

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: P832841

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832841
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-MQ-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1817.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

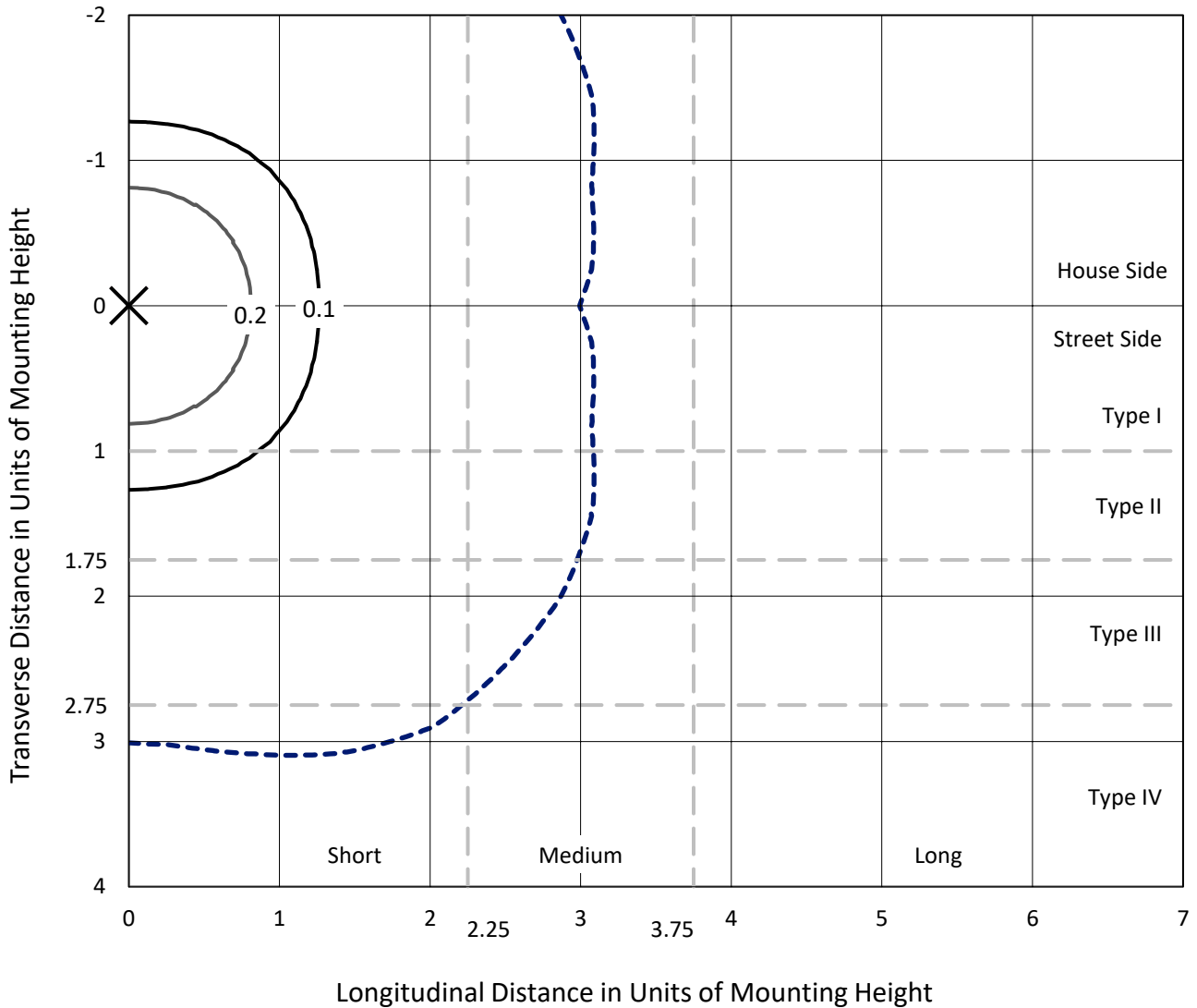
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

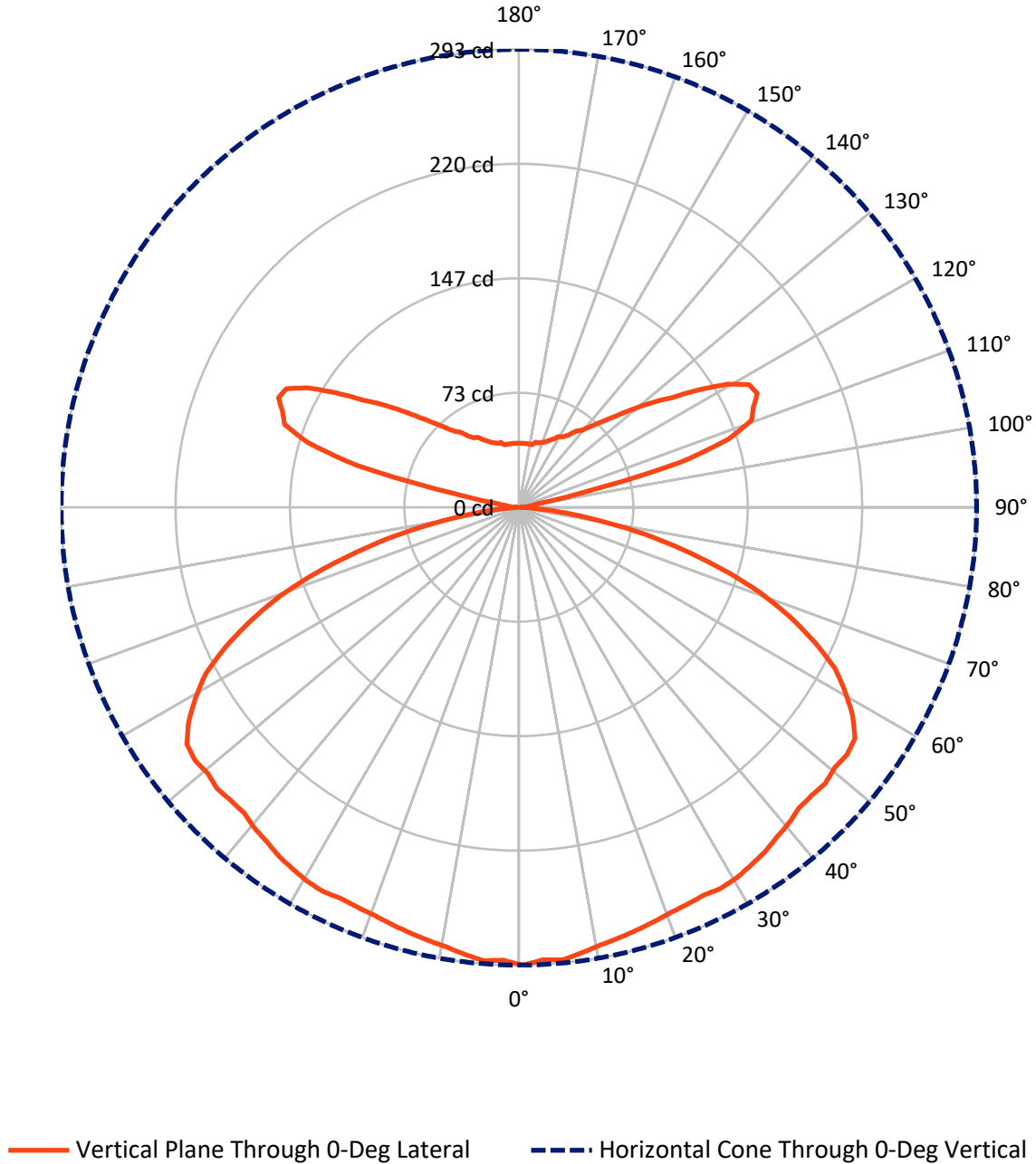
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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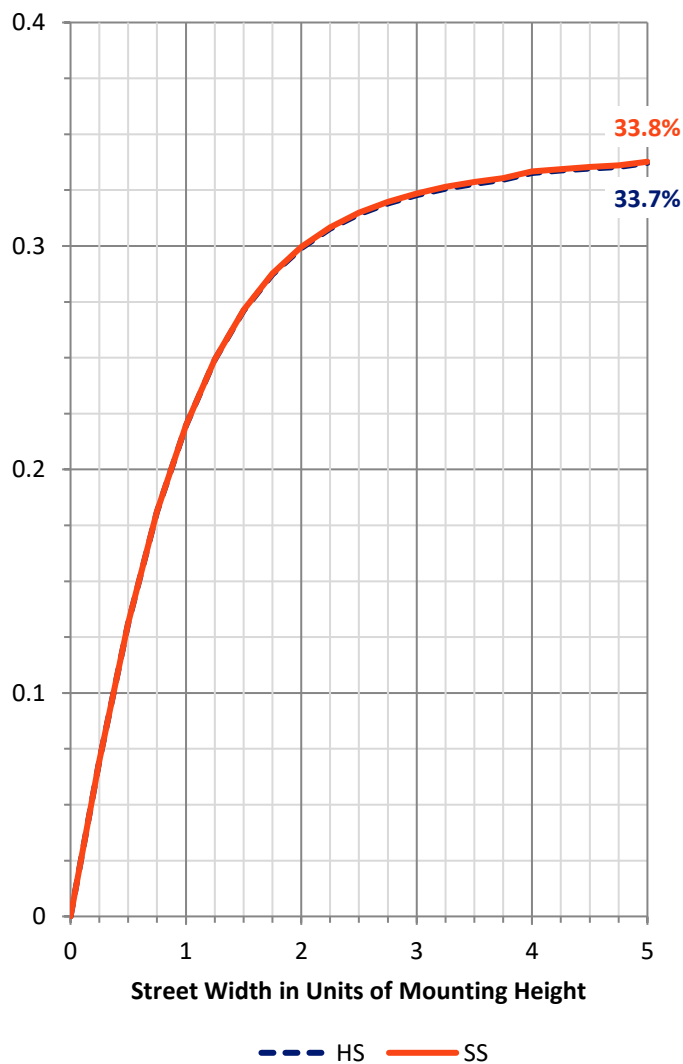
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	616.4	292.5	908.9
	% Fixture	33.9	16.1	50.0
Street Side	Lumens	616.4	292.5	908.9
	% Fixture	33.9	16.1	50.0
Total	Lumens	1232.8	584.9	1817.7
	% Fixture	67.8	32.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.5
10°-20°	79.6	4.4
20°-30°	128.1	7.0
30°-40°	171.1	9.4
40°-50°	207.9	11.4
50°-60°	241.6	13.3
60°-70°	222.9	12.3
70°-80°	130.4	7.2
80°-90°	23.6	1.3
90°-100°	13.1	0.7
100°-110°	132.7	7.3
110°-120°	194.0	10.7
120°-130°	112.6	6.2
