

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: P832828

Luminaire Tested: **TTN-D0-735-U-WQ-UPL1**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832828  
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-D0-735-U-WQ-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

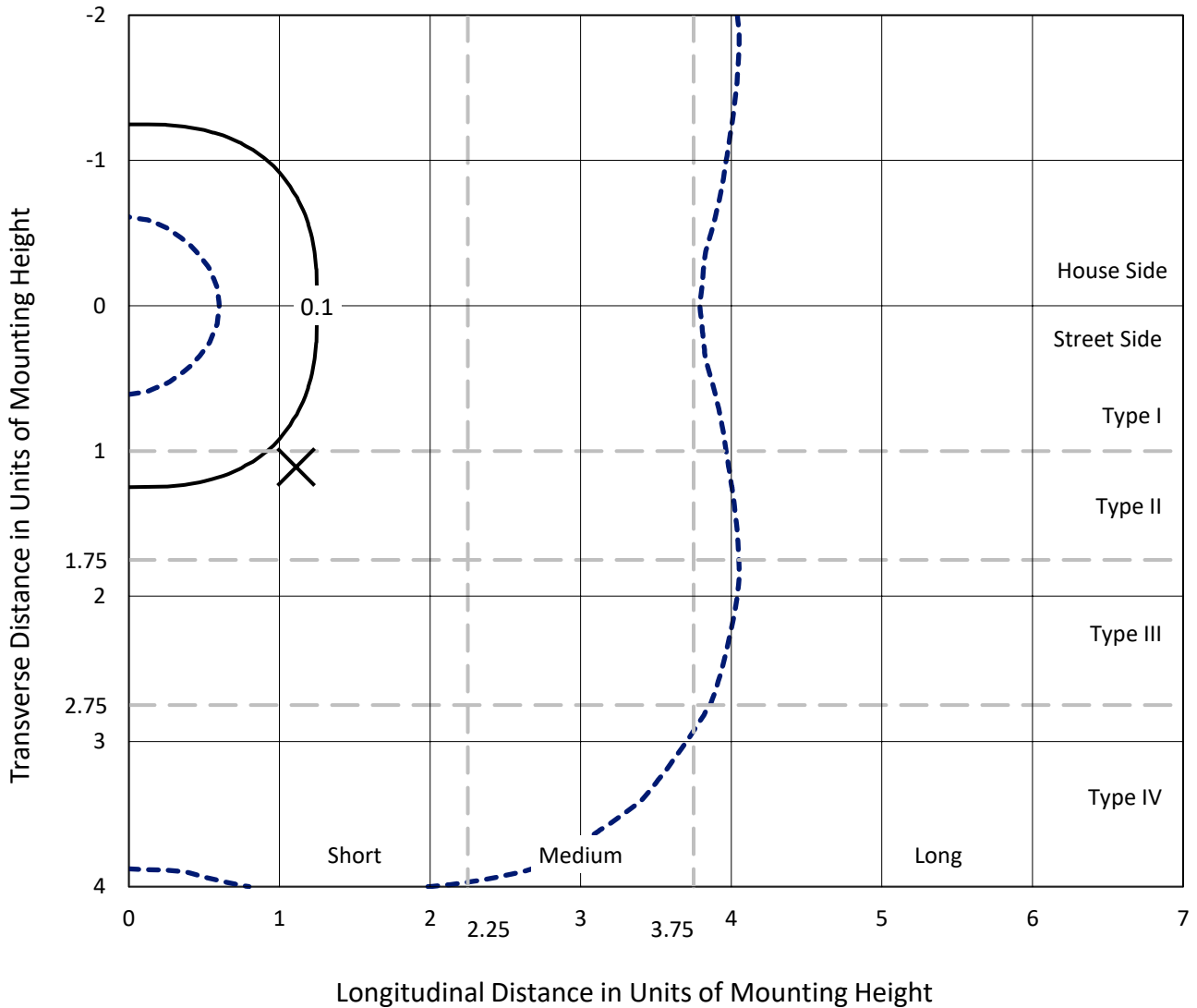
Lumens per Lamp: N/A  
Luminaire Lumens: 1452.9 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U3 - G1  
  
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): 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

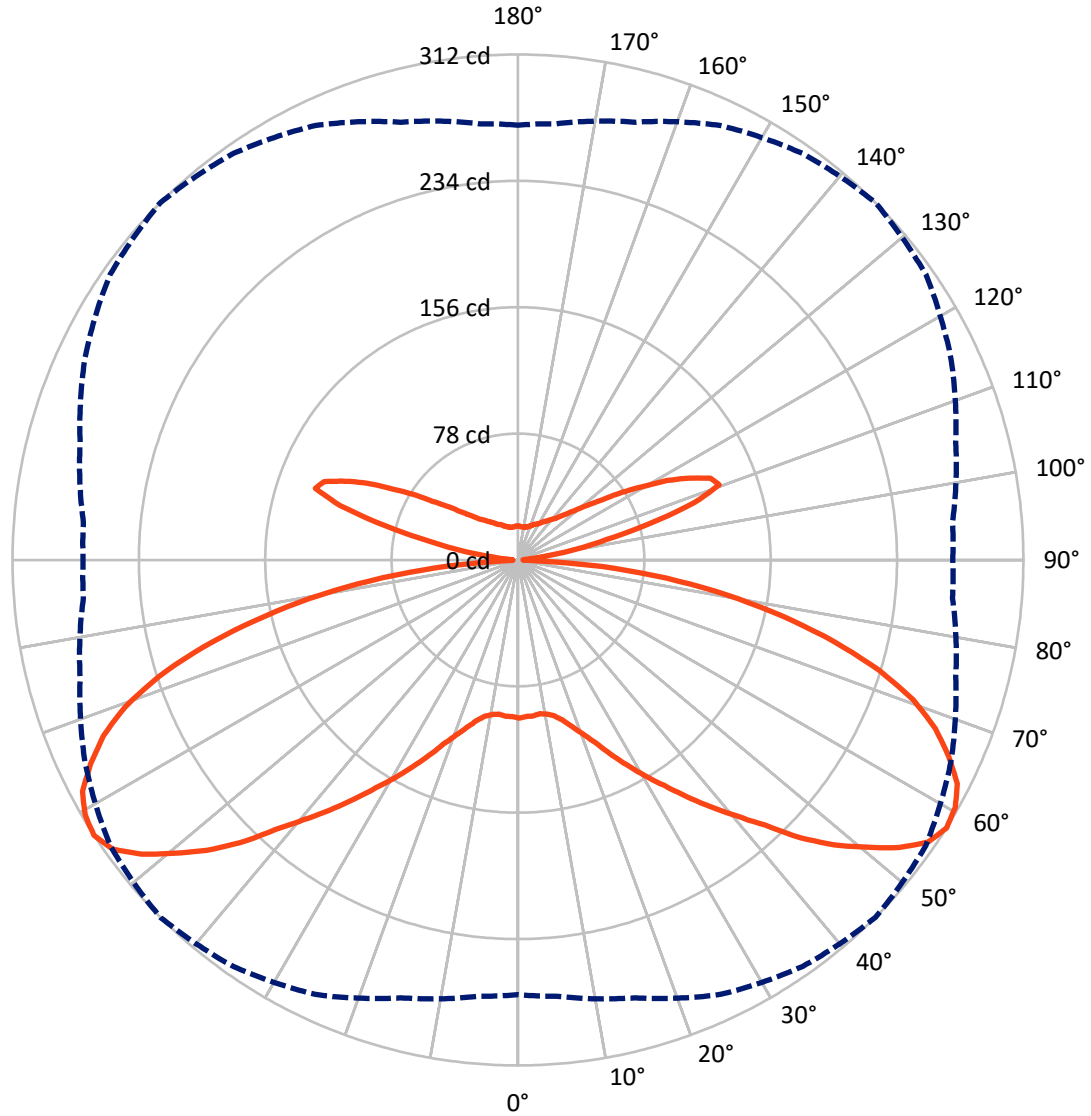
✕ Max cd  
 - - - 1/2 Max cd



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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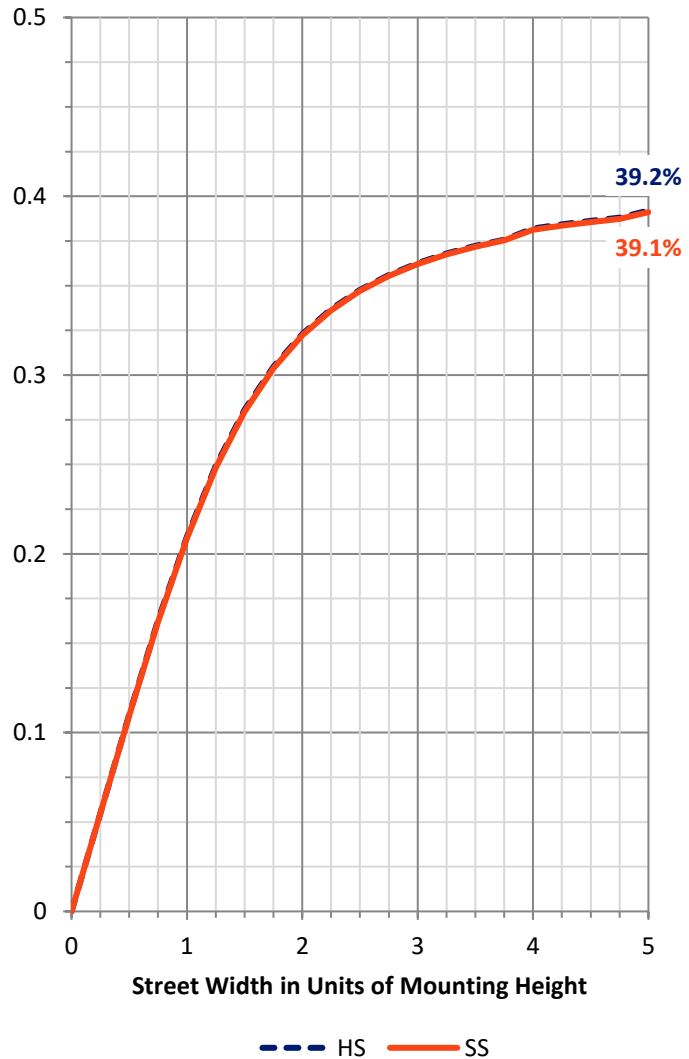
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	576.2	150.2	726.4
	% Fixture	39.7	10.3	50.0
<b>Street Side</b>	Lumens	576.2	150.2	726.4
	% Fixture	39.7	10.3	50.0
<b>Total</b>	Lumens	1152.4	300.5	1452.9
