

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: P832978

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832978
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-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1384.8 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

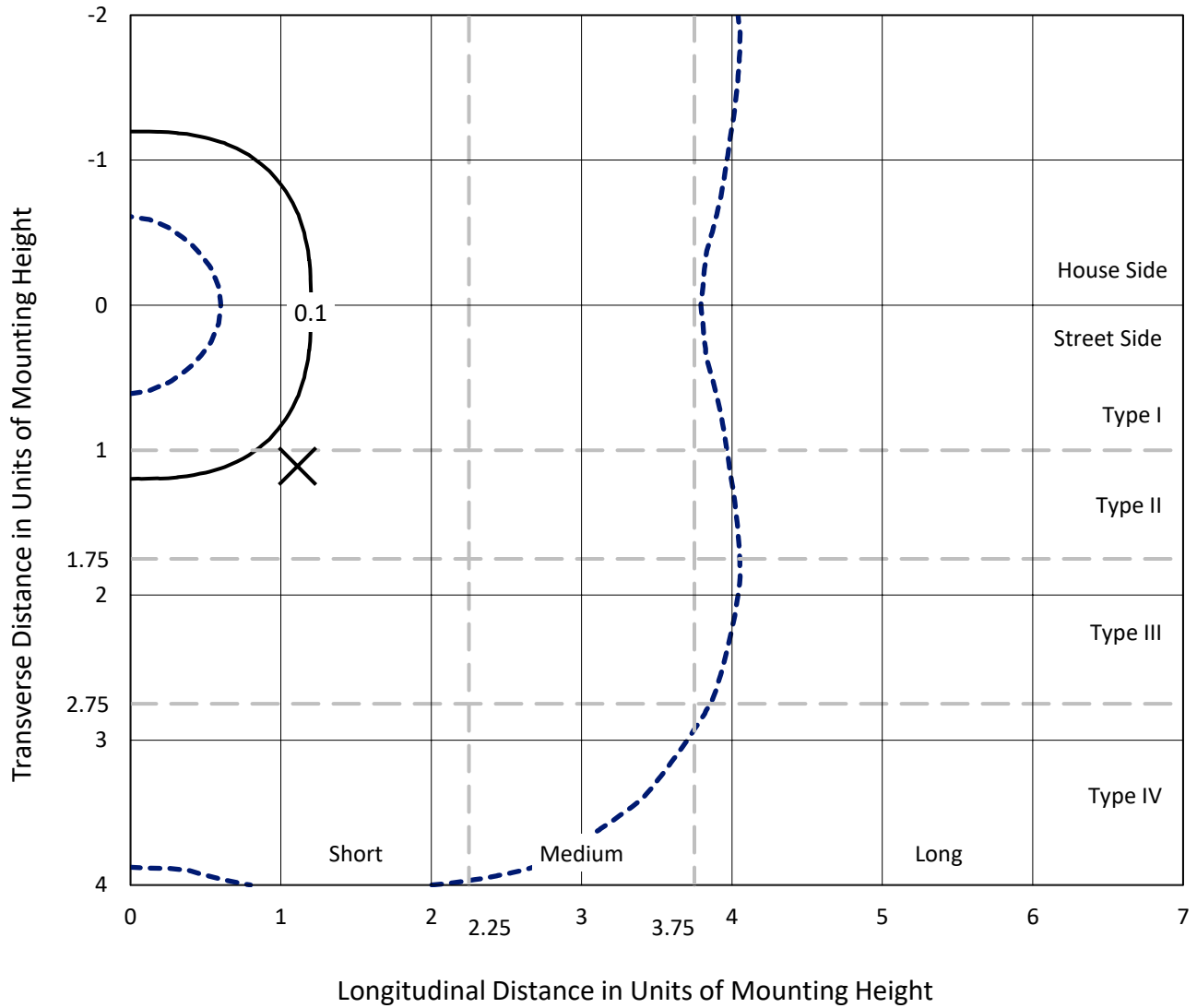
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

