

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: P833243

Luminaire Tested: **TTN-D1-750-U-WQ-CG-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833243  
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-D1-750-U-WQ-CG-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

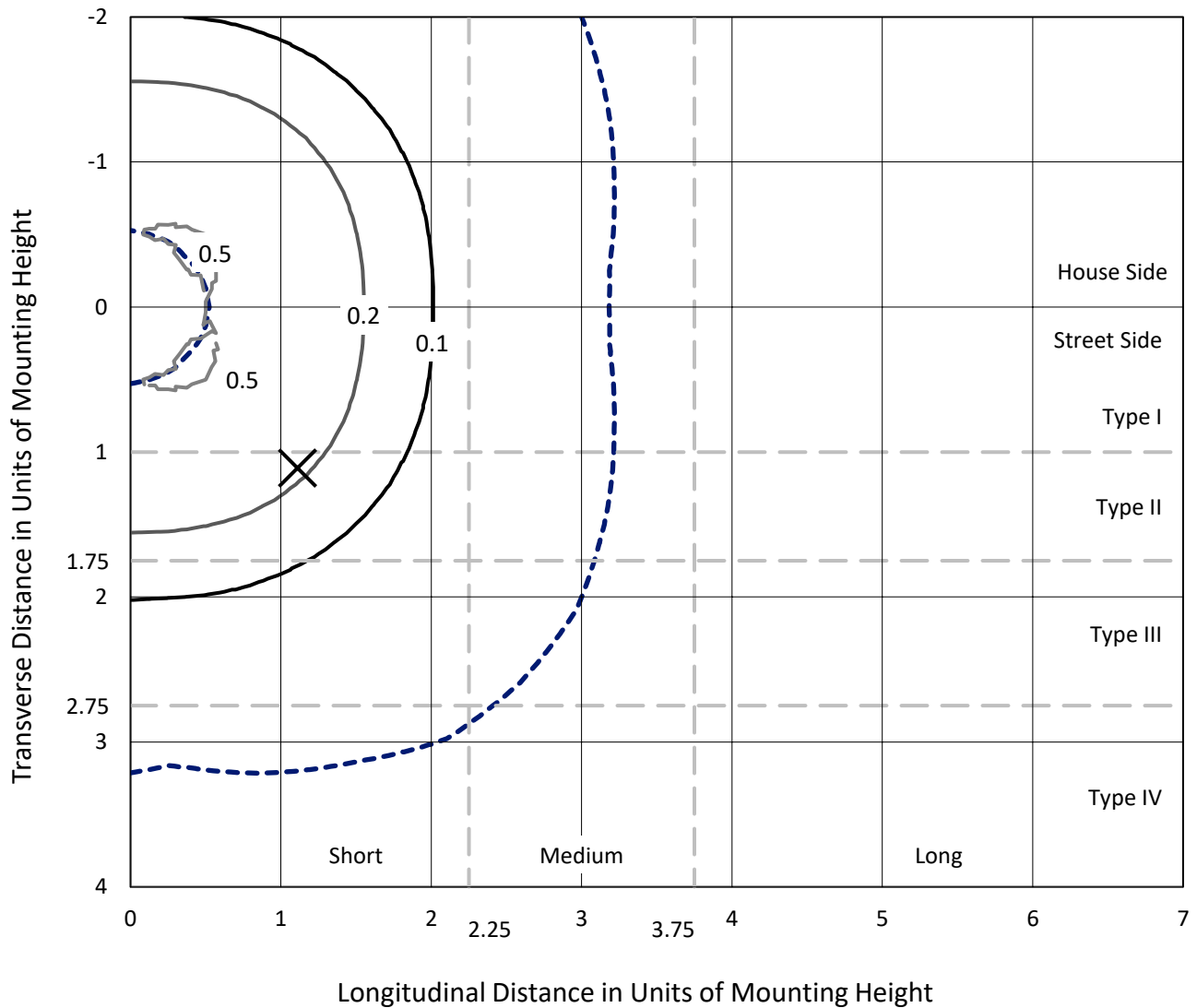
Lumens per Lamp: N/A  
Luminaire Lumens: 3777.7 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U4 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): 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

