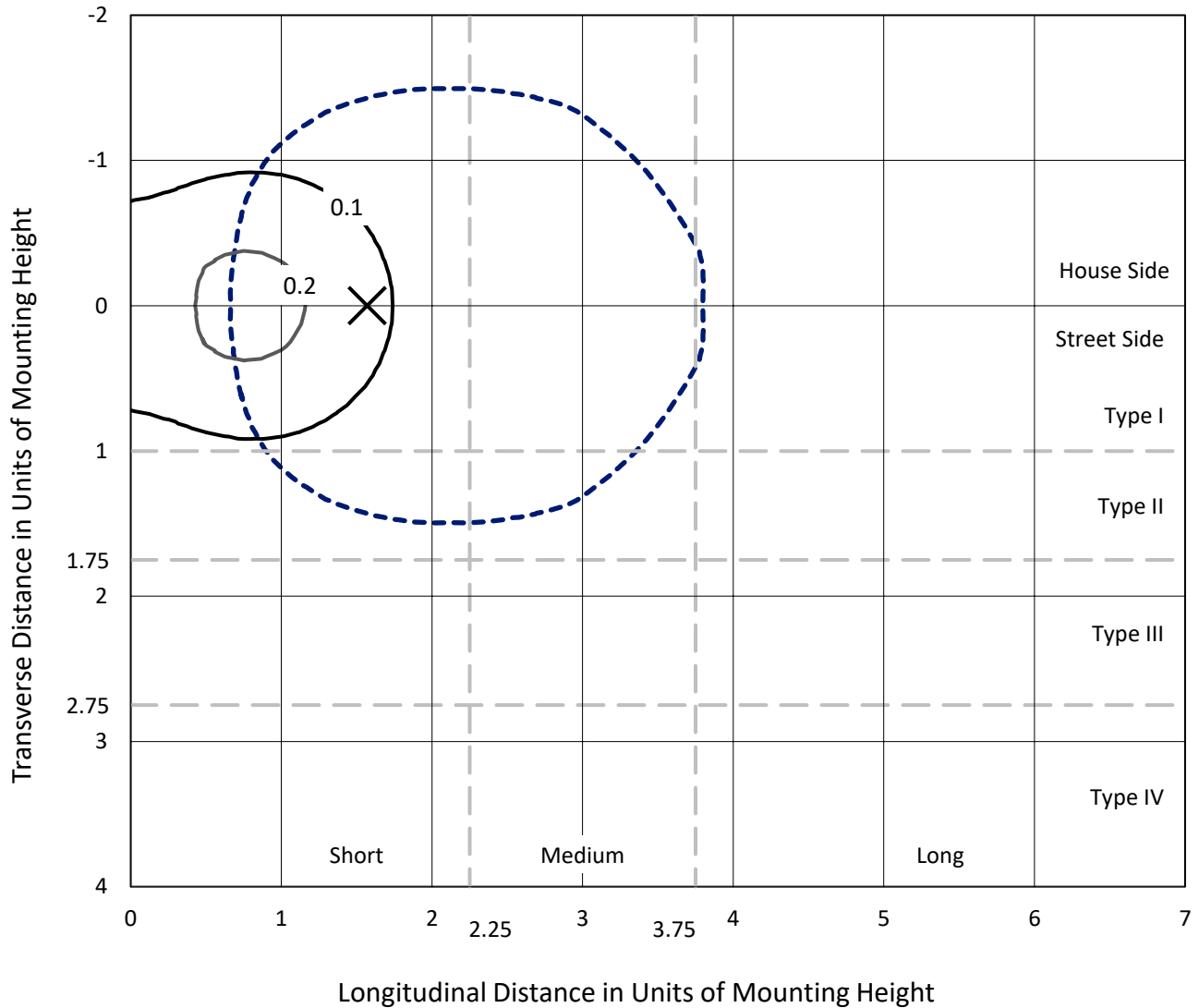
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

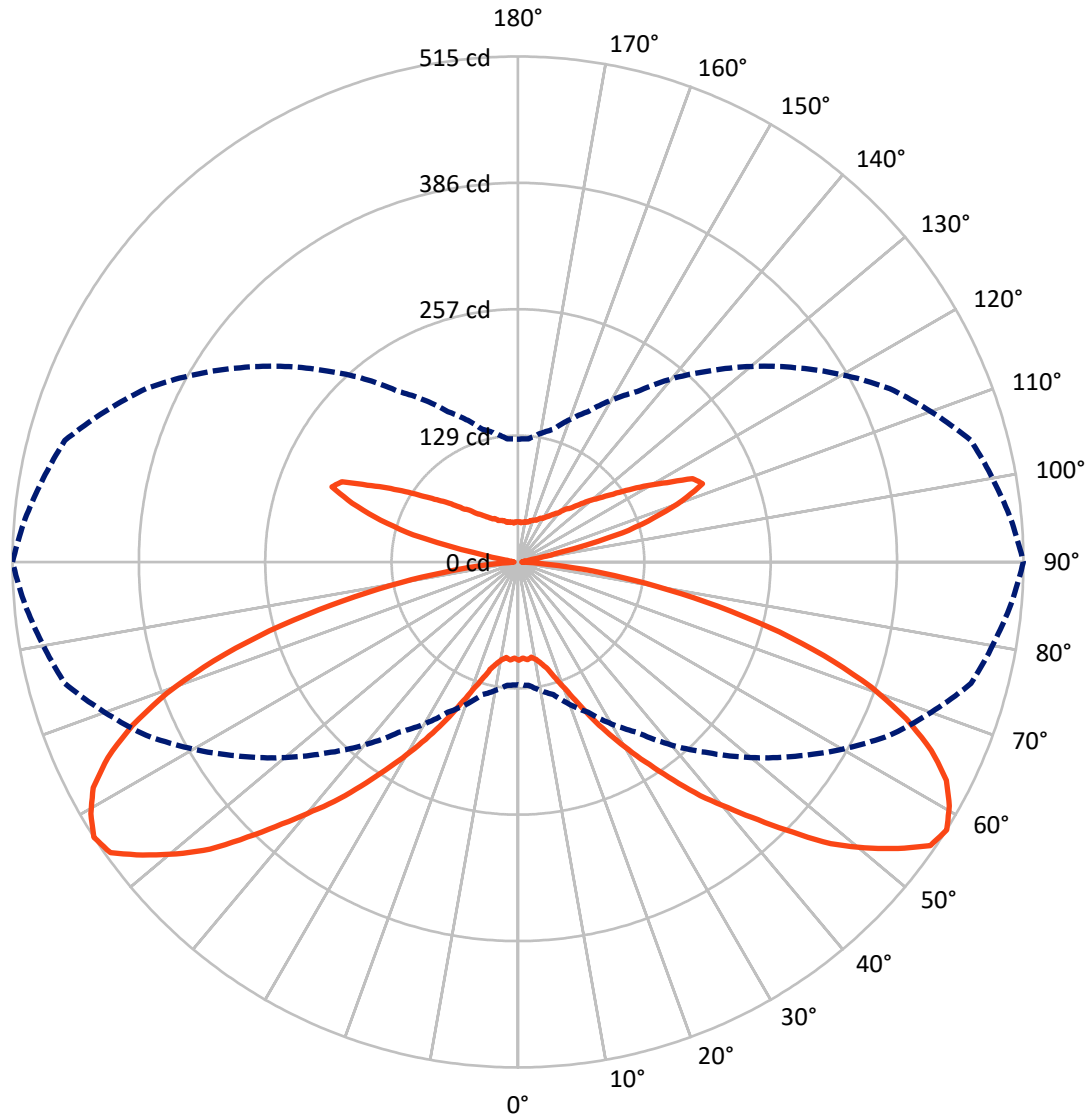
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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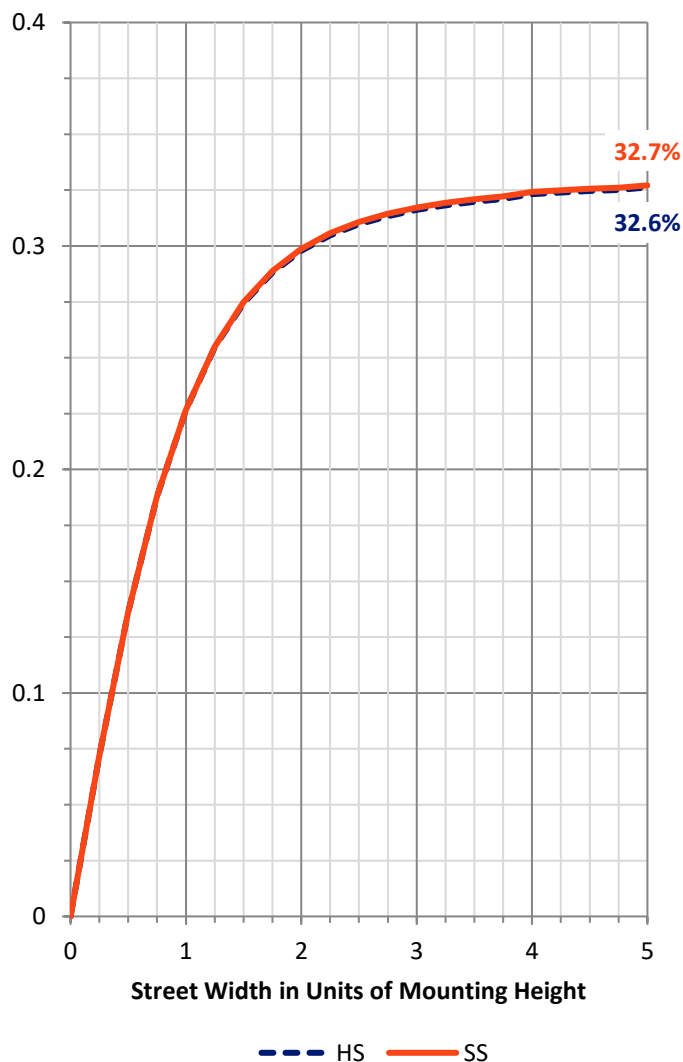
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	555.9	292.5	848.4
	% Fixture	32.8	17.2	50.0
Street Side	Lumens	555.9	292.5	848.4
	% Fixture	32.8	17.2	50.0
Total	Lumens	1111.8	584.9	1696.7
	% Fixture	65.5	34.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.6
10°-20°	30.7	1.8
20°-30°	65.3	3.9
30°-40°	120.4	7.1
40°-50°	193.9	11.4
50°-60°	262.4	15.5
60°-70°	255.2	15.0
70°-80°	148.5	8.8
80°-90°	25.9	1.5
90°-100°	13.1	0.8
100°-110°	132.7	7.8
110°-120°	194.0	11.4
120°-130°	112.6	6.6
130°-140°	59.7	3.5
140°-150°	35.4	2.1
150°-160°	21.8	1.3
160°-170°	11.9	0.7
170°-180°	3.9	0.2
0°-90°	1111.8	65.5
0°-180°	1696.7	100.0

Coefficient of Utilization



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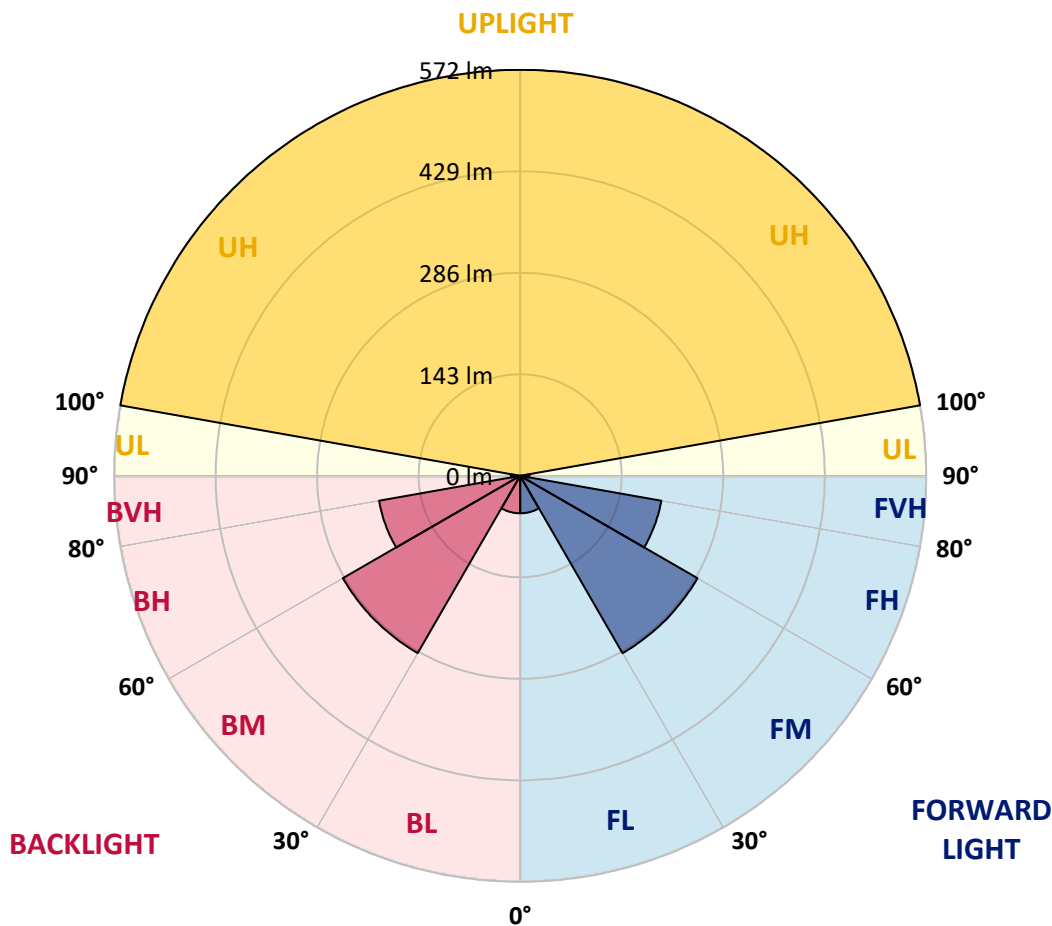
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	52.8	3.1			
FM (30°-60°)	288.4	17.0			
FH (60°-80°)	201.8	11.9			G0/660
FVH (80°-90°)	12.9	0.8			G1/100
BL (0°-30°)	52.8	3.1	B0/110		
BM (30°-60°)	288.4	17.0	B1/1000		
