

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: P833244

Luminaire Tested: **TTN-D1-750-U-WQ-CG-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833244  
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-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

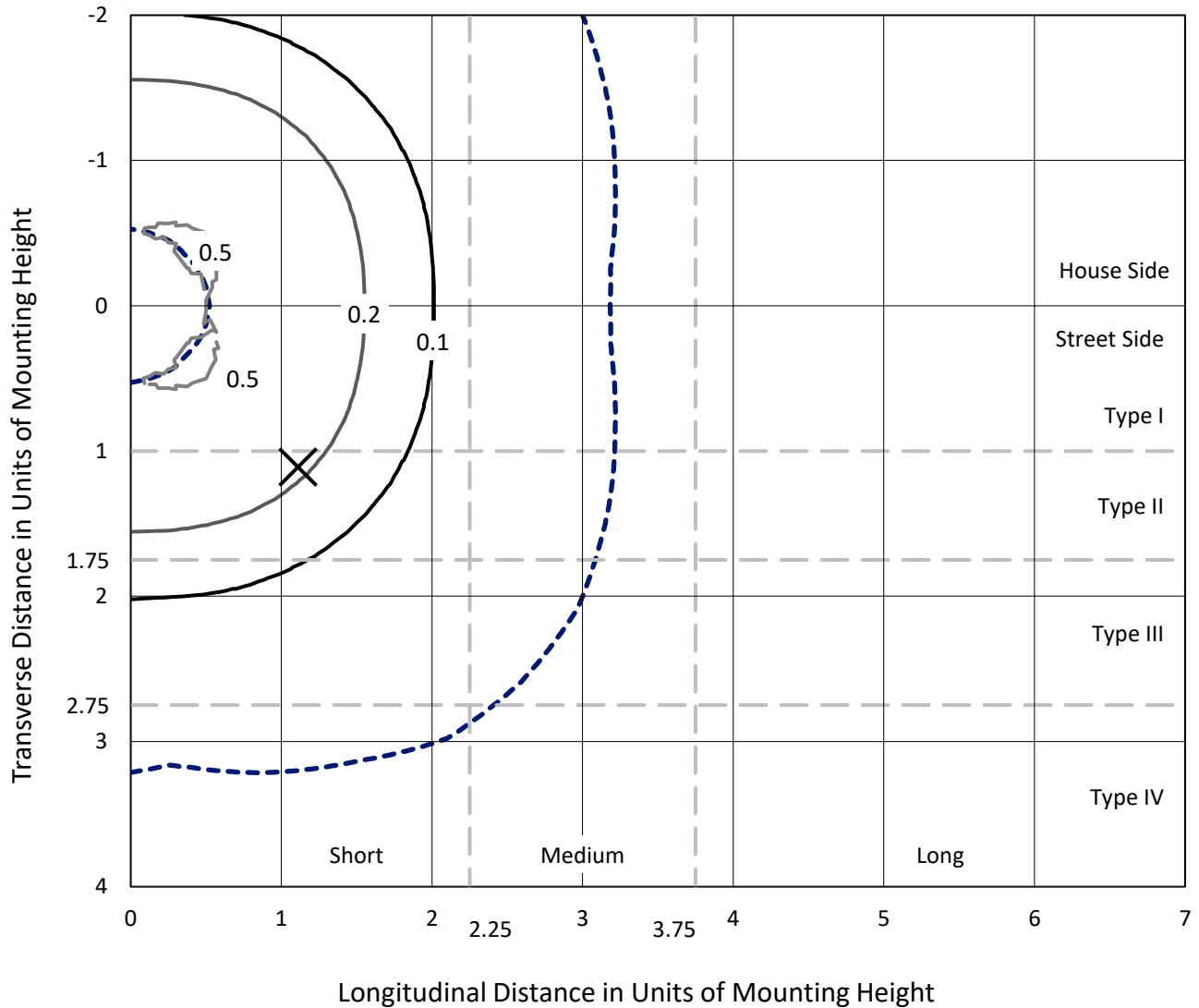
Lumens per Lamp: N/A  
Luminaire Lumens: 4004.6 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U4 - G1  
  
Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (Ain): 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