	% Fixture	79.3	20.7	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.2	0.6
10°-20°	29.3	2.0
20°-30°	61.5	4.2
30°-40°	111.5	7.7
40°-50°	181.7	12.5
50°-60°	254.4	17.5
60°-70°	265.6	18.3
70°-80°	189.8	13.1
80°-90°	49.5	3.4
90°-100°	6.7	0.5
100°-110°	68.2	4.7
110°-120°	99.6	6.9
120°-130°	57.8	4.0
130°-140°	30.6	2.1
140°-150°	18.2	1.3
150°-160°	11.2	0.8
160°-170°	6.1	0.4
170°-180°	2.0	0.1
0°-90°	1152.4	79.3
0°-180°	1452.9	100.0

**Coefficient of Utilization**



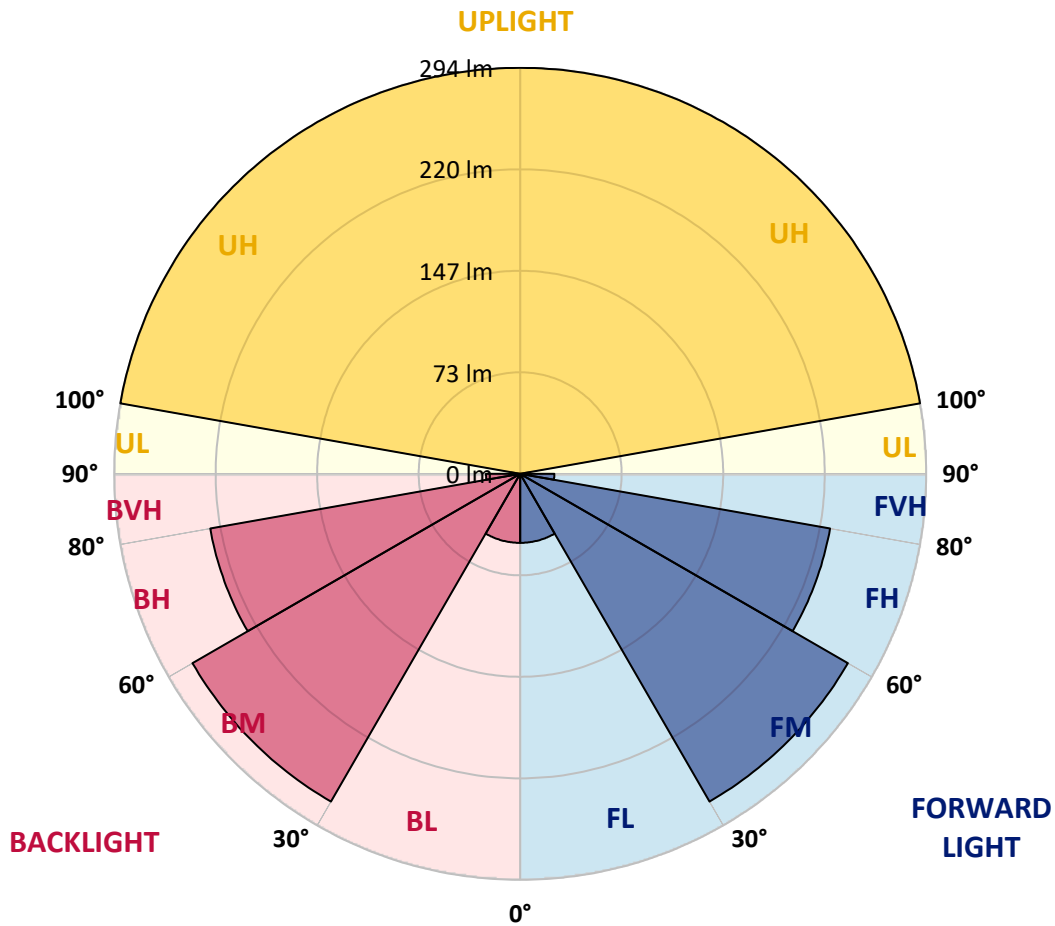
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.0	3.4			
FM (30°-60°)	273.8	18.8			
FH (60°-80°)	227.7	15.7			G0/660
FVH (80°-90°)	24.7	1.7			G1/100
BL (0°-30°)	50.0	3.4	B0/110		
BM (30°-60°)	273.8	18.8	B1/1000		
BH (60°-80°)	227.7	15.7	B1/500		G0/660
BVH (80°-90°)	24.7	1.7			G1/100
UL (90°-100°)	6.7	0.5		U1/10	
UH (100°-180°)	293.8	20.2		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°	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2.5°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
