

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: P832810

Luminaire Tested: **TTN-D0-735-U-MQ-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832810
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-D0-735-U-MQ-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1468.9 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

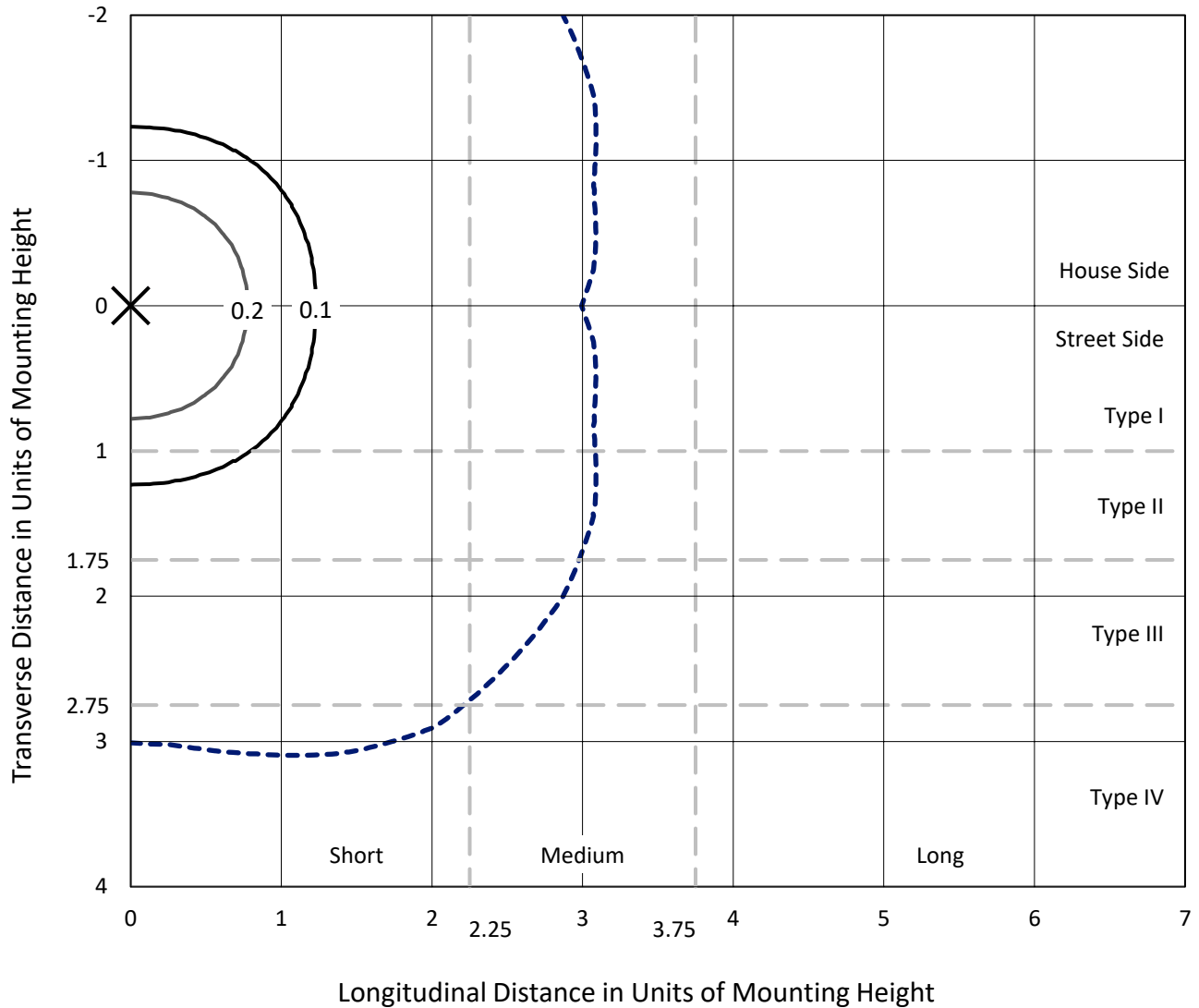
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

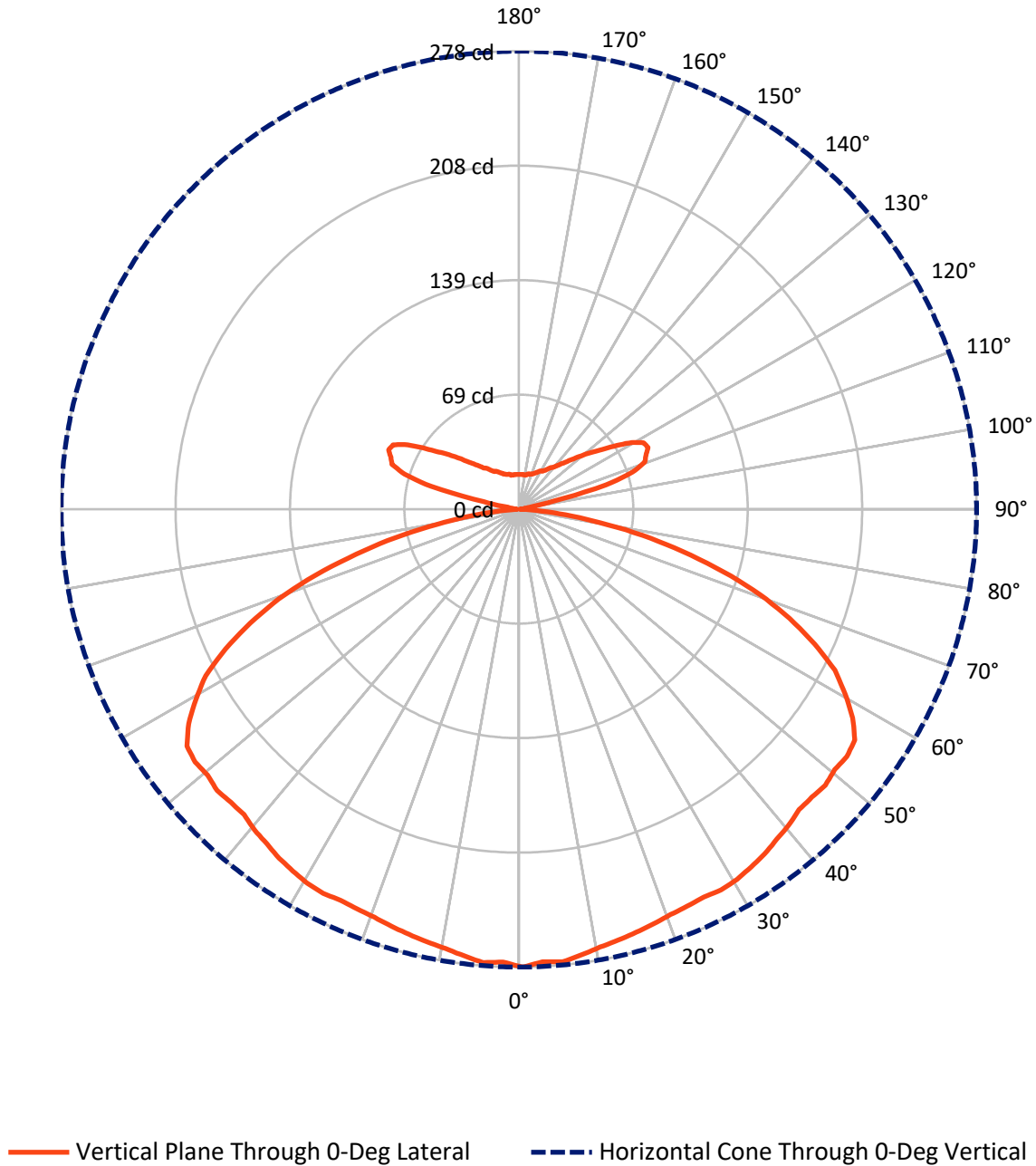
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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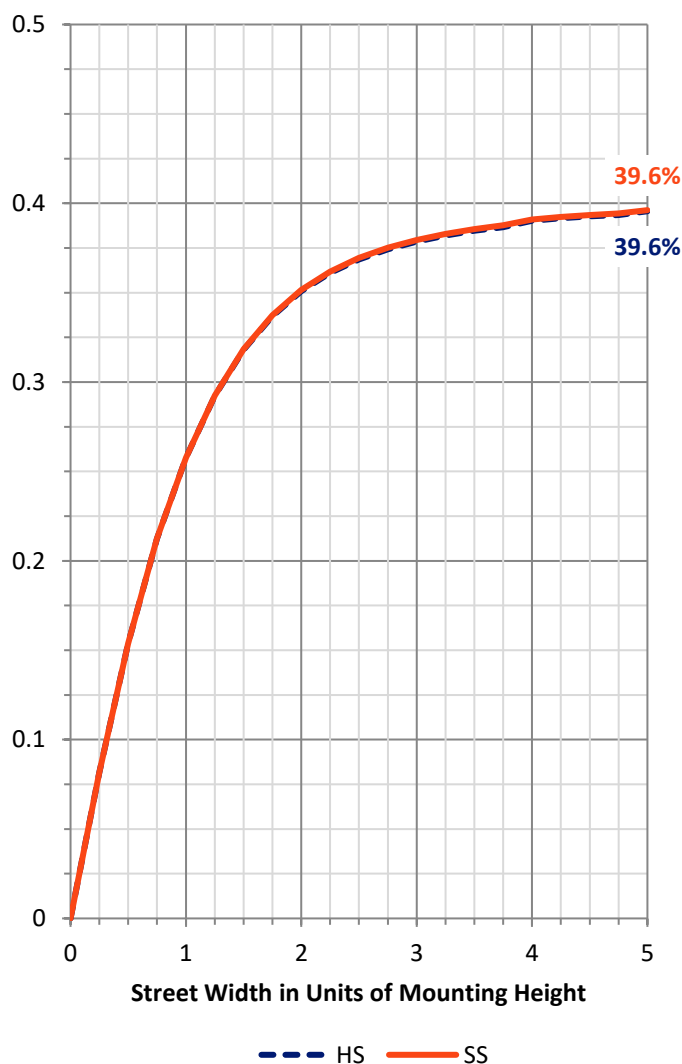
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.2	150.2	734.4
	% Fixture	39.8	10.2	50.0
Street Side	Lumens	584.2	150.2	734.4
	% Fixture	39.8	10.2	50.0
Total	Lumens	1168.4	300.5	1468.9
	% Fixture	79.5	20.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	1.8
10°-20°	75.5	5.1
20°-30°	121.4	8.3
30°-40°	162.2	11.0
40°-50°	197.1	13.4
50°-60°	229.0	15.6
60°-70°	211.3	14.4
70°-80°	123.7	8.4
80°-90°	22.1	1.5
90°-100°	6.7	0.5
100°-110°	68.2	4.6
110°-120°	99.6	6.8
120°-130°	57.8	3.9
130°-140°	30.6	2.1
140°-150°	18.2	1.2
150°-160°	11.2	0.8
160°-170°	6.1	0.4
170°-180°	2.0	0.1
0°-90°	1168.4	79.5
0°-180°	1468.9	100.0

Coefficient of Utilization