130°-140°	59.7	3.3
140°-150°	35.4	1.9
150°-160°	21.8	1.2
160°-170°	11.9	0.7
170°-180°	3.9	0.2
0°-90°	1232.8	67.8
0°-180°	1817.7	100.0

Coefficient of Utilization



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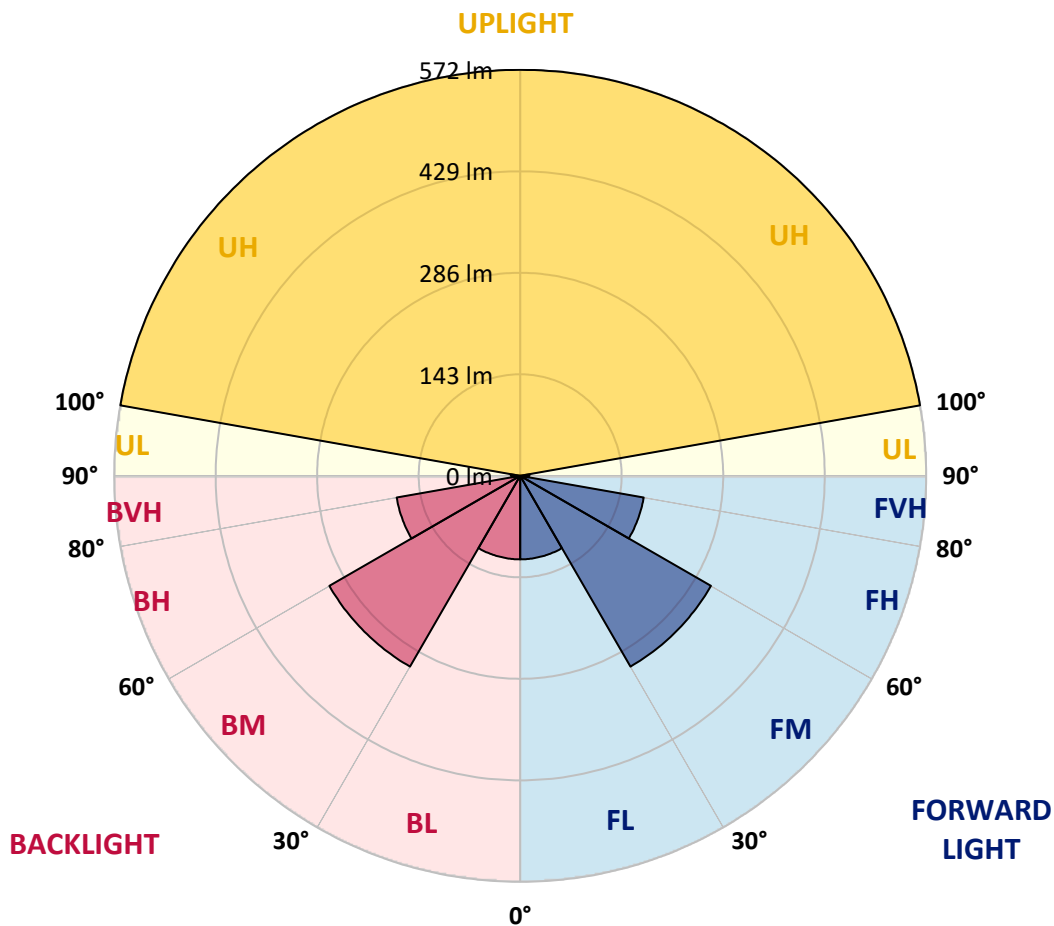
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.6	6.5			
FM (30°-60°)	310.3	17.1			
FH (60°-80°)	176.7	9.7			G0/660
FVH (80°-90°)	11.8	0.7			G1/100
BL (0°-30°)	117.6	6.5	B1/500		
BM (30°-60°)	310.3	17.1	B1/1000		
BH (60°-80°)	176.7	9.7	B1/500		G0/660
BVH (80°-90°)	11.8	0.7			G1/100
UL (90°-100°)	13.1	0.7		U2/50	
UH (100°-180°)	571.8	31.5		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°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1
2.5°	290.1	291.1	290.1	290.1	290.1	290.1	290.1	290.1	290.1	290.1	291.1
5°	291.1	291.1	291.1	291.1	290.1	290.1	290.1	290.1	290.1	291.1	291.1
7.5°	288.1	288.1	288.1	288.1	288.1	287.1	288.1	288.1	288.1	288.1	288.1
10°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
12.5°	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	282.1	282.1
