

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: P832874

Luminaire Tested: **TTN-D0-750-U-MQ-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832874
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-D0-750-U-MQ-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1859.5 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

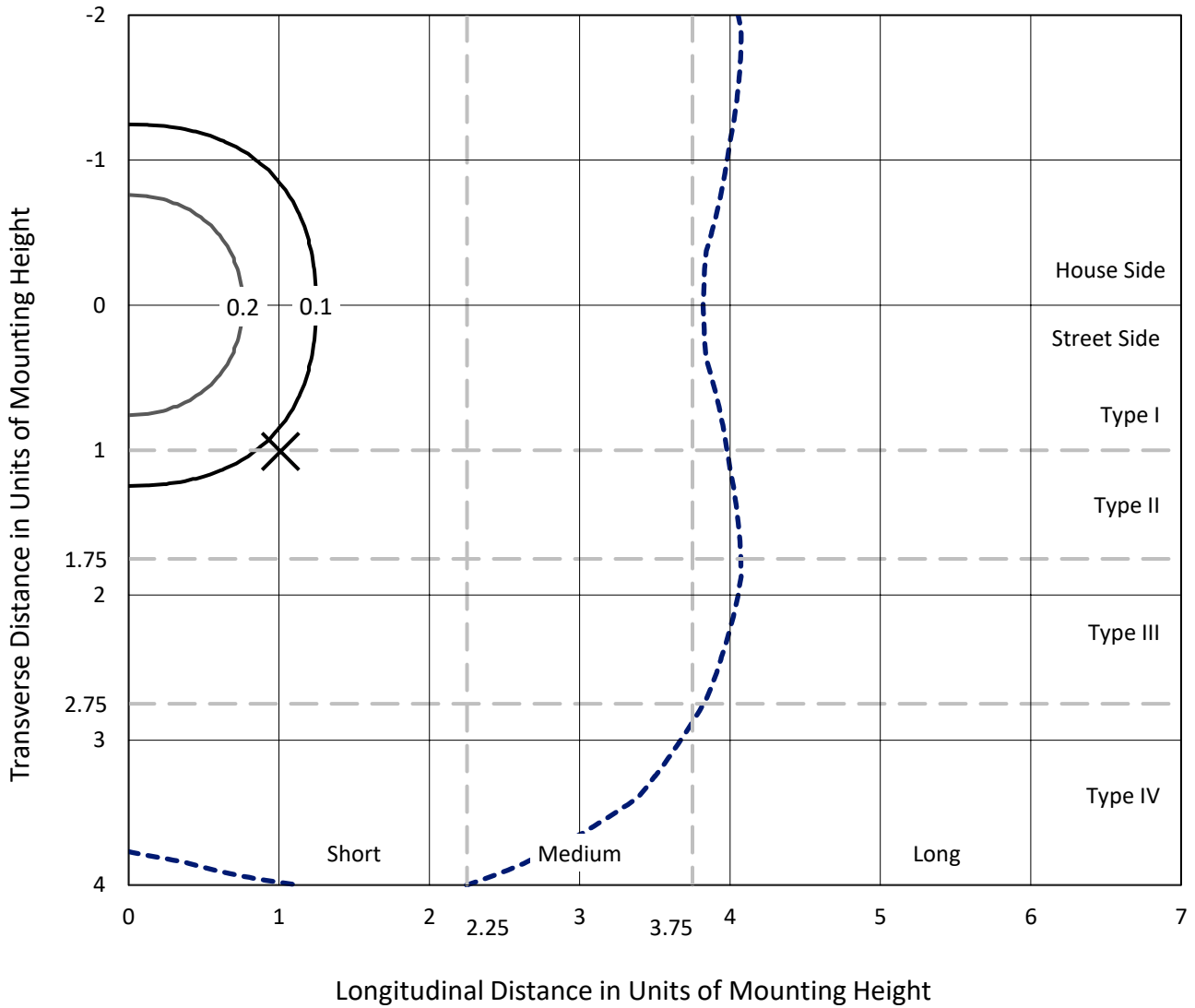
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

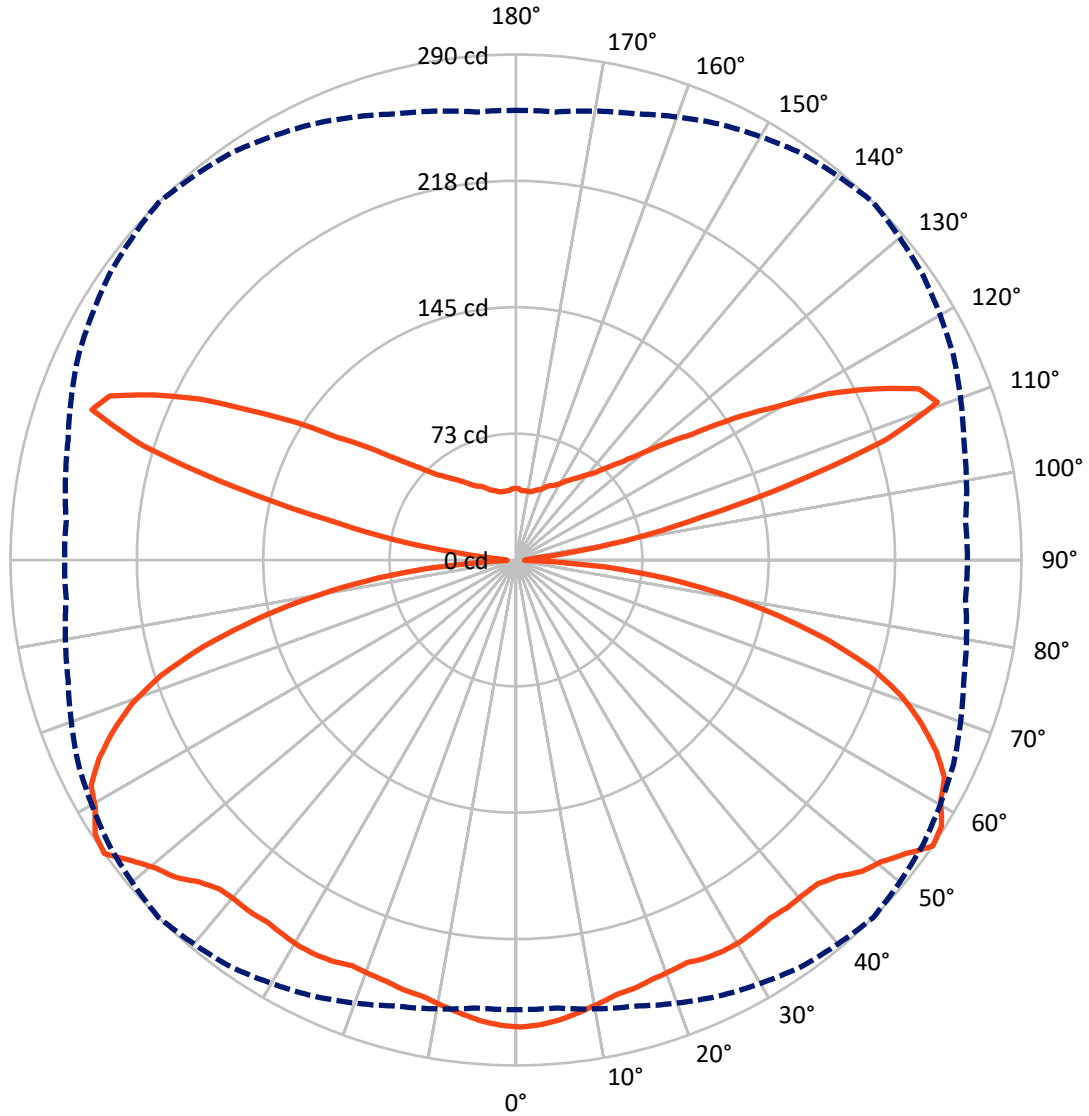
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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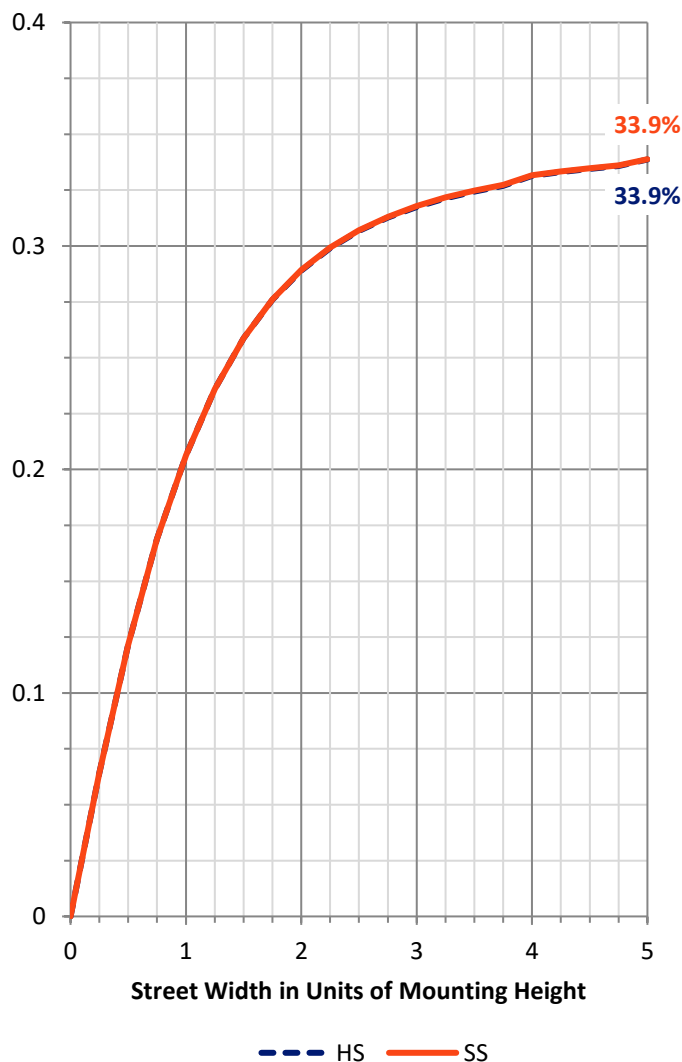
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.3	292.5	929.8
	% Fixture	34.3	15.7	50.0
Street Side	Lumens	637.3	292.5	929.8
	% Fixture	34.3	15.7	50.0
Total	Lumens	1274.6	584.9	1859.5
	% Fixture	68.5	31.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	1.3
10°-20°	72.0	3.9
20°-30°	116.4	6.3
30°-40°	157.5	8.5
40°-50°	197.3	10.6
50°-60°	241.7	13.0
60°-70°	242.3	13.0
70°-80°	174.9	9.4
80°-90°	47.4	2.5
90°-100°	13.1	0.7
100°-110°	132.7	7.1