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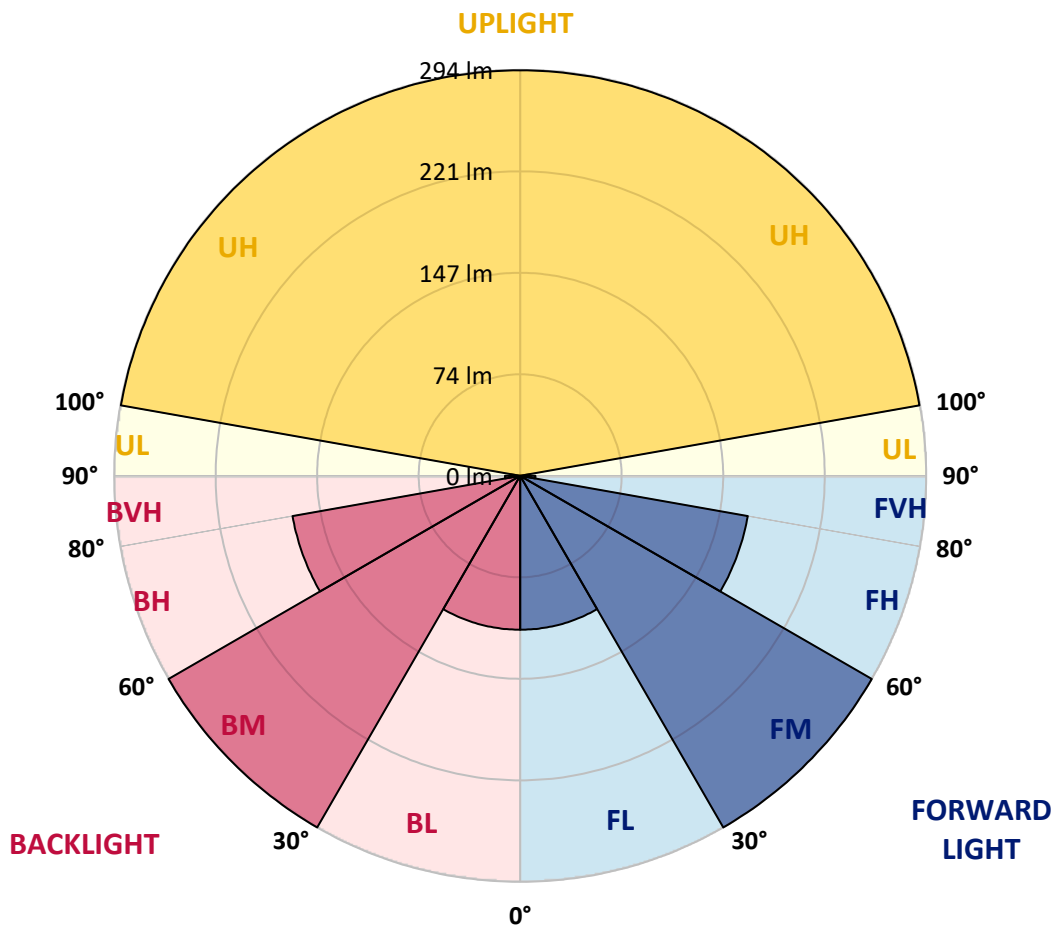
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	111.5	7.6			
FM (30°-60°)	294.2	20.0			
FH (60°-80°)	167.5	11.4			G0/660
FVH (80°-90°)	11.0	0.8			G1/100
BL (0°-30°)	111.5	7.6	B1/500		
BM (30°-60°)	294.2	20.0	B1/1000		
BH (60°-80°)	167.5	11.4	B1/500		G0/660
BVH (80°-90°)	11.0	0.8			G1/100
UL (90°-100°)	6.7	0.5		U1/10	
UH (100°-180°)	293.8	20.0		U3/500	

BUG Rating: B1-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9
2.5°	275.0	276.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0	276.0
5°	276.0	276.0	276.0	276.0	275.0	275.0	275.0	275.0	275.0	276.0	276.0
7.5°	273.1	273.1	273.1	273.1	273.1	272.2	273.1	273.1	273.1	273.1	273.1
10°	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3
12.5°	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	268.4	267.4	267.4
15°	266.5	266.5	266.5	266.5	267.4	267.4	266.5	266.5	266.5	266.5	266.5
17.5°	264.6	264.6	264.6	264.6	265.5	265.5	265.5	264.6	264.6	264.6	264.6
20°	262.7	262.7	262.7	262.7	263.6	263.6	263.6	263.6	263.6	262.7	262.7
22.5°	261.7	261.7	261.7	261.7	262.7	262.7	262.7	262.7	261.7	261.7	261.7
25°	260.8	261.7	261.7	261.7	262.7	263.6	263.6	262.7	261.7	260.8	260.8
27.5°	261.7	261.7	261.7	262.7	262.7	263.6	263.6	262.7	261.7	261.7	261.7
30°	260.8	260.8	260.8	261.7	262.7	263.6	262.7	262.7	261.7	260.8	260.8