BH (60°-80°)	201.8	11.9	B1/500		G1/500
BVH (80°-90°)	12.9	0.8			G1/100
UL (90°-100°)	13.1	0.8		U2/50	
UH (100°-180°)	571.8	33.7		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°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2.5°	100.0	100.0	100.0	100.0	99.0	99.0	99.0	98.0	98.0	98.0	98.0
5°	100.0	100.0	100.0	101.0	101.0	101.0	100.0	100.0	100.0	100.0	100.0
7.5°	100.0	101.0	101.0	100.0	100.0	99.0	99.0	99.0	98.0	98.0	98.0
10°	100.0	100.0	100.0	100.0	99.0	99.0	100.0	100.0	101.0	101.0	101.0
12.5°	99.0	99.0	100.0	100.0	100.0	101.0	103.0	104.0	105.0	106.0	106.0
15°	100.0	100.0	101.0	102.0	103.0	105.0	108.0	111.0	113.0	114.0	113.0
17.5°	100.0	101.0	102.0	104.0	107.0	110.0	115.0	119.0	123.0	124.0	125.0
20°	102.0	102.0	103.0	107.0	112.0	117.0	124.0	130.9	135.9	137.9	137.9
22.5°	103.0	104.0	105.0	110.0	118.0	126.0	135.9	143.9	150.9	154.9	155.9
25°	106.0	106.0	108.0	115.0	125.0	136.9	149.9	161.9	170.9	175.9	176.9
27.5°	108.0	109.0	112.0	121.0	133.9	148.9	166.9	180.9	191.9	197.9	198.9
30°	110.0	111.0	117.0	127.0	142.9	160.9	181.9	199.9	213.9	220.9	221.9
32.5°	113.0	114.0	121.0	131.9	150.9	172.9	196.9	218.9	238.9	244.9	245.9
35°	116.0	117.0	125.0	137.9	159.9	184.9	212.9	238.9	262.9	270.9	272.9
37.5°	119.0	120.0	128.0	143.9	168.9	197.9	230.9	261.9	287.9	298.9	301.9