110°-120°	194.0	10.4
120°-130°	112.6	6.1
130°-140°	59.7	3.2
140°-150°	35.4	1.9
150°-160°	21.8	1.2
160°-170°	11.9	0.6
170°-180°	3.9	0.2
0°-90°	1274.6	68.5
0°-180°	1859.5	100.0

Coefficient of Utilization



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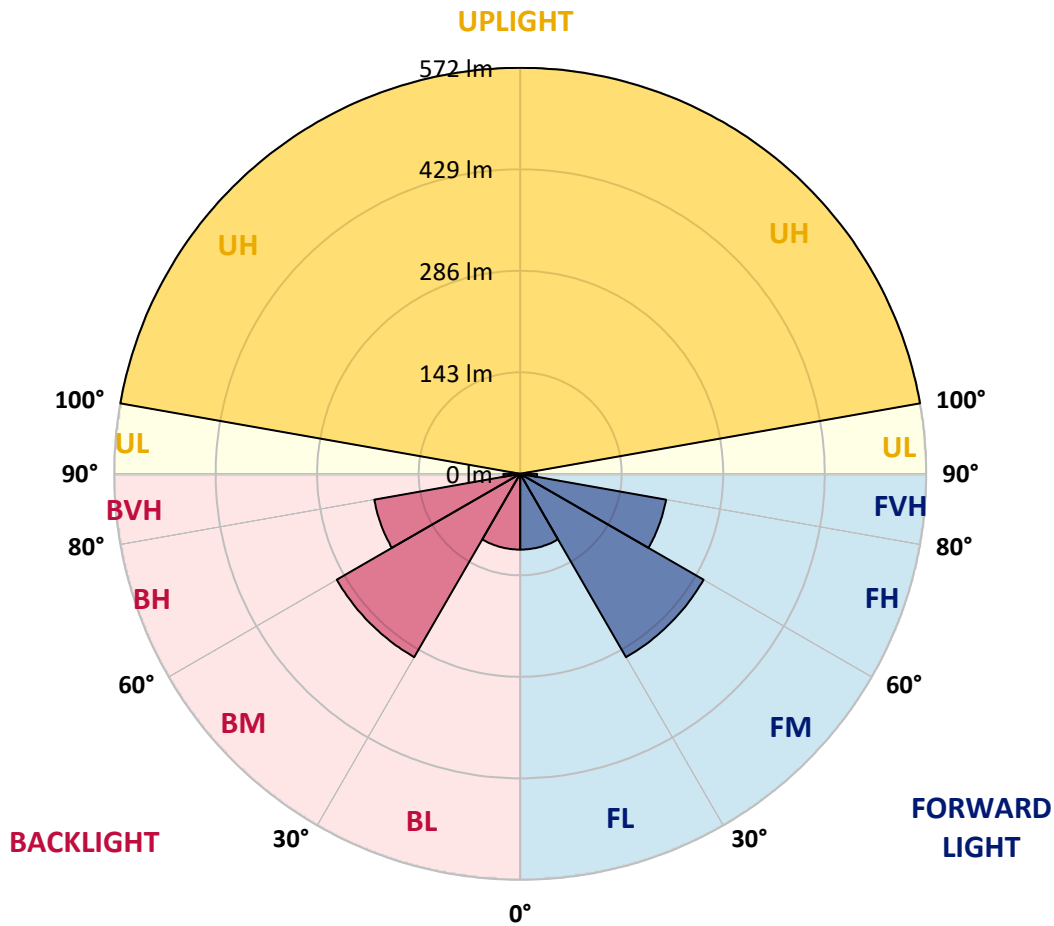
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.7	5.7			
FM	(30°-60°)	298.3	16.0			
FH	(60°-80°)	208.6	11.2			G0/660
FVH	(80°-90°)	23.7	1.3			G1/100
BL	(0°-30°)	106.7	5.7	B0/110		
BM	(30°-60°)	298.3	16.0	B1/1000		
BH	(60°-80°)	208.6	11.2	B1/500		G0/660
BVH	(80°-90°)	23.7	1.3			G1/100
UL	(90°-100°)	13.1	0.7		U2/50	
UH	(100°-180°)	571.8	30.8		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°	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0
2.5°	267.0	267.0	267.0	266.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0
5°	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0
7.5°	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0
10°	258.0	258.0	258.0	258.0	259.0	259.0	259.0	259.0	258.0	258.0	258.0
12.5°	255.0	255.0	255.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	255.0