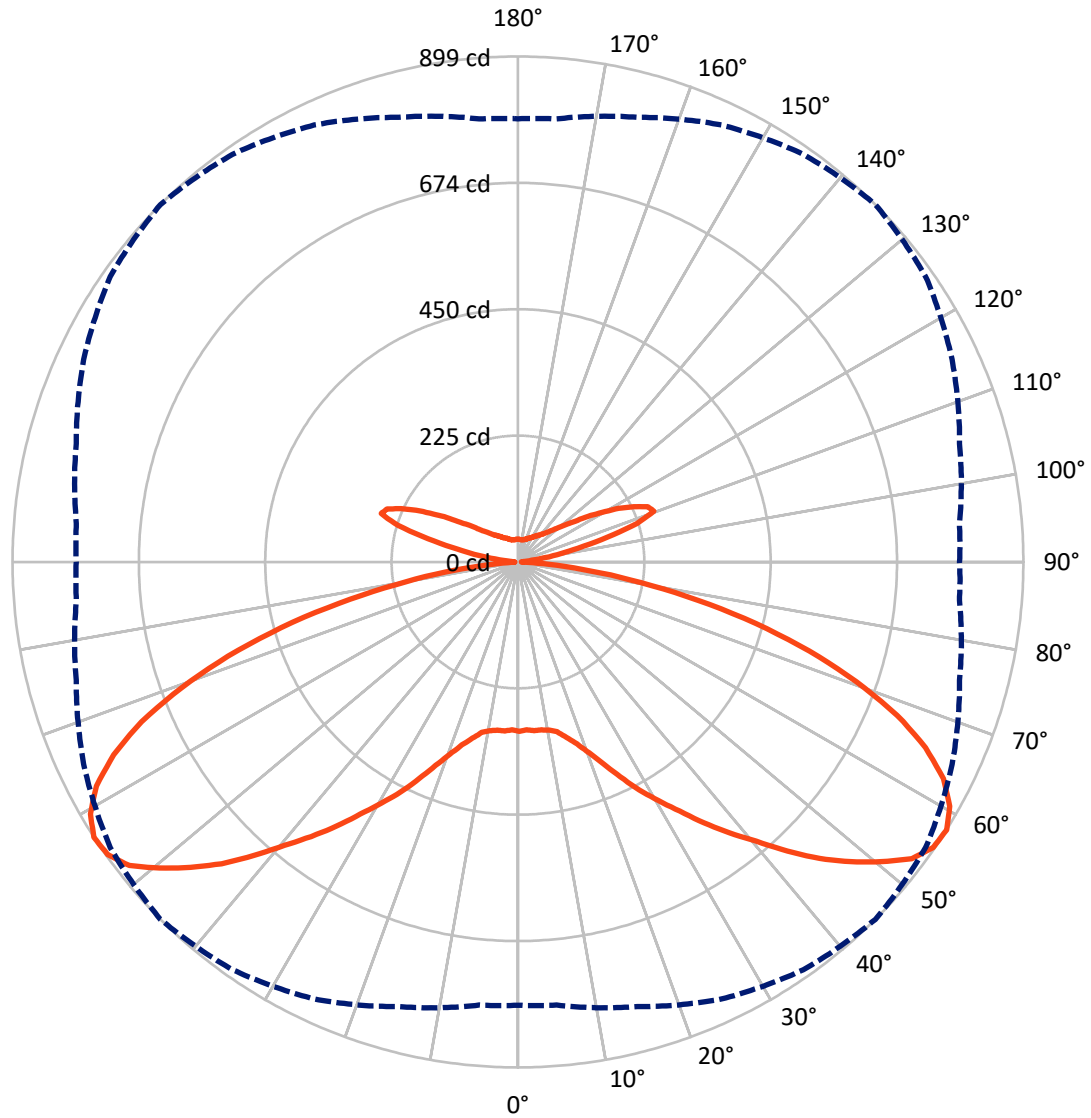
✕ Max cd  
 - - - 1/2 Max cd



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



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

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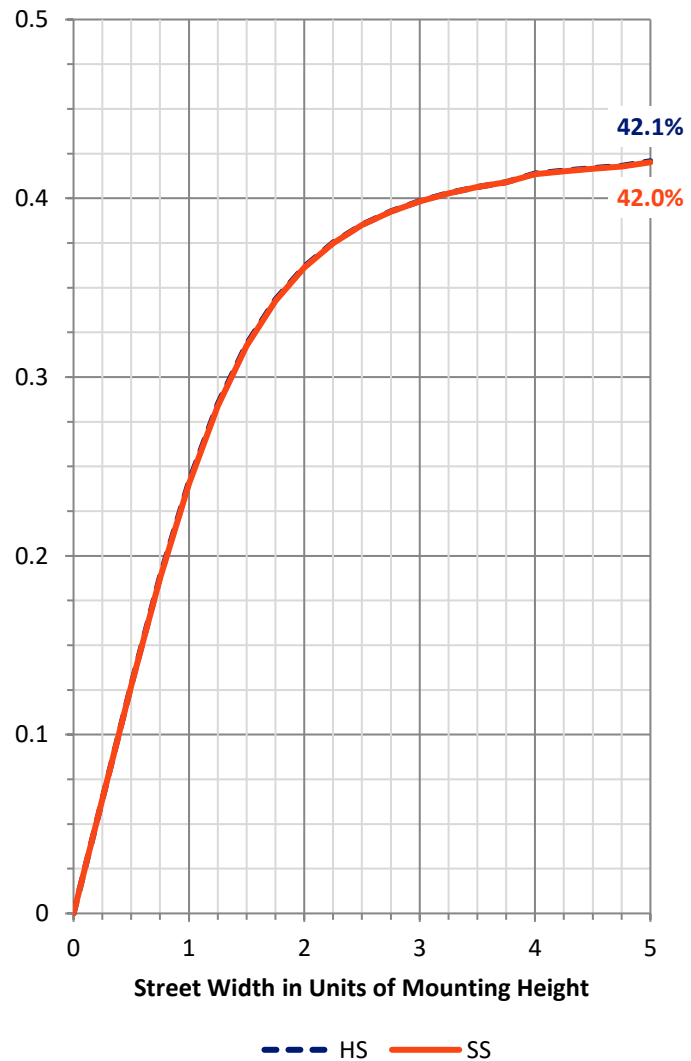
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1596.4	292.5	1888.9
	% Fixture	42.3	7.7	50.0
<b>Street Side</b>	Lumens	1596.4	292.5	1888.9
	% Fixture	42.3	7.7	50.0
<b>Total</b>	Lumens	3192.8	584.9	3777.7
	% Fixture	84.5	15.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	0.8
10°-20°	93.0	2.5
20°-30°	195.6	5.2
30°-40°	352.6	9.3
40°-50°	560.6	14.8
50°-60°	747.9	19.8
60°-70°	722.6	19.1
70°-80°	418.7	11.1
80°-90°	73.0	1.9
90°-100°	13.1	0.3
100°-110°	132.7	3.5
110°-120°	194.0	5.1
120°-130°	112.6	3.0
130°-140°	59.7	1.6
140°-150°	35.4	0.9
150°-160°	21.8	0.6
160°-170°	11.9	0.3
170°-180°	3.9	0.1
0°-90°	3192.8	84.5
0°-180°	3777.7	100.0