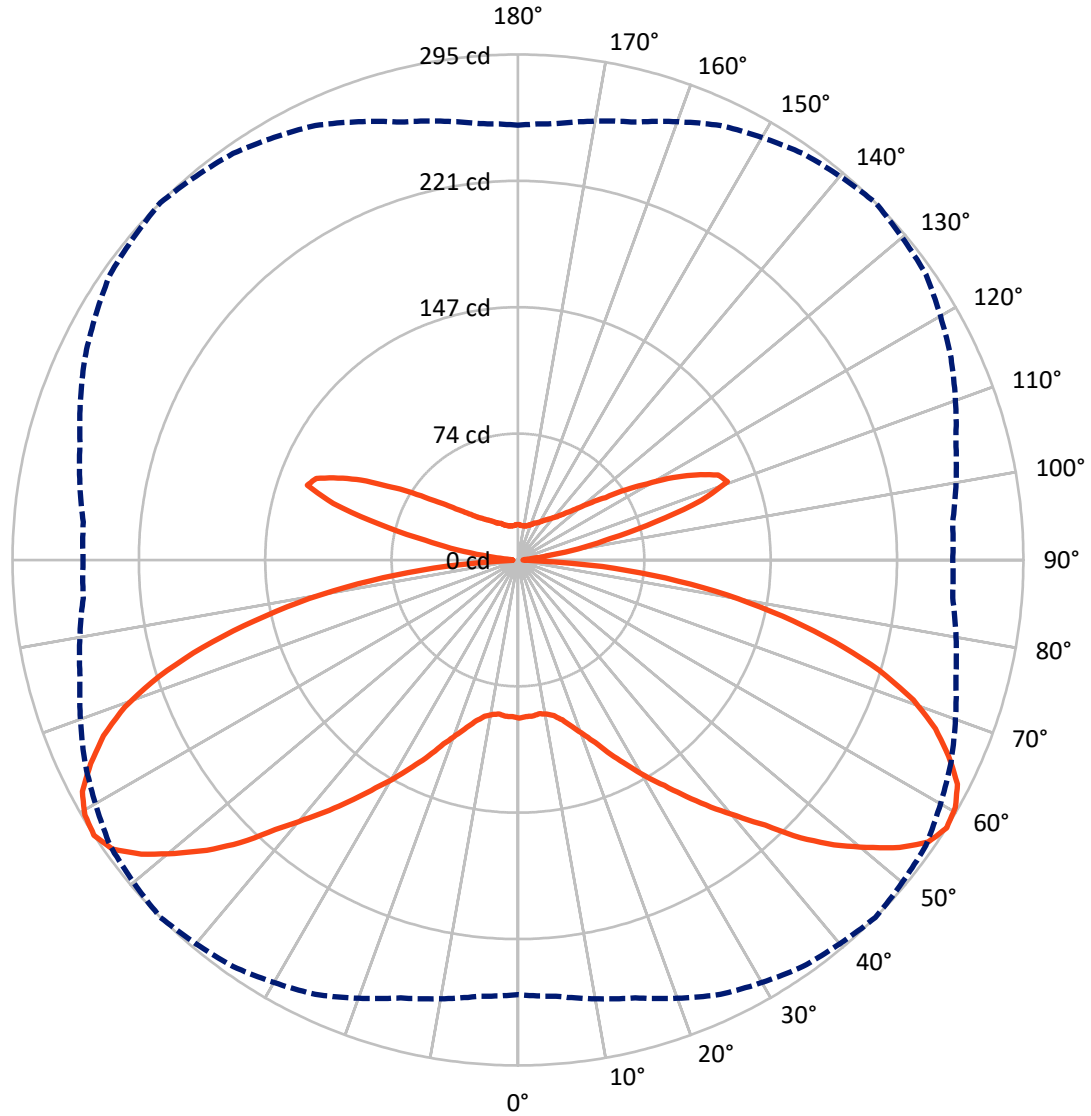
✕ Max cd
 - - - 1/2 Max cd



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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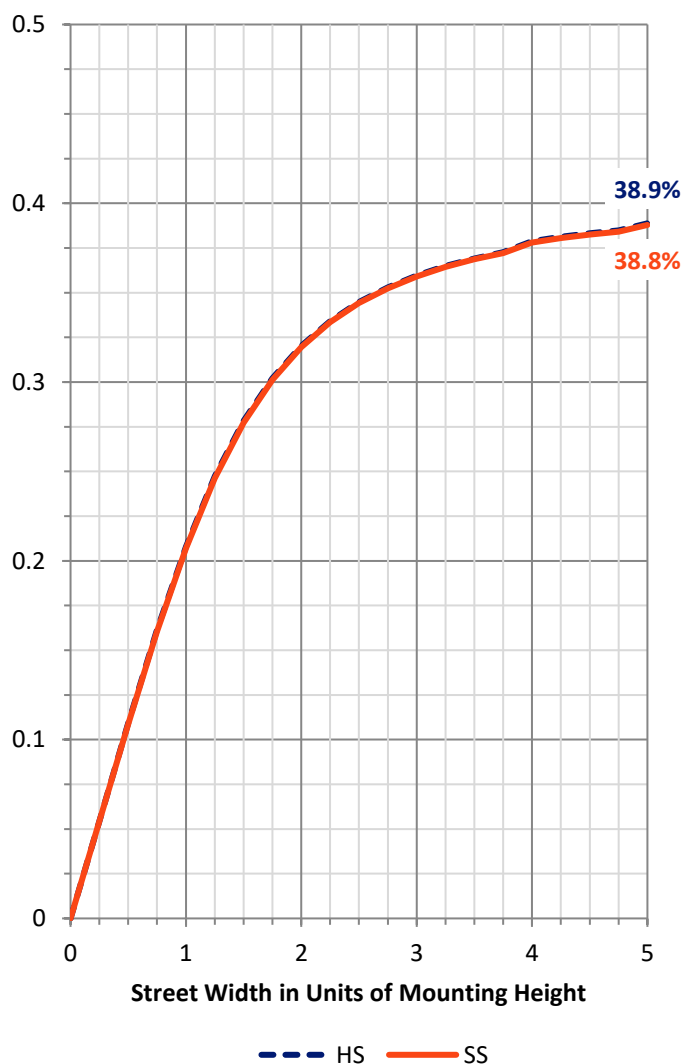
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.7	147.7	692.4
	% Fixture	39.3	10.7	50.0
Street Side	Lumens	544.7	147.7	692.4
	% Fixture	39.3	10.7	50.0
Total	Lumens	1089.4	295.5	1384.8
	% Fixture	78.7	21.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.6
10°-20°	27.7	2.0
20°-30°	58.1	4.2
30°-40°	105.4	7.6
40°-50°	171.8	12.4
50°-60°	240.5	17.4
60°-70°	251.0	18.1
70°-80°	179.4	13.0
80°-90°	46.8	3.4
90°-100°	6.6	0.5
100°-110°	67.0	4.8
110°-120°	98.0	7.1
120°-130°	56.9	4.1
130°-140°	30.1	2.2
140°-150°	17.9	1.3
150°-160°	11.0	0.8
160°-170°	6.0	0.4
170°-180°	2.0	0.1
0°-90°	1089.4	78.7
0°-180°	1384.8	100.0