15°	281.1	281.1	281.1	281.1	282.1	282.1	281.1	281.1	281.1	281.1	281.1
17.5°	279.1	279.1	279.1	279.1	280.1	280.1	280.1	279.1	279.1	279.1	279.1
20°	277.1	277.1	277.1	277.1	278.1	278.1	278.1	278.1	278.1	277.1	277.1
22.5°	276.1	276.1	276.1	276.1	277.1	277.1	277.1	277.1	276.1	276.1	276.1
25°	275.1	276.1	276.1	276.1	277.1	278.1	278.1	277.1	276.1	275.1	275.1
27.5°	276.1	276.1	276.1	277.1	277.1	278.1	278.1	277.1	276.1	276.1	276.1
30°	275.1	275.1	275.1	276.1	277.1	278.1	277.1	277.1	276.1	275.1	275.1
32.5°	273.1	273.1	274.1	275.1	276.1	276.1	276.1	275.1	274.1	273.1	273.1
35°	271.1	271.1	271.1	272.1	274.1	274.1	274.1	273.1	272.1	271.1	270.1
37.5°	268.1	269.1	269.1	271.1	272.1	273.1	272.1	271.1	269.1	268.1	268.1
40°	266.1	266.1	267.1	269.1	271.1	271.1	270.1	269.1	267.1	266.1	266.1
42.5°	263.1	263.1	265.1	267.1	270.1	270.1	269.1	267.1	265.1	263.1	263.1
45°	263.1	263.1	265.1	269.1	271.1	273.1	271.1	269.1	265.1	263.1	262.1
47.5°	264.1	264.1	266.1	271.1	275.1	277.1	274.1	270.1	266.1	264.1	263.1
50°	262.1	263.1	267.1	272.1	277.1	278.1	277.1	271.1	267.1	262.1	262.1