40°	122.0	123.0	131.9	149.9	177.9	211.9	249.9	283.9	313.9	326.9	328.9
42.5°	124.0	125.0	134.9	154.9	186.9	224.9	269.9	307.9	339.9	356.9	358.9
45°	127.0	128.0	138.9	161.9	194.9	239.9	288.9	334.9	371.9	390.8	392.8
47.5°	129.0	129.9	141.9	165.9	203.9	253.9	308.9	358.9	402.8	422.8	428.8
50°	129.9	130.9	143.9	169.9	209.9	263.9	324.9	382.9	429.8	454.8	457.8
52.5°	129.9	131.9	144.9	172.9	213.9	272.9	337.9	402.8	455.8	483.8	484.8
55°	129.0	129.9	143.9	171.9	215.9	276.9	346.9	414.8	473.8	500.8	509.8
57.5°	125.0	126.0	139.9	168.9	211.9	274.9	344.9	417.8	477.8	503.8	514.8
60°	119.0	121.0	133.9	161.9	205.9	267.9	338.9	411.8	471.8	503.8	504.8
62.5°	112.0	113.0	126.0	152.9	196.9	256.9	327.9	399.8	457.8	490.8	489.8
65°	102.0	103.0	114.0	141.9	180.9	235.9	305.9	380.9	430.8	465.8	462.8
67.5°	91.0	92.0	102.0	127.0	161.9	212.9	275.9	348.9	392.8	428.8	426.8
70°	79.0	79.0	88.0	109.0	141.9	186.9	242.9	306.9	350.9	380.9	381.9
72.5°	65.0	65.0	73.0	91.0	119.0	156.9	204.9	261.9	297.9	323.9	325.9
75°	51.0	50.0	57.0	72.0	94.0	125.0	161.9	210.9	238.9	263.9	262.9
77.5°	36.0	36.0	40.0	52.0	68.0	93.0	120.0	158.9	177.9	198.9	194.9
80°	23.0	23.0	25.0	34.0	45.0	62.0	79.0	108.0	121.0	136.9	131.9
82.5°	12.0	11.0	13.0	18.0	24.0	34.0	44.0	63.0	69.0	81.0	77.0