32.5°	258.9	258.9	259.8	260.8	261.7	261.7	261.7	260.8	259.8	258.9	258.9
35°	257.0	257.0	257.0	257.9	259.8	259.8	259.8	258.9	257.9	257.0	256.1
37.5°	254.2	255.1	255.1	257.0	257.9	258.9	257.9	257.0	255.1	254.2	254.2
40°	252.3	252.3	253.2	255.1	257.0	257.0	256.1	255.1	253.2	252.3	252.3
42.5°	249.4	249.4	251.3	253.2	256.1	256.1	255.1	253.2	251.3	249.4	249.4
45°	249.4	249.4	251.3	255.1	257.0	258.9	257.0	255.1	251.3	249.4	248.5
47.5°	250.4	250.4	252.3	257.0	260.8	262.7	259.8	256.1	252.3	250.4	249.4
50°	248.5	249.4	253.2	257.9	262.7	263.6	262.7	257.0	253.2	248.5	248.5
52.5°	249.4	249.4	254.2	261.7	266.5	268.4	266.5	261.7	253.2	248.5	248.5
55°	247.5	246.6	253.2	261.7	269.3	273.1	269.3	261.7	252.3	246.6	245.6
57.5°	239.0	239.0	247.5	256.1	265.5	267.4	264.6	256.1	246.6	239.0	237.1
60°	227.6	228.6	237.1	246.6	255.1	256.1	254.2	246.6	237.1	228.6	225.7
62.5°	215.3	217.2	225.7	235.2	245.6	247.5	244.7	235.2	223.8	218.1	213.4
65°	197.3	200.1	209.6	220.0	231.4	230.4	230.4	219.1	210.5	201.0	196.3
67.5°	177.3	180.2	186.8	201.0	210.5	209.6	208.6	201.0	186.8	180.2	177.3
70°	155.5	157.4	164.1	178.3	186.8	187.8	184.9	177.3	164.1	159.3	154.6
72.5°	129.9	130.9	140.4	151.7	160.3	159.3	158.4	151.7	139.4	134.7	129.0
75°	102.4	103.4	111.9	122.3	129.0	128.0	127.1	122.3	111.9	106.2	101.5