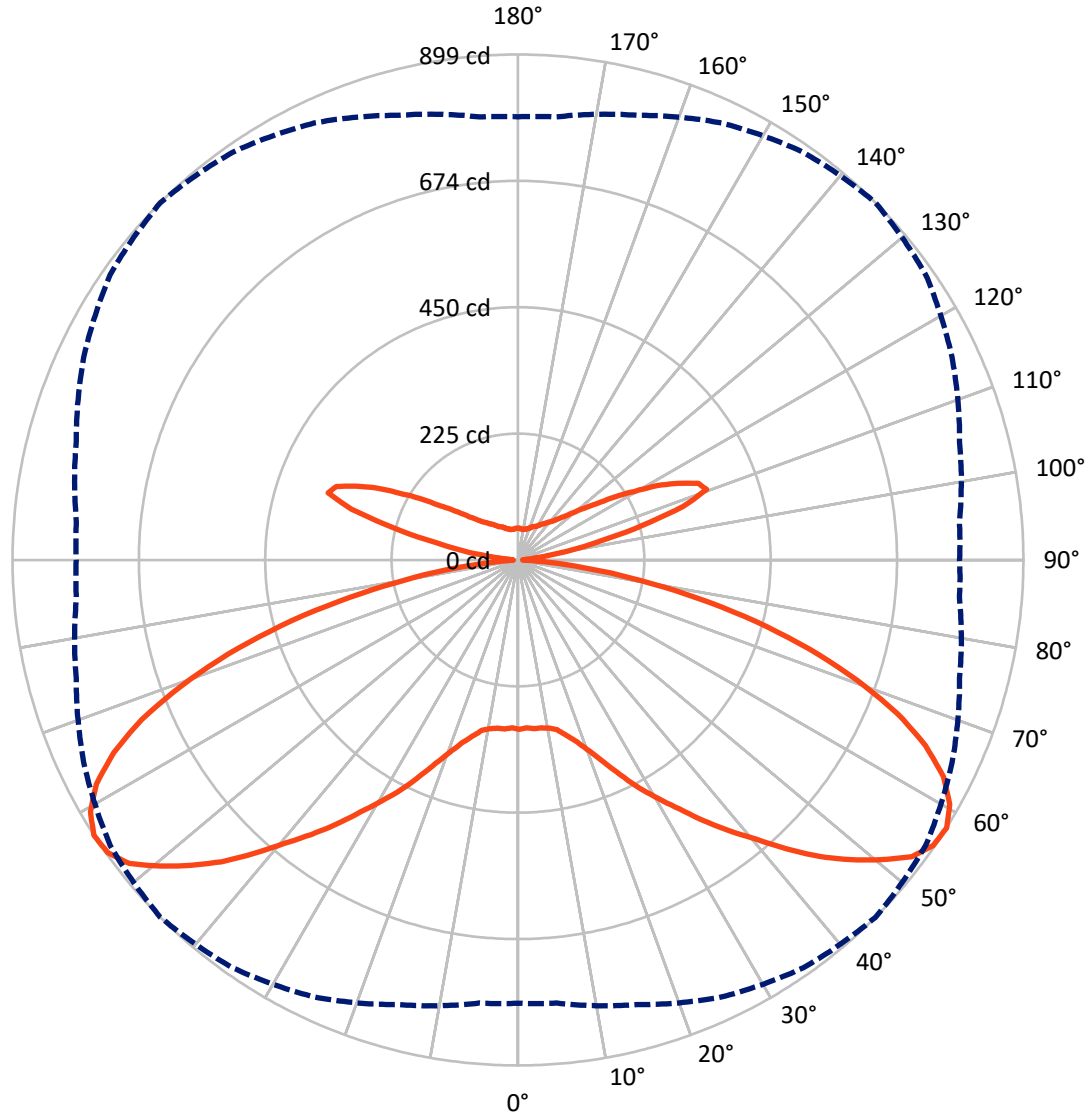
✕ Max cd  
 - - - 1/2 Max cd



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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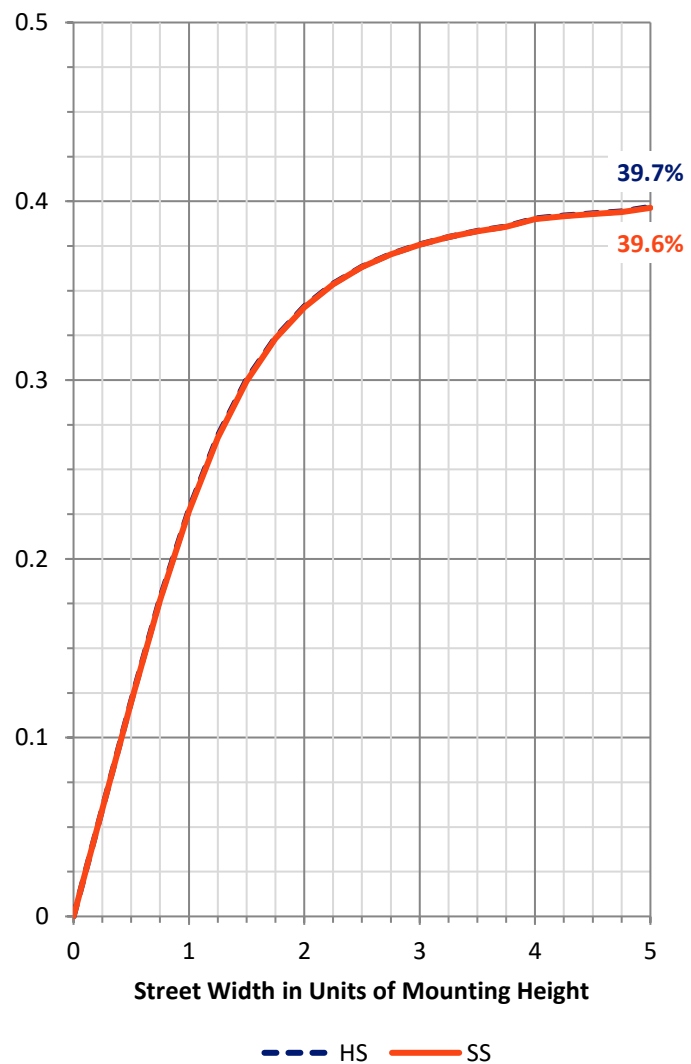
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1596.6	405.8	2002.3
	% Fixture	39.9	10.1	50.0
<b>Street Side</b>	Lumens	1596.6	405.8	2002.3
	% Fixture	39.9	10.1	50.0
<b>Total</b>	Lumens	3193.1	811.5	4004.6
	% Fixture	79.7	20.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	0.7
10°-20°	93.0	2.3
20°-30°	195.6	4.9
30°-40°	352.6	8.8
40°-50°	560.6	14.0
50°-60°	747.9	18.7
60°-70°	722.6	18.0
70°-80°	418.7	10.5
80°-90°	73.3	1.8
90°-100°	18.1	0.5
100°-110°	184.1	4.6
110°-120°	269.1	6.7
120°-130°	156.2	3.9
130°-140°	82.7	2.1
140°-150°	49.1	1.2
150°-160°	30.3	0.8
160°-170°	16.5	0.4
170°-180°	5.4	0.1
0°-90°	3193.1	79.7
0°-180°	4004.6	100.0



