

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: P832972

Luminaire Tested: **TTN-D0-830-U-WQ-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832972
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-D0-830-U-WQ-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1329.9 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

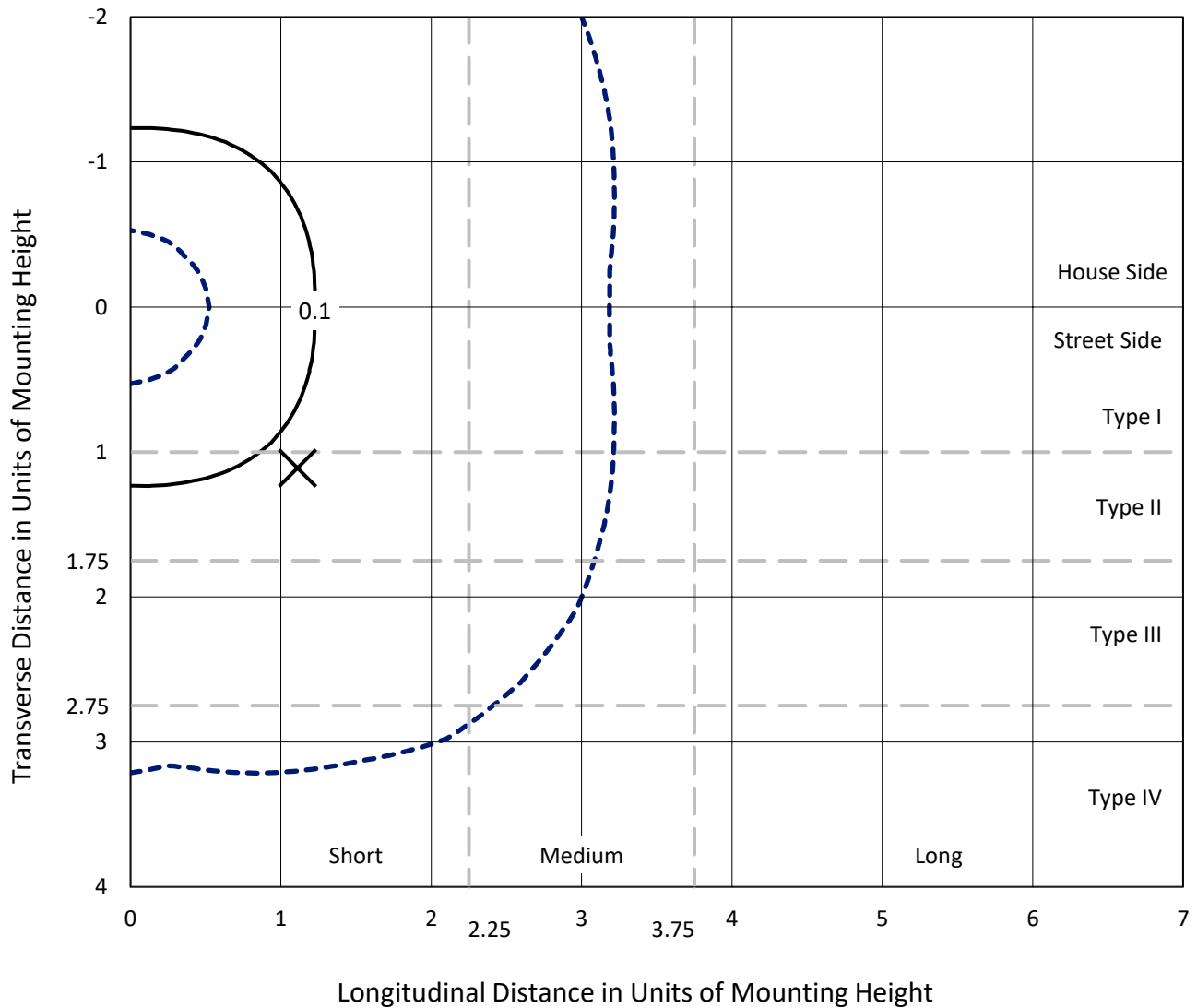
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

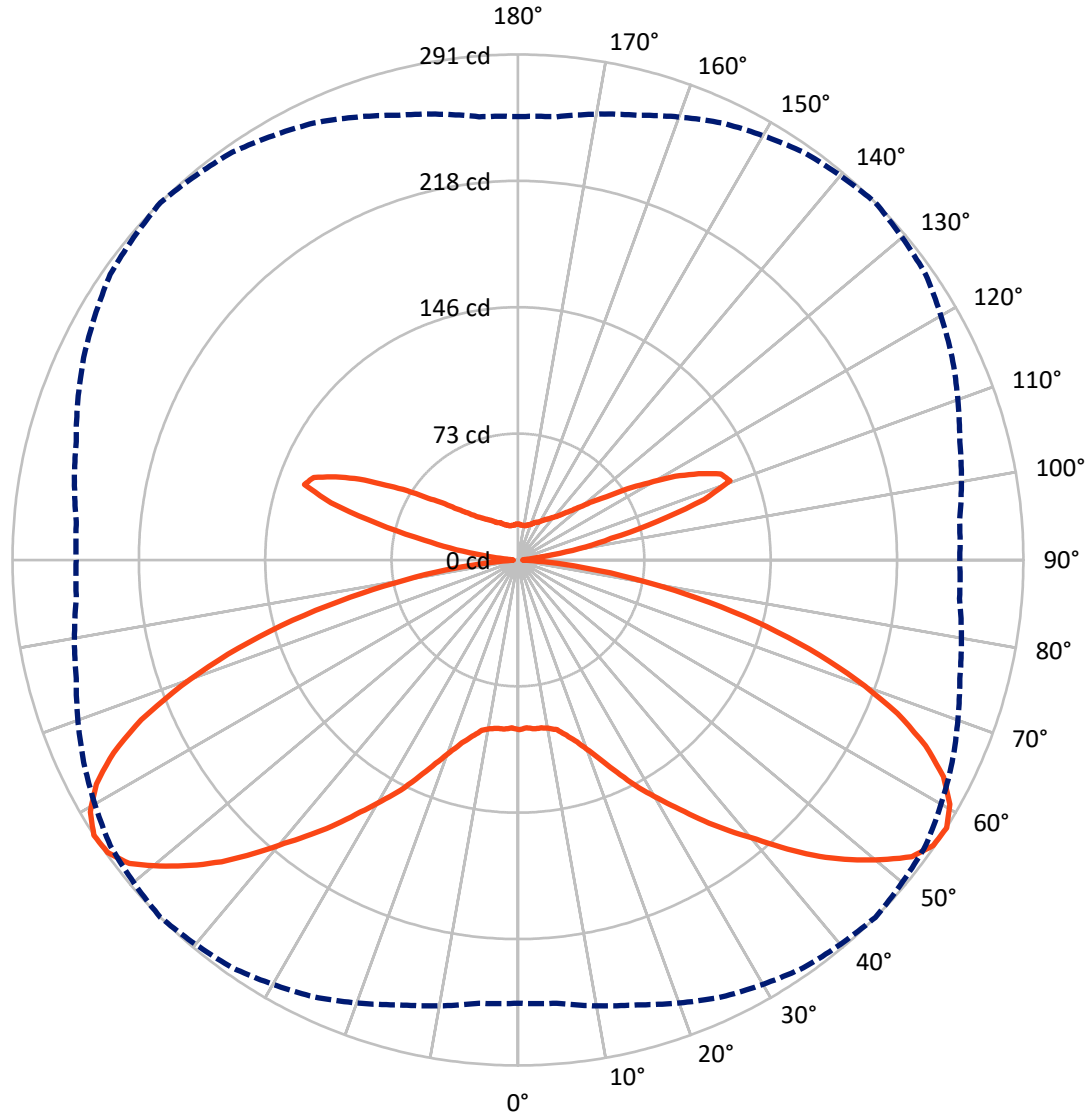
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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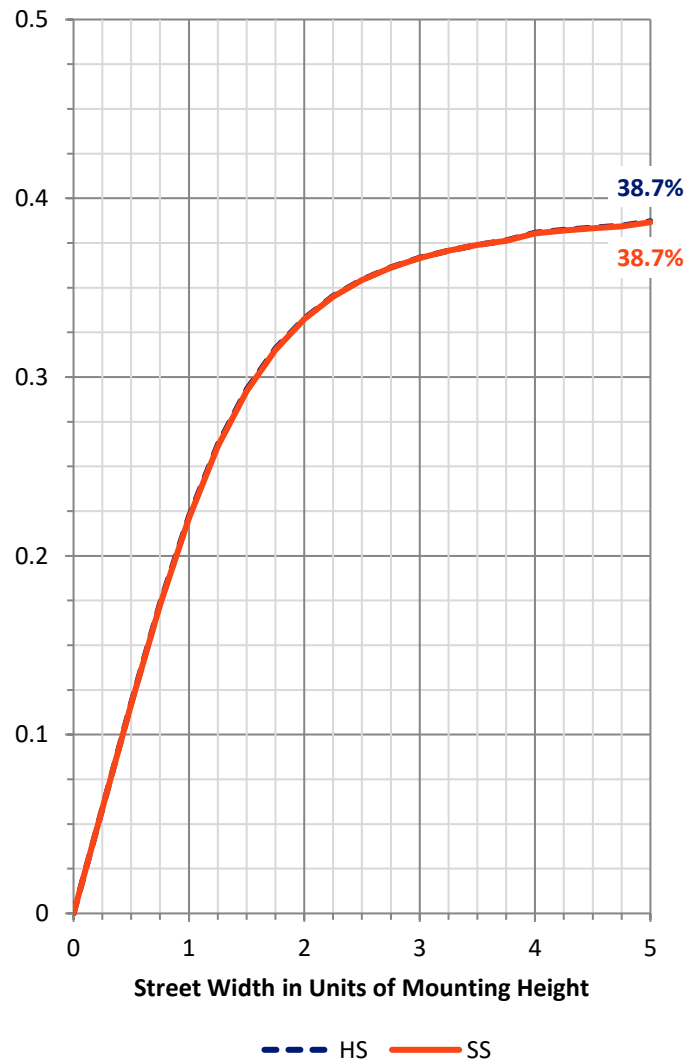
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	517.2	147.7	664.9
	% Fixture	38.9	11.1	50.0
Street Side	Lumens	517.2	147.7	664.9
	% Fixture	38.9	11.1	50.0
Total	Lumens	1034.4	295.5	1329.9
	% Fixture	77.8	22.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.7
10°-20°	30.1	2.3
20°-30°	63.4	4.8
30°-40°	114.2	8.6
40°-50°	181.6	13.7
50°-60°	242.3	18.2
60°-70°	234.1	17.6
70°-80°	135.6	10.2
80°-90°	23.8	1.8
90°-100°	6.6	0.5
100°-110°	67.0	5.0
110°-120°	98.0	7.4
120°-130°	56.9	4.3
130°-140°	30.1	2.3
140°-150°	17.9	1.3
150°-160°	11.0	0.8
160°-170°	6.0	0.5
170°-180°	2.0	0.1
0°-90°	1034.4	77.8
0°-180°	1329.9	100.0



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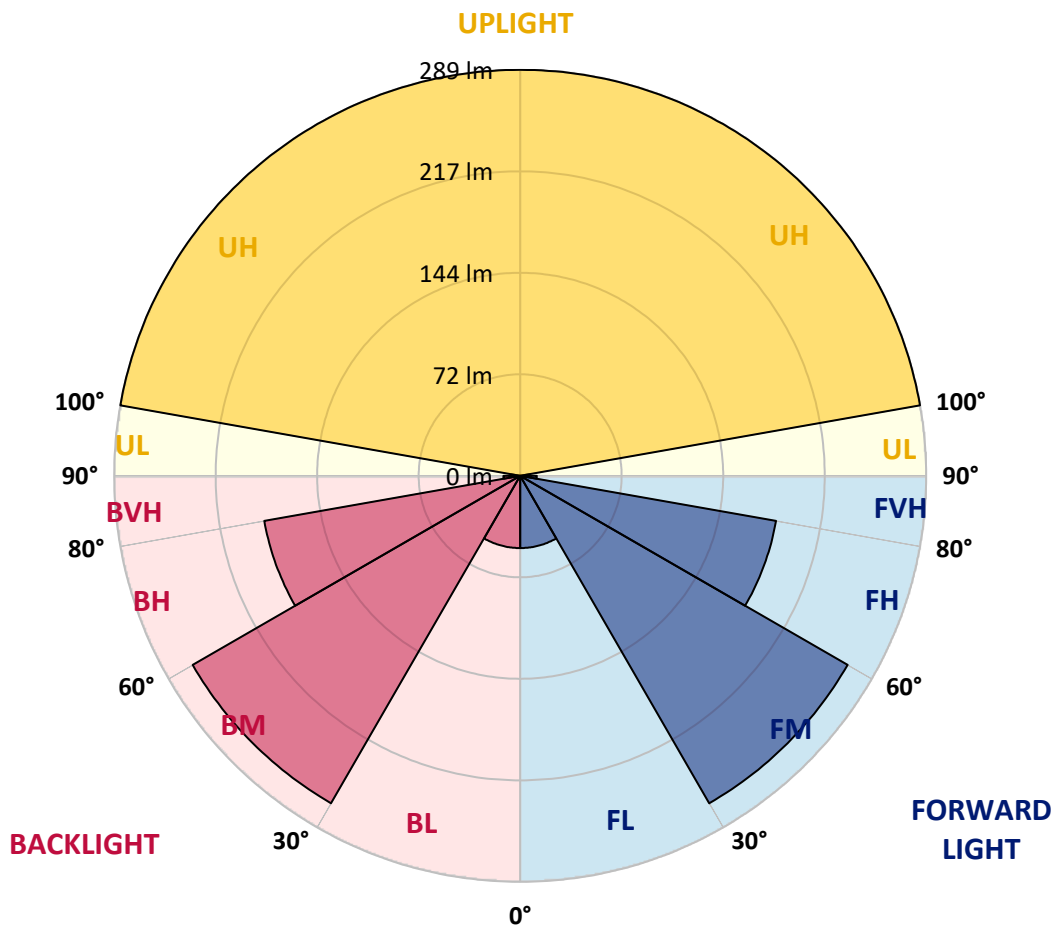