77.5°	76.8	75.9	84.4	92.0	95.8	96.7	94.8	91.0	83.5	78.7	75.9
80°	50.3	49.3	56.9	62.6	65.4	65.4	64.5	61.6	56.0	52.2	50.3
82.5°	28.5	27.5	32.2	36.0	38.9	37.9	37.0	35.1	32.2	29.4	27.5
85°	10.4	10.4	13.3	15.2	17.1	17.1	16.1	15.2	12.3	11.4	10.4
87.5°	0.9	0.9	1.9	2.8	2.8	2.8	1.9	1.9	0.9	0.9	0.9
90°	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6
92.5°	2.6	2.6	2.6	3.6	4.1	3.6	4.1	3.1	3.1	2.6	2.6
95°	3.1	3.1	3.6	4.6	5.7	6.2	6.2	3.6	3.6	3.1	3.1
97.5°	4.1	4.6	4.6	5.7	9.3	17.0	10.3	5.1	5.1	4.6	4.1
100°	6.7	7.2	7.2	12.9	27.2	36.5	26.2	13.4	9.8	7.2	7.2
102.5°	21.6	22.6	27.8	41.6	61.7	56.0	47.3	44.7	30.8	24.7	23.6
105°	55.0	54.5	58.6	69.4	86.4	84.8	78.1	70.9	61.2	56.5	56.5
107.5°	72.5	72.5	76.1	85.3	98.2	114.6	116.2	92.0	80.7	75.6	75.0
110°	81.7	81.7	84.8	92.5	109.5	132.6	131.6	113.6	99.7	93.0	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.8	84.3	88.4	100.2	118.7	129.0	124.4	117.2	111.0	105.9	104.9
115°	86.9	86.9	91.5	102.8	113.1	117.2	112.1	106.4	102.3	100.2	101.3
117.5°	85.8	87.4	88.4	94.6	101.3	104.4	101.8	94.1	91.0	90.0	88.4
120°	79.7	79.7	80.7	83.8	87.4	88.9	87.9	82.8	80.2	79.7	78.6
122.5°	70.9	71.5	70.9	72.5	75.0	76.6	75.6	71.5	70.4	70.4	69.4
125°	62.2	62.2	61.7	62.7	64.3	63.7	64.3	62.2	61.7	61.7	61.2
127.5°	56.0	55.5	54.5	55.0	55.5	55.5	56.0	54.0	54.5	55.0	54.5
130°	49.9	49.9	48.8	48.8	48.8	47.8	48.8	47.8	48.3	48.8	49.3