52.5°	263.1	263.1	268.1	276.1	281.1	283.1	281.1	276.1	267.1	262.1	262.1
55°	261.1	260.1	267.1	276.1	284.1	288.1	284.1	276.1	266.1	260.1	259.1
57.5°	252.1	252.1	261.1	270.1	280.1	282.1	279.1	270.1	260.1	252.1	250.1
60°	240.1	241.1	250.1	260.1	269.1	270.1	268.1	260.1	250.1	241.1	238.1
62.5°	227.1	229.1	238.1	248.1	259.1	261.1	258.1	248.1	236.1	230.1	225.1
65°	208.1	211.1	221.1	232.1	244.1	243.1	243.1	231.1	222.1	212.1	207.1
67.5°	187.1	190.1	197.1	212.1	222.1	221.1	220.1	212.1	197.1	190.1	187.1
70°	164.1	166.1	173.1	188.1	197.1	198.1	195.1	187.1	173.1	168.1	163.1
72.5°	137.0	138.0	148.0	160.0	169.1	168.1	167.1	160.0	147.0	142.0	136.0
75°	108.0	109.0	118.0	129.0	136.0	135.0	134.0	129.0	118.0	112.0	107.0
77.5°	81.0	80.0	89.0	97.0	101.0	102.0	100.0	96.0	88.0	83.0	80.0
80°	53.0	52.0	60.0	66.0	69.0	69.0	68.0	65.0	59.0	55.0	53.0
82.5°	30.0	29.0	34.0	38.0	41.0	40.0	39.0	37.0	34.0	31.0	29.0
85°	11.0	11.0	14.0	16.0	18.0	18.0	17.0	16.0	13.0	12.0	11.0
87.5°	1.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
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)