CATALOG NUMBER: TTN-D0-830-U-WQ-CG-UPL1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	51.4	3.9			
FM (30°-60°)	269.1	20.2			
FH (60°-80°)	184.9	13.9			G0/660
FVH (80°-90°)	11.9	0.9			G1/100
BL (0°-30°)	51.4	3.9	B0/110		
BM (30°-60°)	269.1	20.2	B1/1000		
BH (60°-80°)	184.9	13.9	B1/500		G0/660
BVH (80°-90°)	11.9	0.9			G1/100
UL (90°-100°)	6.6	0.5		U1/10	
UH (100°-180°)	288.9	21.7		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°	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
2.5°	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
5°	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
7.5°	96.8	96.8	97.7	97.7	97.7	97.7	97.7	97.7	97.7	96.8	96.8
10°	97.7	97.7	97.7	98.6	98.6	98.6	98.6	98.6	97.7	97.7	97.7
12.5°	99.5	99.5	100.4	100.4	100.4	100.4	100.4	100.4	100.4	99.5	99.5
15°	104.0	104.0	104.0	104.8	104.8	104.8	104.8	104.8	104.0	104.0	104.0
17.5°	108.4	108.4	109.3	109.3	110.2	110.2	110.2	109.3	109.3	109.3	109.3
20°	114.7	114.7	115.6	115.6	116.5	117.4	117.4	116.5	115.6	115.6	115.6
22.5°	122.8	123.7	123.7	123.7	124.6	126.4	125.5	124.6	123.7	123.7	123.7
25°	132.6	133.5	134.4	134.4	135.3	137.1	137.1	134.4	134.4	134.4	134.4
27.5°	144.3	145.2	146.1	146.1	147.0	148.8	147.9	146.1	146.1	145.2	145.2
30°	155.0	155.9	156.8	157.7	158.6	159.5	159.5	157.7	156.8	155.9	155.0