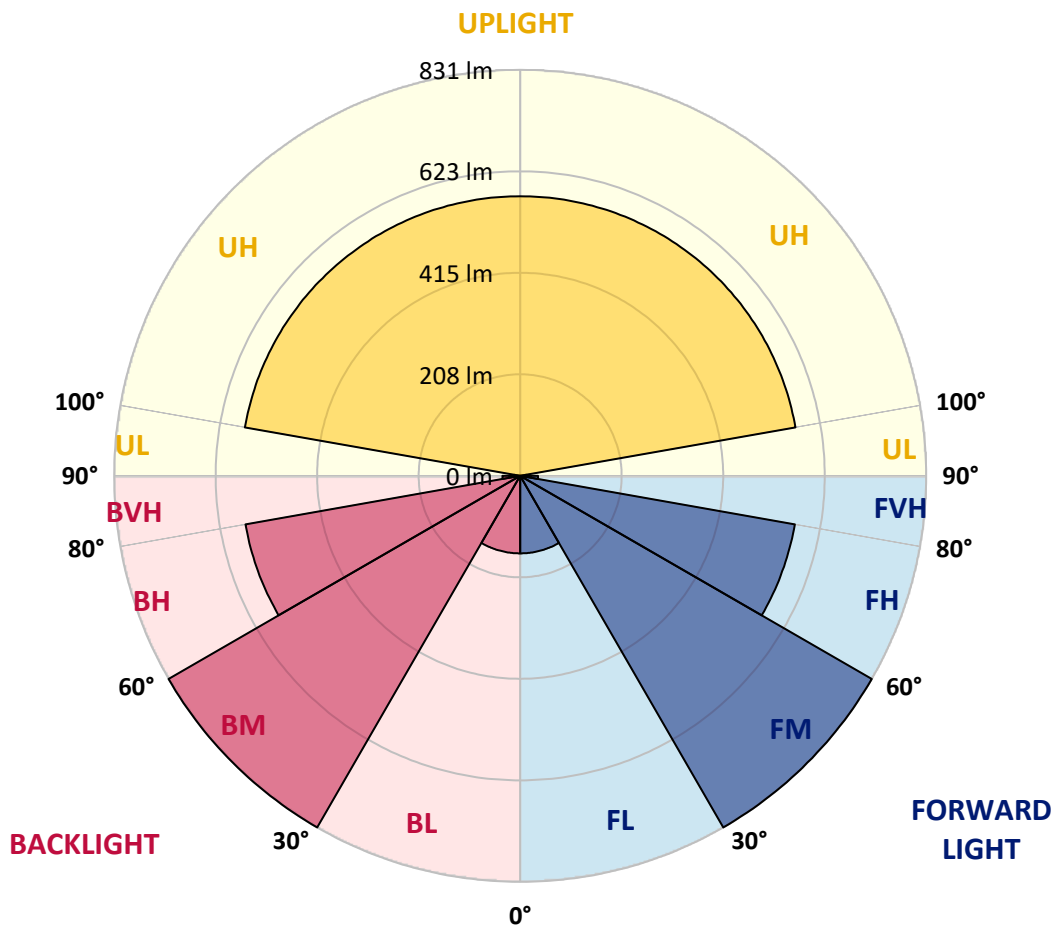


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.7	4.2			
FM (30°-60°)	830.6	22.0			
FH (60°-80°)	570.7	15.1			G0/660
FVH (80°-90°)	36.5	1.0			G1/100
BL (0°-30°)	158.7	4.2	B1/500		
BM (30°-60°)	830.6	22.0	B1/1000		
BH (60°-80°)	570.7	15.1	B2/1000		G0/660
BVH (80°-90°)	36.5	1.0			G1/100
UL (90°-100°)	13.1	0.3		U2/50	
UH (100°-180°)	571.8	15.1		U4/1000	

