

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: P832859

Luminaire Tested: **TTN-D0-740-U-WQ-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832859
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-WQ-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1800.8 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

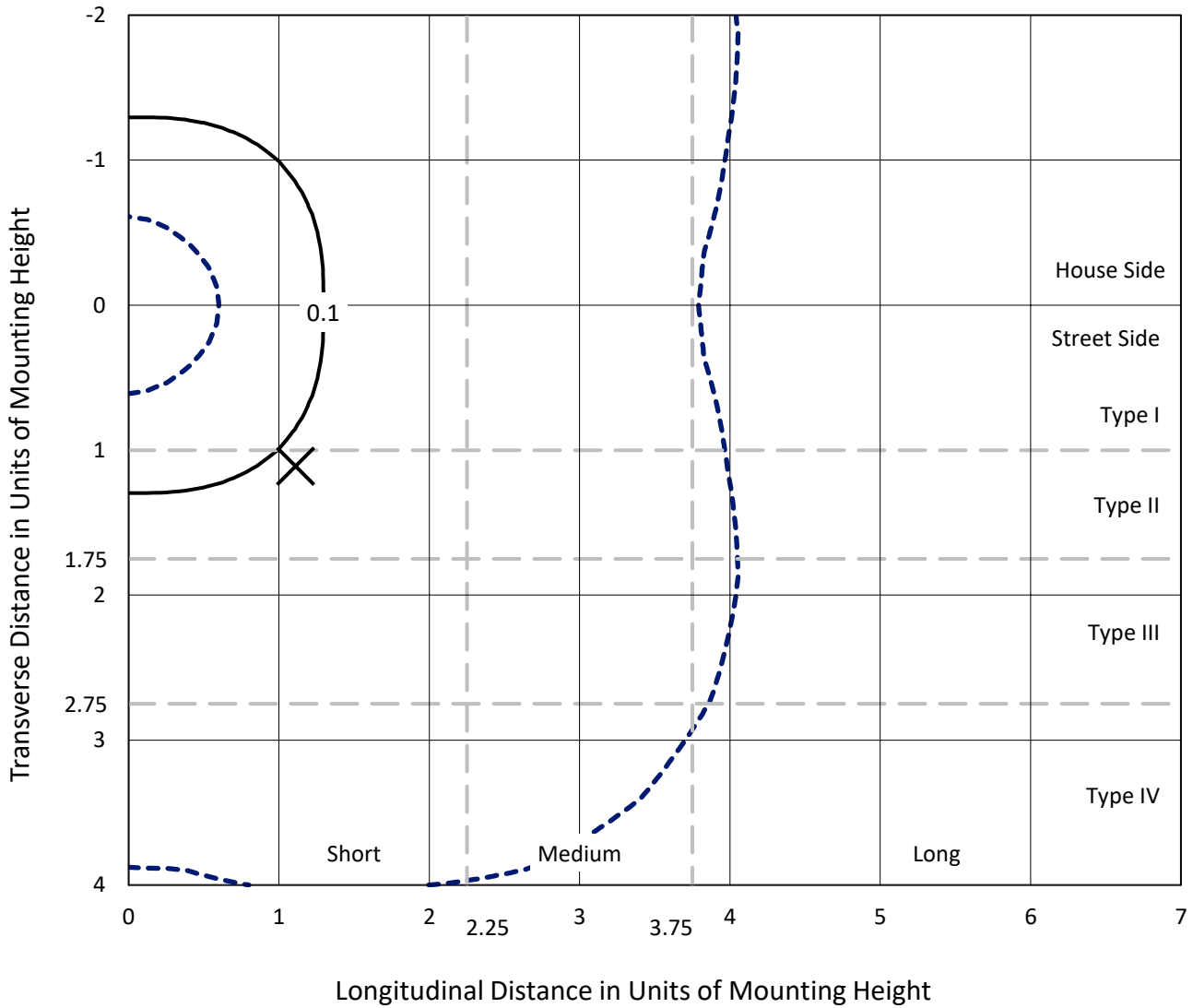
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

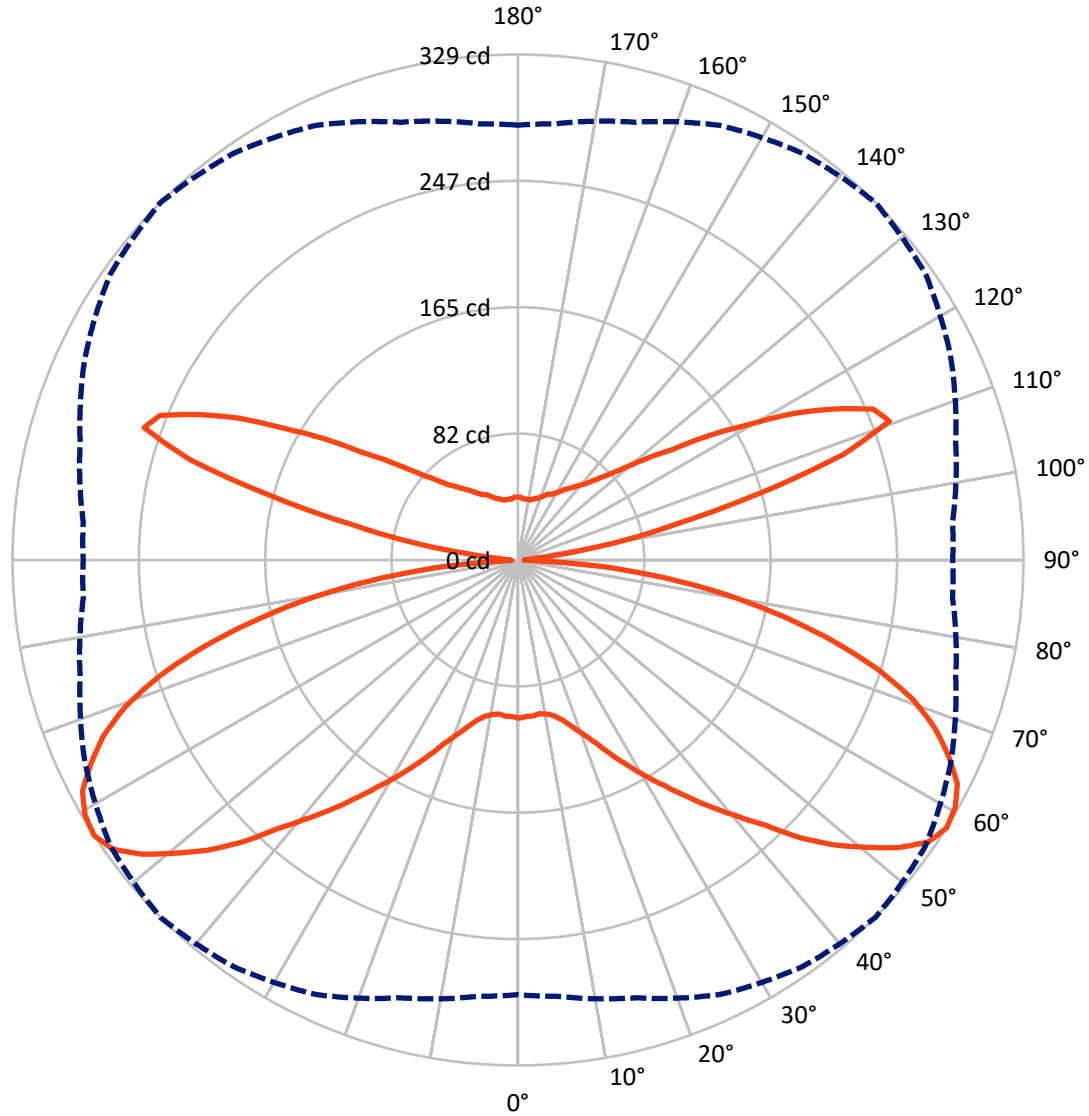
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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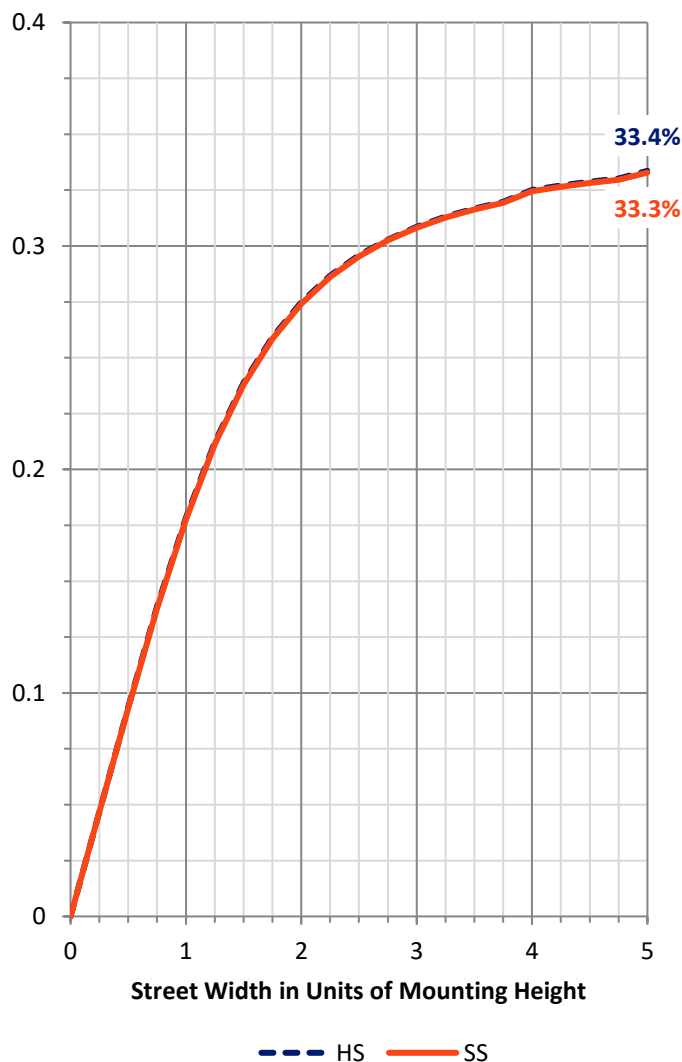
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	608.0	292.5	900.4
	% Fixture	33.8	16.2	50.0
Street Side	Lumens	608.0	292.5	900.4
	% Fixture	33.8	16.2	50.0
Total	Lumens	1215.9	584.9	1800.8
	% Fixture	67.5	32.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.5
10°-20°	30.9	1.7
20°-30°	64.8	3.6
30°-40°	117.6	6.5
40°-50°	191.7	10.6
50°-60°	268.3	14.9
60°-70°	280.1	15.6
70°-80°	200.2	11.1
80°-90°	52.6	2.9
90°-100°	13.1	0.7