Coefficient of Utilization



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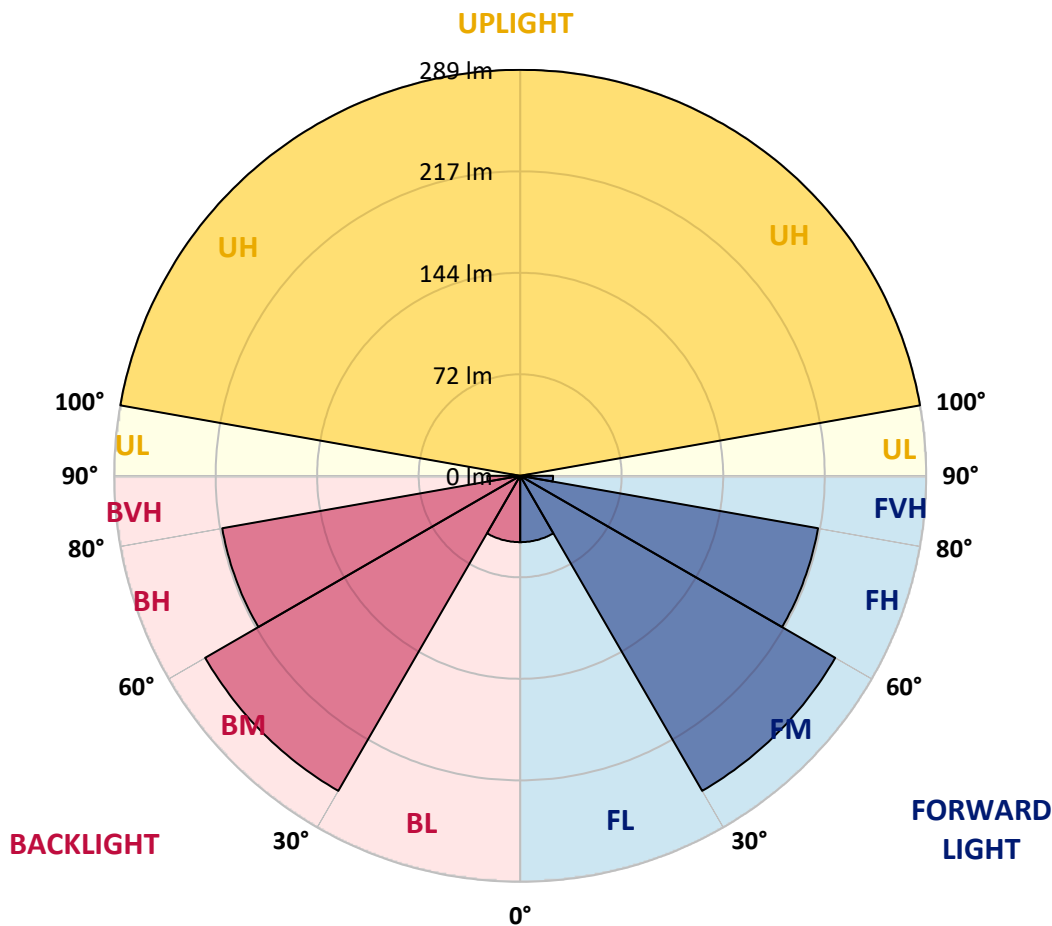
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.2	3.4			
FM (30°-60°)	258.8	18.7			
FH (60°-80°)	215.2	15.5			G0/660
FVH (80°-90°)	23.4	1.7			G1/100
BL (0°-30°)	47.2	3.4	B0/110		
BM (30°-60°)	258.8	18.7	B1/1000		
BH (60°-80°)	215.2	15.5	B1/500		G0/660
BVH (80°-90°)	23.4	1.7			G1/100
UL (90°-100°)	6.6	0.5		U1/10	
UH (100°-180°)	288.9	20.9		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°	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2.5°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
5°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
7.5°	89.6	89.6	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
10°	89.6	89.6	90.5	90.5	91.4	91.4	91.4	90.5	90.5	89.6	89.6
12.5°	91.4	91.4	91.4	92.3	93.2	93.2	93.2	92.3	92.3	91.4	91.4
15°	94.1	95.0	95.0	95.9	96.8	96.8	96.8	95.9	95.9	95.0	95.0
17.5°	99.5	99.5	99.5	100.4	101.3	102.2	102.2	100.4	100.4	99.5	100.4
20°	104.9	105.8	105.8	106.6	107.5	108.4	107.5	106.6	105.8	105.8	105.8
22.5°	112.9	112.9	113.8	113.8	115.6	115.6	115.6	113.8	113.8	113.8	113.8
25°	121.9	121.9	122.8	123.7	125.5	125.5	124.6	122.8	122.8	122.8	123.7
27.5°	132.6	132.6	133.5	133.5	135.3	135.3	134.4	133.5	133.5	133.5	134.4
30°	142.5	142.5	144.3	145.2	146.1	146.1	146.1	144.3	144.3	143.4	143.4
32.5°	151.5	152.4	153.2	155.9	157.7	157.7	157.7	155.9	154.1	153.2	153.2
35°	161.3	162.2	164.0	166.7	169.4	169.4	169.4	166.7	164.9	163.1	164.0