85°	4.0	4.0	4.0	6.0	9.0	13.0	17.0	27.0	28.0	36.0	33.0
87.5°	1.0	0.0	0.0	1.0	1.0	1.0	1.0	3.0	3.0	6.0	4.0
90°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
92.5°	5.0	5.0	5.0	7.0	8.0	7.0	8.0	6.0	6.0	5.0	5.0
95°	6.0	6.0	7.0	9.0	11.0	12.0	12.0	7.0	7.0	6.0	6.0
97.5°	8.0	9.0	9.0	11.0	18.0	33.0	20.0	10.0	10.0	9.0	8.0
100°	13.0	14.0	14.0	25.0	53.0	71.1	51.0	26.0	19.0	14.0	14.0
102.5°	42.0	44.0	54.0	81.1	120.1	109.1	92.1	87.1	60.0	48.0	46.0
105°	107.1	106.1	114.1	135.1	168.1	165.1	152.1	138.1	119.1	110.1	110.1
107.5°	141.1	141.1	148.1	166.1	191.1	223.2	226.2	179.1	157.1	147.1	146.1
110°	159.1	159.1	165.1	180.1	213.2	258.2	256.2	221.2	194.1	181.1	179.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	163.1	164.1	172.1	195.1	231.2	251.2	242.2	228.2	216.2	206.2	204.2
115°	169.1	169.1	178.1	200.2	220.2	228.2	218.2	207.2	199.2	195.1	197.1
117.5°	167.1	170.1	172.1	184.1	197.1	203.2	198.1	183.1	177.1	175.1	172.1
120°	155.1	155.1	157.1	163.1	170.1	173.1	171.1	161.1	156.1	155.1	153.1
122.5°	138.1	139.1	138.1	141.1	146.1	149.1	147.1	139.1	137.1	137.1	135.1
125°	121.1	121.1	120.1	122.1	125.1	124.1	125.1	121.1	120.1	120.1	119.1
127.5°	109.1	108.1	106.1	107.1	108.1	108.1	109.1	105.1	106.1	107.1	106.1
130°	97.1	97.1	95.1	95.1	95.1	93.1	95.1	93.1	94.1	95.1	96.1