32.5°	165.8	165.8	167.6	169.4	171.2	171.2	172.1	169.4	167.6	165.8	164.9
35°	176.5	177.4	178.3	181.0	183.7	184.6	183.7	181.0	178.3	176.5	176.5
37.5°	188.2	189.1	190.0	193.6	196.3	198.0	196.3	193.6	190.0	188.2	187.3
40°	200.7	201.6	202.5	207.0	209.7	211.5	208.8	206.1	202.5	200.7	199.8
42.5°	212.4	214.2	216.0	221.3	225.8	227.6	224.9	220.5	216.9	212.4	211.5
45°	226.7	228.5	231.2	236.6	241.1	243.7	240.2	235.7	230.3	226.7	225.8
47.5°	238.4	240.2	242.9	250.0	256.3	258.1	254.5	249.1	242.0	237.5	236.6
50°	247.3	249.1	254.5	262.6	269.7	271.5	267.9	260.8	252.7	246.4	245.5
52.5°	254.5	256.3	262.6	273.3	281.4	284.1	279.6	271.5	260.8	253.6	252.7
55°	258.1	259.0	267.0	278.7	286.8	290.3	285.9	276.9	265.3	257.2	256.3
57.5°	255.4	256.3	265.3	277.8	286.8	291.2	286.8	276.0	263.5	255.4	254.5
60°	250.0	250.0	258.1	272.4	283.2	285.9	281.4	270.6	257.2	249.1	248.2
62.5°	240.2	239.3	249.1	261.7	272.4	275.1	271.5	260.8	247.3	239.3	238.4
65°	221.3	219.6	233.9	245.5	255.4	258.1	255.4	245.5	233.0	220.5	218.7
67.5°	198.9	196.3	209.7	223.1	232.1	235.7	232.1	224.0	209.7	197.2	196.3
70°	175.6	173.0	183.7	195.4	205.2	207.0	203.4	195.4	181.9	173.9	173.9
72.5°	147.9	145.2	155.0	164.0	173.9	175.6	172.1	164.9	155.0	147.0	146.1
75°	117.4	114.7	123.7	130.8	140.7	141.6	139.8	131.7	123.7	115.6	115.6