5°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
7.5°	94.8	94.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
10°	94.8	94.8	95.8	95.8	96.7	96.7	96.7	95.8	95.8	94.8	94.8
12.5°	96.7	96.7	96.7	97.6	98.6	98.6	98.6	97.6	97.6	96.7	96.7
15°	99.5	100.5	100.5	101.4	102.4	102.4	102.4	101.4	101.4	100.5	100.5
17.5°	105.2	105.2	105.2	106.2	107.1	108.1	108.1	106.2	106.2	105.2	106.2
20°	110.9	111.9	111.9	112.8	113.8	114.7	113.8	112.8	111.9	111.9	111.9
22.5°	119.5	119.5	120.4	120.4	122.3	122.3	122.3	120.4	120.4	120.4	120.4
25°	128.9	128.9	129.9	130.8	132.7	132.7	131.8	129.9	129.9	129.9	130.8
27.5°	140.3	140.3	141.3	141.3	143.2	143.2	142.2	141.3	141.3	141.3	142.2
30°	150.7	150.7	152.6	153.6	154.5	154.5	154.5	152.6	152.6	151.7	151.7
32.5°	160.2	161.2	162.1	165.0	166.9	165.9	166.9	165.0	163.1	162.1	162.1
35°	170.6	171.6	173.5	176.3	179.2	179.2	179.2	176.3	174.4	172.5	173.5
37.5°	183.0	183.0	185.8	188.7	192.5	193.4	192.5	189.6	186.8	184.9	184.9