100°-110°	132.7	7.4
110°-120°	194.0	10.8
120°-130°	112.6	6.3
130°-140°	59.7	3.3
140°-150°	35.4	2.0
150°-160°	21.8	1.2
160°-170°	11.9	0.7
170°-180°	3.9	0.2
0°-90°	1215.9	67.5
0°-180°	1800.8	100.0

Coefficient of Utilization



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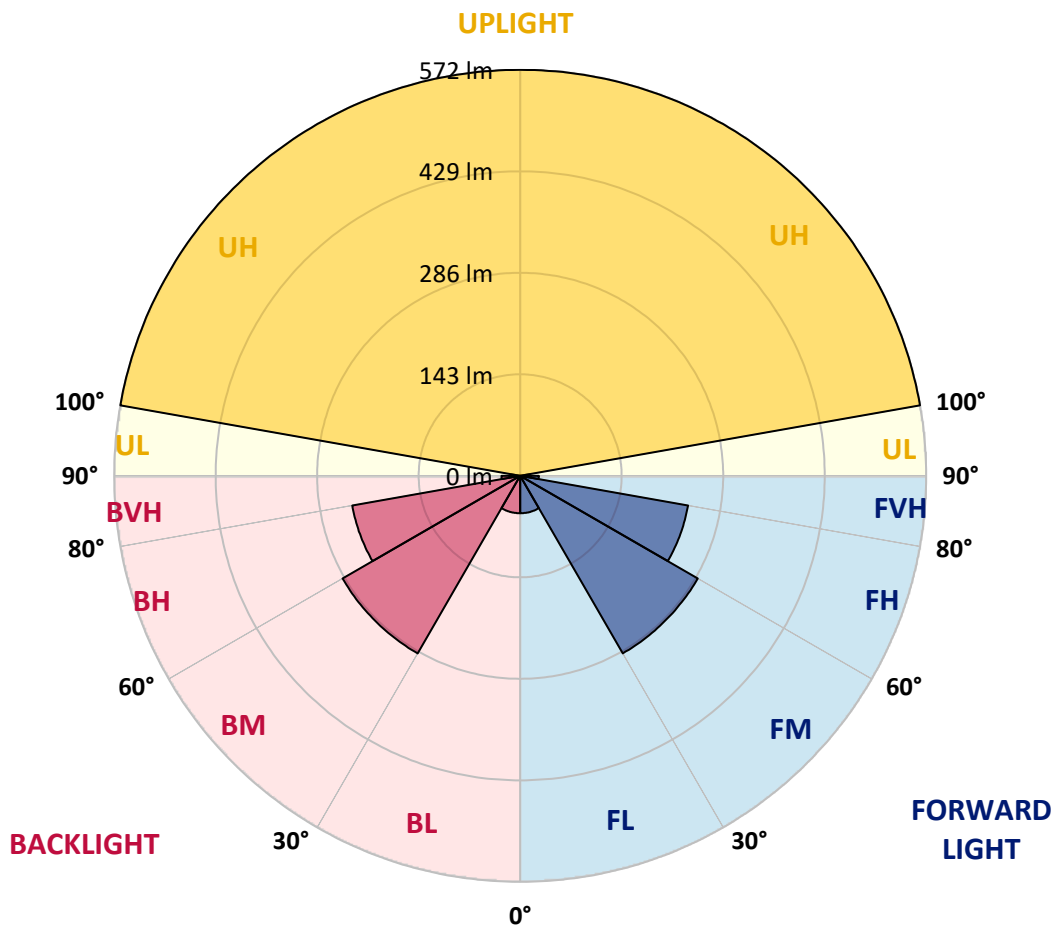
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	52.7	2.9			
FM (30°-60°)	288.8	16.0			
FH (60°-80°)	240.2	13.3			G0/660
FVH (80°-90°)	26.3	1.5			G1/100
BL (0°-30°)	52.7	2.9	B0/110		
BM (30°-60°)	288.8	16.0	B1/1000		
BH (60°-80°)	240.2	13.3	B1/500		G0/660
BVH (80°-90°)	26.3	1.5			G1/100
UL (90°-100°)	13.1	0.7		U2/50	
UH (100°-180°)	571.8	31.8		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°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
5°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
7.5°	100.0	100.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
10°	100.0	100.0	101.0	101.0	102.0	102.0	102.0	101.0	101.0	100.0	100.0
12.5°	102.0	102.0	102.0	103.0	104.0	104.0	104.0	103.0	103.0	102.0	102.0