77.5°	86.9	84.2	91.4	97.7	105.7	105.7	104.8	98.6	91.4	86.0	86.0
80°	57.4	55.6	61.8	64.5	71.7	71.7	70.8	66.3	60.9	57.4	56.5
82.5°	32.3	30.5	35.8	36.7	42.1	42.1	41.2	37.6	34.1	31.4	31.4
85°	12.5	10.8	14.3	15.2	17.9	17.9	17.0	16.1	13.4	11.6	11.6
87.5°	0.9	0.9	1.8	1.8	2.7	2.7	2.7	1.8	1.8	0.9	0.9
90°	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5
92.5°	2.5	2.5	2.5	3.5	4.0	3.5	4.0	3.0	3.0	2.5	2.5
95°	3.0	3.0	3.5	4.5	5.6	6.1	6.1	3.5	3.5	3.0	3.0
97.5°	4.0	4.5	4.5	5.6	9.1	16.7	10.1	5.1	5.1	4.5	4.0
100°	6.6	7.1	7.1	12.6	26.8	35.9	25.8	13.1	9.6	7.1	7.1
102.5°	21.2	22.2	27.3	40.9	60.7	55.1	46.5	44.0	30.3	24.3	23.3
105°	54.1	53.6	57.6	68.2	84.9	83.4	76.8	69.8	60.2	55.6	55.6
107.5°	71.3	71.3	74.8	83.9	96.6	112.7	114.2	90.5	79.4	74.3	73.8
110°	80.4	80.4	83.4	91.0	107.7	130.4	129.4	111.7	98.1	91.5	90.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.4	82.9	86.9	98.6	116.8	126.9	122.3	115.3	109.2	104.1	103.1
115°	85.4	85.4	90.0	101.1	111.2	115.3	110.2	104.6	100.6	98.6	99.6
117.5°	84.4	85.9	86.9	93.0	99.6	102.6	100.1	92.5	89.5	88.5	86.9
120°	78.4	78.4	79.4	82.4	85.9	87.5	86.4	81.4	78.9	78.4	77.3
122.5°	69.8	70.3	69.8	71.3	73.8	75.3	74.3	70.3	69.3	69.3	68.2
125°	61.2	61.2	60.7	61.7	63.2	62.7	63.2	61.2	60.7	60.7	60.2
127.5°	55.1	54.6	53.6	54.1	54.6	54.6	55.1	53.1	53.6	54.1	53.6