15°	254.0	254.0	254.0	254.0	255.0	255.0	255.0	255.0	254.0	254.0	254.0
17.5°	252.0	252.0	252.0	253.0	253.0	253.0	253.0	253.0	252.0	252.0	252.0
20°	250.0	250.0	251.0	251.0	252.0	252.0	252.0	251.0	251.0	250.0	251.0
22.5°	250.0	250.0	250.0	251.0	251.0	251.0	251.0	250.0	250.0	250.0	250.0
25°	250.0	250.0	251.0	252.0	252.0	253.0	252.0	251.0	250.0	250.0	250.0
27.5°	251.0	251.0	252.0	253.0	253.0	254.0	253.0	252.0	251.0	251.0	251.0
30°	251.0	251.0	252.0	253.0	253.0	254.0	253.0	252.0	251.0	251.0	251.0
32.5°	249.0	250.0	251.0	252.0	253.0	253.0	253.0	252.0	251.0	250.0	250.0
35°	248.0	249.0	250.0	251.0	252.0	252.0	252.0	251.0	250.0	249.0	249.0
37.5°	247.0	247.0	249.0	250.0	251.0	253.0	252.0	250.0	249.0	248.0	248.0
40°	246.0	247.0	248.0	250.0	251.0	253.0	252.0	250.0	248.0	247.0	247.0
42.5°	246.0	246.0	248.0	250.0	252.0	254.0	253.0	251.0	248.0	247.0	246.0
45°	247.0	248.0	251.0	255.0	257.0	259.0	258.0	255.0	250.0	248.0	247.0
47.5°	251.0	252.0	255.0	259.0	264.0	267.0	264.0	259.0	255.0	252.0	251.0
50°	253.0	254.0	259.0	264.0	271.0	272.0	271.0	264.0	259.0	254.0	254.0