37.5°	173.0	173.0	175.7	178.3	181.9	182.8	181.9	179.2	176.5	174.8	174.8
40°	185.5	185.5	188.2	190.9	195.4	196.3	195.4	191.8	188.2	187.3	187.3
42.5°	198.1	198.1	201.6	204.3	209.7	211.5	209.7	205.2	201.6	199.0	199.9
45°	211.5	212.4	216.9	222.3	228.5	231.2	228.5	223.2	217.8	212.4	212.4
47.5°	226.7	226.7	232.1	238.4	245.6	248.2	244.7	239.3	232.1	227.6	227.6
50°	236.6	237.5	244.7	252.7	261.7	263.5	260.8	252.7	244.7	238.4	237.5
52.5°	246.5	247.3	255.4	267.1	276.0	278.7	275.1	267.1	255.4	247.3	247.3
55°	252.7	254.5	263.5	276.0	285.9	290.4	285.0	276.0	262.6	253.6	252.7
57.5°	253.6	255.4	264.4	279.6	289.5	294.8	290.4	278.7	264.4	254.5	253.6
60°	251.8	252.7	261.7	277.8	289.5	293.1	289.5	276.9	260.8	252.7	250.9
62.5°	247.3	249.1	258.1	271.5	285.0	287.7	284.1	270.6	257.2	247.3	245.6
65°	233.0	234.8	248.2	261.7	273.3	276.0	273.3	261.7	247.3	233.0	231.2
67.5°	216.9	217.8	231.2	247.3	258.1	262.6	258.1	248.2	230.3	216.9	215.1
70°	199.9	200.7	211.5	228.5	239.3	244.7	240.2	229.4	210.6	199.0	198.1
72.5°	180.1	180.1	190.9	204.3	215.1	220.5	216.9	203.4	189.1	177.4	175.7
75°	153.2	154.1	165.8	175.7	187.3	190.9	187.3	176.5	163.1	151.5	149.7
77.5°	125.5	126.4	136.2	144.3	155.0	157.7	155.0	146.1	133.5	123.7	122.8
80°	95.0	95.9	104.0	111.1	120.1	123.7	121.0	112.0	102.2	93.2	90.5
82.5°	61.8	62.7	70.8	76.2	84.2	86.9	85.1	77.1	69.0	60.0	59.1
85°	27.8	28.7	35.8	40.3	46.6	49.3	47.5	40.3	34.1	26.0	24.2
87.5°	2.7	2.7	2.7	2.7	2.7	3.6	3.6	2.7	2.7	2.7	2.7
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)