130°	49.0	49.0	48.0	48.0	48.0	47.0	48.0	47.0	47.5	48.0	48.5
132.5°	43.5	43.5	42.0	41.5	41.5	41.5	42.0	41.5	42.5	43.5	43.5
135°	38.9	38.9	37.4	37.9	37.9	37.4	37.9	37.4	38.4	38.9	38.9
137.5°	35.4	35.4	34.4	34.4	34.4	33.9	34.4	34.4	34.9	35.9	36.4
140°	32.4	32.4	31.8	31.8	31.3	31.8	31.8	31.8	32.4	32.9	32.9
142.5°	30.8	30.3	29.8	29.3	29.8	29.8	29.8	29.3	29.8	30.8	30.8
145°	28.3	28.3	27.8	27.8	27.8	28.3	27.8	27.8	28.3	28.3	28.8
147.5°	26.8	26.8	26.3	26.8	26.8	26.8	26.8	26.3	26.8	26.8	27.3
150°	26.3	25.8	25.3	25.8	25.8	25.3	25.3	25.3	25.3	25.8	25.8
152.5°	24.8	24.8	24.3	24.8	24.3	24.3	24.3	24.3	24.3	24.8	25.3
155°	23.8	23.8	23.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
157.5°	22.7	23.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
160°	22.2	22.2	22.2	22.2	21.7	21.7	21.7	22.2	22.2	22.2	22.7
162.5°	21.7	21.7	21.7	21.7	21.2	21.2	21.2	21.2	21.7	21.7	22.2
165°	21.7	21.2	21.2	21.2	20.7	20.7	20.7	20.7	21.2	21.7	21.2
167.5°	20.7	20.7	20.7	20.7	20.7	20.2	20.2	20.7	20.7	20.7	21.2
170°	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.7
172.5°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.7	20.7
175°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.7	20.7	20.7	20.2
177.5°	20.7	20.7	20.7	20.7	20.2	20.7	20.7	20.7	20.7	20.7	20.7
180°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)