15°	105.0	106.0	106.0	107.0	108.0	108.0	108.0	107.0	107.0	106.0	106.0
17.5°	111.0	111.0	111.0	112.0	113.0	114.0	114.0	112.0	112.0	111.0	112.0
20°	117.0	118.0	118.0	119.0	120.0	121.0	120.0	119.0	118.0	118.0	118.0
22.5°	126.0	126.0	127.0	127.0	129.0	129.0	129.0	127.0	127.0	127.0	127.0
25°	136.0	136.0	137.0	138.0	140.0	140.0	139.0	137.0	137.0	137.0	138.0
27.5°	148.0	148.0	149.0	149.0	151.0	151.0	150.0	149.0	149.0	149.0	150.0
30°	159.0	159.0	161.0	162.0	163.0	163.0	163.0	161.0	161.0	160.0	160.0
32.5°	169.0	170.0	171.0	174.0	176.0	175.0	176.0	174.0	172.0	171.0	171.0
35°	180.0	181.0	183.0	186.0	189.0	189.0	189.0	186.0	184.0	182.0	183.0
37.5°	193.0	193.0	196.0	199.0	203.0	204.0	203.0	200.0	197.0	195.0	195.0
40°	207.0	207.0	210.0	213.0	218.0	219.0	218.0	214.0	210.0	209.0	209.0
42.5°	221.0	221.0	225.0	228.0	234.0	236.0	234.0	229.0	225.0	222.0	223.0
45°	236.0	237.0	242.0	248.0	255.0	258.0	255.0	249.0	243.0	237.0	237.0
47.5°	253.0	253.0	259.0	266.0	274.0	277.0	273.0	267.0	259.0	254.0	254.0
50°	264.0	265.0	273.0	282.0	292.0	294.0	291.0	282.0	273.0	266.0	265.0