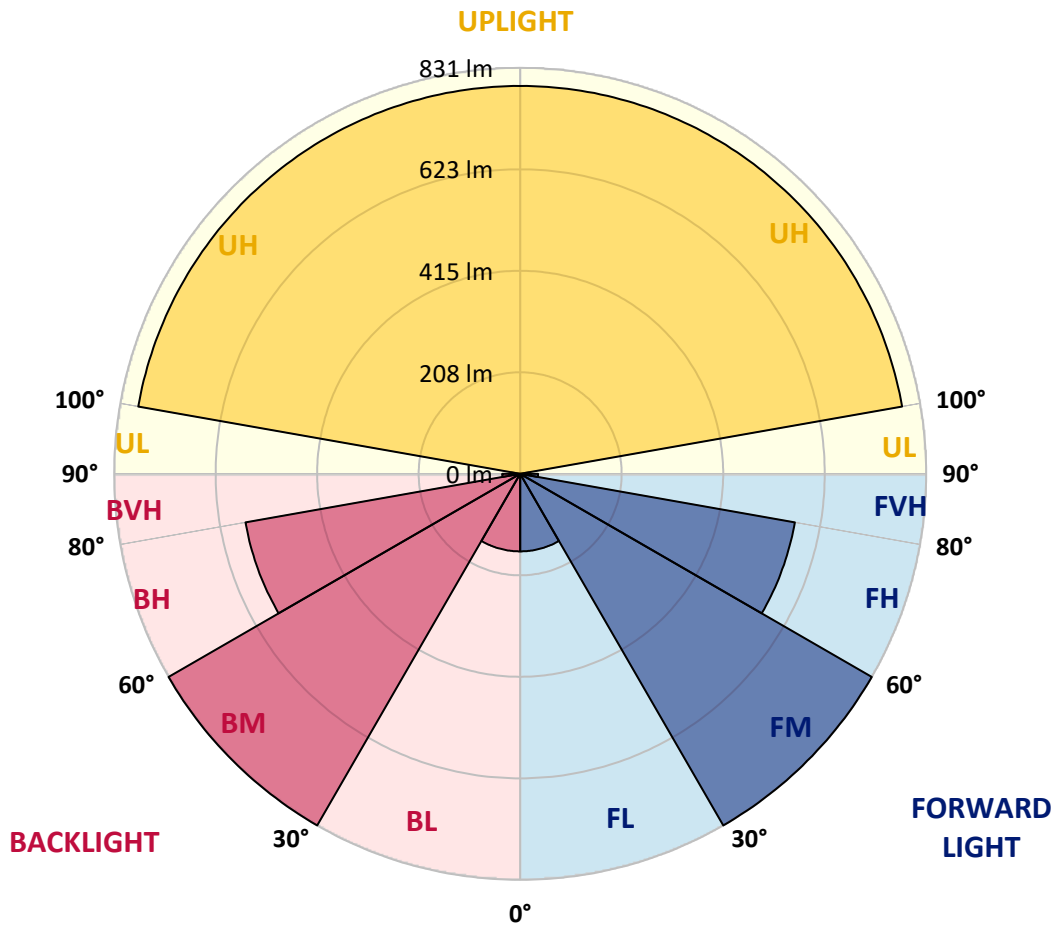
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.7	4.0			
FM (30°-60°)	830.6	20.7			
FH (60°-80°)	570.7	14.3			G0/660
FVH (80°-90°)	36.6	0.9			G1/100
BL (0°-30°)	158.7	4.0	B1/500		
BM (30°-60°)	830.6	20.7	B1/1000		
BH (60°-80°)	570.7	14.3	B2/1000		G0/660
BVH (80°-90°)	36.6	0.9			G1/100
UL (90°-100°)	18.1	0.5		U2/50	
UH (100°-180°)	793.4	19.8		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°	6.9	6.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	6.9
92.5°	6.9	6.9	6.9	9.7	11.1	9.7	11.1	8.3	8.3	6.9	6.9
95°	8.3	8.3	9.7	12.5	15.3	16.7	16.7	9.7	9.7	8.3	8.3
97.5°	11.1	12.5	12.5	15.3	25.0	45.8	27.8	13.9	13.9	12.5	11.1
100°	18.0	19.4	19.4	34.7	73.6	98.6	70.8	36.1	26.4	19.4	19.4
102.5°	58.3	61.1	75.0	112.5	166.6	151.3	127.7	120.8	83.3	66.6	63.9
105°	148.6	147.2	158.3	187.4	233.3	229.1	211.0	191.6	165.2	152.7	152.7
107.5°	195.8	195.8	205.5	230.5	265.2	309.6	313.8	248.5	218.0	204.1	202.7
110°	220.8	220.8	229.1	249.9	295.7	358.2	355.4	306.8	269.4	251.3	248.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.3	227.7	238.8	270.7	320.7	348.5	336.0	316.6	299.9	286.0	283.2
115°	234.6	234.6	247.1	277.7	305.5	316.6	302.7	287.4	276.3	270.7	273.5
117.5°	231.9	236.0	238.8	255.5	273.5	281.8	274.9	254.1	245.8	243.0	238.8
120°	215.2	215.2	218.0	226.3	236.0	240.2	237.4	223.5	216.6	215.2	212.4
122.5°	191.6	193.0	191.6	195.8	202.7	206.9	204.1	193.0	190.2	190.2	187.4
125°	168.0	168.0	166.6	169.4	173.6	172.2	173.6	168.0	166.6	166.6	165.2