52.5°	257.0	257.0	263.0	272.0	278.0	280.0	278.0	273.0	263.0	258.0	257.0
55°	258.0	258.0	265.0	276.0	285.0	290.0	285.0	277.0	266.0	259.0	259.0
57.5°	252.0	254.0	263.0	274.0	285.0	288.0	285.0	275.0	264.0	255.0	254.0
60°	245.0	248.0	256.0	269.0	277.0	280.0	278.0	269.0	257.0	248.0	247.0
62.5°	238.0	242.0	251.0	261.0	273.0	276.0	273.0	261.0	251.0	242.0	238.0
65°	223.0	227.0	240.0	252.0	263.0	265.0	264.0	252.0	240.0	227.0	225.0
67.5°	208.0	211.0	220.0	239.0	248.0	251.0	249.0	238.0	221.0	211.0	210.0
70°	192.0	195.0	203.0	221.0	230.0	235.0	231.0	221.0	203.0	195.0	194.0
72.5°	171.0	175.0	184.0	200.0	209.0	214.0	210.0	200.0	184.0	174.0	172.0
75°	146.0	149.0	160.0	173.0	182.0	186.0	183.0	174.0	160.0	149.0	148.0
77.5°	119.0	122.0	132.0	145.0	150.0	154.0	151.0	144.0	132.0	122.0	121.0
80°	90.0	93.0	102.0	112.0	117.0	121.0	118.0	111.0	102.0	93.0	92.0
82.5°	59.0	62.0	70.0	78.0	83.0	87.0	84.0	77.0	71.0	62.0	61.0
85°	25.0	28.0	35.0	43.0	47.0	51.0	48.0	42.0	35.0	29.0	28.0
87.5°	2.0	3.0	3.0	4.0	3.0	5.0	3.0	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)