40°	196.2	196.2	199.1	201.9	206.7	207.6	206.7	202.9	199.1	198.1	198.1
42.5°	209.5	209.5	213.3	216.2	221.8	223.7	221.8	217.1	213.3	210.5	211.4
45°	223.7	224.7	229.4	235.1	241.7	244.6	241.7	236.1	230.4	224.7	224.7
47.5°	239.9	239.9	245.5	252.2	259.8	262.6	258.8	253.1	245.5	240.8	240.8
50°	250.3	251.2	258.8	267.3	276.8	278.7	275.9	267.3	258.8	252.2	251.2
52.5°	260.7	261.7	270.2	282.5	292.0	294.8	291.0	282.5	270.2	261.7	261.7
55°	267.3	269.2	278.7	292.0	302.4	307.2	301.5	292.0	277.8	268.3	267.3
57.5°	268.3	270.2	279.7	295.8	306.2	311.9	307.2	294.8	279.7	269.2	268.3
60°	266.4	267.3	276.8	293.9	306.2	310.0	306.2	292.9	275.9	267.3	265.5
62.5°	261.7	263.6	273.0	287.3	301.5	304.3	300.5	286.3	272.1	261.7	259.8
65°	246.5	248.4	262.6	276.8	289.2	292.0	289.2	276.8	261.7	246.5	244.6
67.5°	229.4	230.4	244.6	261.7	273.0	277.8	273.0	262.6	243.6	229.4	227.5
70°	211.4	212.4	223.7	241.7	253.1	258.8	254.1	242.7	222.8	210.5	209.5
72.5°	190.6	190.6	201.9	216.2	227.5	233.2	229.4	215.2	200.0	187.7	185.8