**BUG Rating: B2-U4-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5
2.5°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
5°	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5
7.5°	298.8	298.8	301.5	301.5	301.5	301.5	301.5	301.5	301.5	298.8	298.8
10°	301.5	301.5	301.5	304.3	304.3	304.3	304.3	304.3	301.5	301.5	301.5
12.5°	307.1	307.1	309.8	309.8	309.8	309.8	309.8	309.8	309.8	307.1	307.1
15°	320.9	320.9	320.9	323.7	323.7	323.7	323.7	323.7	320.9	320.9	320.9
17.5°	334.7	334.7	337.5	337.5	340.3	340.3	340.3	337.5	337.5	337.5	337.5
20°	354.1	354.1	356.9	356.9	359.6	362.4	362.4	359.6	356.9	356.9	356.9
22.5°	379.0	381.8	381.8	381.8	384.5	390.1	387.3	384.5	381.8	381.8	381.8
25°	409.4	412.2	415.0	415.0	417.7	423.3	423.3	415.0	415.0	415.0	415.0
27.5°	445.4	448.2	450.9	450.9	453.7	459.2	456.5	450.9	450.9	448.2	448.2
30°	478.6	481.4	484.1	486.9	489.7	492.4	492.4	486.9	484.1	481.4	478.6
32.5°	511.8	511.8	517.3	522.9	528.4	528.4	531.2	522.9	517.3	511.8	509.0
35°	545.0	547.8	550.5	558.8	567.1	569.9	567.1	558.8	550.5	545.0	545.0
37.5°	580.9	583.7	586.5	597.5	605.8	611.4	605.8	597.5	586.5	580.9	578.2
40°	619.7	622.4	625.2	639.0	647.3	652.9	644.6	636.3	625.2	619.7	616.9
42.5°	655.6	661.2	666.7	683.3	697.1	702.7	694.4	680.5	669.5	655.6	652.9
45°	699.9	705.4	713.7	730.3	744.2	752.5	741.4	727.6	711.0	699.9	697.1
47.5°	735.9	741.4	749.7	771.8	791.2	796.7	785.7	769.1	746.9	733.1	730.3
50°	763.5	769.1	785.7	810.6	832.7	838.2	827.2	805.0	780.1	760.8	758.0
52.5°	785.7	791.2	810.6	843.8	868.7	877.0	863.1	838.2	805.0	782.9	780.1
55°	796.7	799.5	824.4	860.4	885.3	896.3	882.5	854.8	818.9	794.0	791.2
57.5°	788.4	791.2	818.9	857.6	885.3	899.1	885.3	852.1	813.3	788.4	785.7
60°	771.8	771.8	796.7	841.0	874.2	882.5	868.7	835.5	794.0	769.1	766.3
62.5°	741.4	738.6	769.1	807.8	841.0	849.3	838.2	805.0	763.5	738.6	735.9
65°	683.3	677.8	722.0	758.0	788.4	796.7	788.4	758.0	719.3	680.5	675.0
67.5°	614.1	605.8	647.3	688.8	716.5	727.6	716.5	691.6	647.3	608.6	605.8
70°	542.2	533.9	567.1	603.1	633.5	639.0	628.0	603.1	561.6	536.7	536.7
72.5°	456.5	448.2	478.6	506.3	536.7	542.2	531.2	509.0	478.6	453.7	450.9
75°	362.4	354.1	381.8	403.9	434.3	437.1	431.6	406.7	381.8	356.9	356.9
77.5°	268.3	260.0	282.2	301.5	326.4	326.4	323.7	304.3	282.2	265.6	265.6
80°	177.1	171.5	190.9	199.2	221.3	221.3	218.5	204.7	188.1	177.1	174.3
82.5°	99.6	94.1	110.7	113.4	130.0	130.0	127.3	116.2	105.1	96.8	96.8
85°	38.7	33.2	44.3	47.0	55.3	55.3	52.6	49.8	41.5	36.0	36.0
87.5°	2.8	2.8	5.5	5.5	8.3	8.3	8.3	5.5	5.5	2.8	2.8
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)