127.5°	151.3	149.9	147.2	148.6	149.9	149.9	151.3	145.8	147.2	148.6	147.2
130°	134.7	134.7	131.9	131.9	131.9	129.1	131.9	129.1	130.5	131.9	133.3
132.5°	119.4	119.4	115.2	113.9	113.9	113.9	115.2	113.9	116.6	119.4	119.4
135°	106.9	106.9	102.7	104.1	104.1	102.7	104.1	102.7	105.5	106.9	106.9
137.5°	97.2	97.2	94.4	94.4	94.4	93.0	94.4	94.4	95.8	98.6	100.0
140°	88.9	88.9	87.5	87.5	86.1	87.5	87.5	87.5	88.9	90.2	90.2
142.5°	84.7	83.3	81.9	80.5	81.9	81.9	81.9	80.5	81.9	84.7	84.7
145°	77.8	77.8	76.4	76.4	76.4	77.8	76.4	76.4	77.8	77.8	79.1
147.5°	73.6	73.6	72.2	73.6	73.6	73.6	73.6	72.2	73.6	73.6	75.0
150°	72.2	70.8	69.4	70.8	70.8	69.4	69.4	69.4	69.4	70.8	70.8
152.5°	68.0	68.0	66.6	68.0	66.6	66.6	66.6	66.6	66.6	68.0	69.4
155°	65.3	65.3	63.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
157.5°	62.5	63.9	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.9	63.9
160°	61.1	61.1	61.1	61.1	59.7	59.7	59.7	61.1	61.1	61.1	62.5
162.5°	59.7	59.7	59.7	59.7	58.3	58.3	58.3	58.3	59.7	59.7	61.1
165°	59.7	58.3	58.3	58.3	56.9	56.9	56.9	56.9	58.3	59.7	58.3
167.5°	56.9	56.9	56.9	56.9	56.9	55.5	55.5	56.9	56.9	56.9	58.3
170°	56.9	56.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.9
172.5°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	55.5	55.5	56.9	56.9
175°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	56.9	56.9	56.9	55.5
177.5°	56.9	56.9	56.9	56.9	55.5	56.9	56.9	56.9	56.9	56.9	56.9
180°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9

(END OF REPORT)