132.5°	44.2	44.2	42.7	42.2	42.2	42.2	42.7	42.2	43.2	44.2	44.2
135°	39.6	39.6	38.0	38.6	38.6	38.0	38.6	38.0	39.1	39.6	39.6
137.5°	36.0	36.0	35.0	35.0	35.0	34.4	35.0	35.0	35.5	36.5	37.0
140°	32.9	32.9	32.4	32.4	31.9	32.4	32.4	32.4	32.9	33.4	33.4
142.5°	31.4	30.8	30.3	29.8	30.3	30.3	30.3	29.8	30.3	31.4	31.4
145°	28.8	28.8	28.3	28.3	28.3	28.8	28.3	28.3	28.8	28.8	29.3
147.5°	27.2	27.2	26.7	27.2	27.2	27.2	27.2	26.7	27.2	27.2	27.8
150°	26.7	26.2	25.7	26.2	26.2	25.7	25.7	25.7	25.7	26.2	26.2
152.5°	25.2	25.2	24.7	25.2	24.7	24.7	24.7	24.7	24.7	25.2	25.7
155°	24.2	24.2	23.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
157.5°	23.1	23.6	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.6	23.6
160°	22.6	22.6	22.6	22.6	22.1	22.1	22.1	22.6	22.6	22.6	23.1
162.5°	22.1	22.1	22.1	22.1	21.6	21.6	21.6	21.6	22.1	22.1	22.6
165°	22.1	21.6	21.6	21.6	21.1	21.1	21.1	21.1	21.6	22.1	21.6
167.5°	21.1	21.1	21.1	21.1	21.1	20.6	20.6	21.1	21.1	21.1	21.6
170°	21.1	21.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.1
172.5°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	20.6	20.6	21.1	21.1
175°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	21.1	21.1	21.1	20.6
177.5°	21.1	21.1	21.1	21.1	20.6	21.1	21.1	21.1	21.1	21.1	21.1
180°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

(END OF REPORT)