52.5°	275.0	276.0	285.0	298.0	308.0	311.0	307.0	298.0	285.0	276.0	276.0
55°	282.0	284.0	294.0	308.0	319.0	324.0	318.0	308.0	293.0	283.0	282.0
57.5°	283.0	285.0	295.0	312.0	323.0	329.0	324.0	311.0	295.0	284.0	283.0
60°	281.0	282.0	292.0	310.0	323.0	327.0	323.0	309.0	291.0	282.0	280.0
62.5°	276.0	278.0	288.0	303.0	318.0	321.0	317.0	302.0	287.0	276.0	274.0
65°	260.0	262.0	277.0	292.0	305.0	308.0	305.0	292.0	276.0	260.0	258.0
67.5°	242.0	243.0	258.0	276.0	288.0	293.0	288.0	277.0	257.0	242.0	240.0
70°	223.0	224.0	236.0	255.0	267.0	273.0	268.0	256.0	235.0	222.0	221.0
72.5°	201.0	201.0	213.0	228.0	240.0	246.0	242.0	227.0	211.0	198.0	196.0
75°	171.0	172.0	185.0	196.0	209.0	213.0	209.0	197.0	182.0	169.0	167.0
77.5°	140.0	141.0	152.0	161.0	173.0	176.0	173.0	163.0	149.0	138.0	137.0
80°	106.0	107.0	116.0	124.0	134.0	138.0	135.0	125.0	114.0	104.0	101.0
82.5°	69.0	70.0	79.0	85.0	94.0	97.0	95.0	86.0	77.0	67.0	66.0
85°	31.0	32.0	40.0	45.0	52.0	55.0	53.0	45.0	38.0	29.0	27.0
87.5°	3.0	3.0	3.0	3.0	3.0	4.0	4.0	3.0	3.0	3.0	3.0
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)