132.5°	86.1	86.1	83.1	82.1	82.1	82.1	83.1	82.1	84.1	86.1	86.1
135°	77.1	77.1	74.1	75.1	75.1	74.1	75.1	74.1	76.1	77.1	77.1
137.5°	70.1	70.1	68.1	68.1	68.1	67.1	68.1	68.1	69.1	71.1	72.1
140°	64.0	64.0	63.0	63.0	62.0	63.0	63.0	63.0	64.0	65.0	65.0
142.5°	61.0	60.0	59.0	58.0	59.0	59.0	59.0	58.0	59.0	61.0	61.0
145°	56.0	56.0	55.0	55.0	55.0	56.0	55.0	55.0	56.0	56.0	57.0
147.5°	53.0	53.0	52.0	53.0	53.0	53.0	53.0	52.0	53.0	53.0	54.0
150°	52.0	51.0	50.0	51.0	51.0	50.0	50.0	50.0	50.0	51.0	51.0
152.5°	49.0	49.0	48.0	49.0	48.0	48.0	48.0	48.0	48.0	49.0	50.0
155°	47.0	47.0	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
157.5°	45.0	46.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.0
160°	44.0	44.0	44.0	44.0	43.0	43.0	43.0	44.0	44.0	44.0	45.0
162.5°	43.0	43.0	43.0	43.0	42.0	42.0	42.0	42.0	43.0	43.0	44.0
165°	43.0	42.0	42.0	42.0	41.0	41.0	41.0	41.0	42.0	43.0	42.0
167.5°	41.0	41.0	41.0	41.0	41.0	40.0	40.0	41.0	41.0	41.0	42.0
170°	41.0	41.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	41.0
172.5°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	40.0	40.0	41.0	41.0
175°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	41.0	41.0	41.0	40.0
177.5°	41.0	41.0	41.0	41.0	40.0	41.0	41.0	41.0	41.0	41.0	41.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

(END OF REPORT)