75°	162.1	163.1	175.4	185.8	198.1	201.9	198.1	186.8	172.5	160.2	158.3
77.5°	132.7	133.7	144.1	152.6	164.0	166.9	164.0	154.5	141.3	130.8	129.9
80°	100.5	101.4	110.0	117.6	127.0	130.8	128.0	118.5	108.1	98.6	95.8
82.5°	65.4	66.4	74.9	80.6	89.1	92.0	90.1	81.5	73.0	63.5	62.6
85°	29.4	30.3	37.9	42.7	49.3	52.1	50.2	42.7	36.0	27.5	25.6
87.5°	2.8	2.8	2.8	2.8	2.8	3.8	3.8	2.8	2.8	2.8	2.8
90°	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6
92.5°	2.6	2.6	2.6	3.6	4.1	3.6	4.1	3.1	3.1	2.6	2.6
95°	3.1	3.1	3.6	4.6	5.7	6.2	6.2	3.6	3.6	3.1	3.1
97.5°	4.1	4.6	4.6	5.7	9.3	17.0	10.3	5.1	5.1	4.6	4.1
100°	6.7	7.2	7.2	12.9	27.2	36.5	26.2	13.4	9.8	7.2	7.2
102.5°	21.6	22.6	27.8	41.6	61.7	56.0	47.3	44.7	30.8	24.7	23.6
105°	55.0	54.5	58.6	69.4	86.4	84.8	78.1	70.9	61.2	56.5	56.5
107.5°	72.5	72.5	76.1	85.3	98.2	114.6	116.2	92.0	80.7	75.6	75.0
110°	81.7	81.7	84.8	92.5	109.5	132.6	131.6	113.6	99.7	93.0	92.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.8	84.3	88.4	100.2	118.7	129.0	124.4	117.2	111.0	105.9	104.9
115°	86.9	86.9	91.5	102.8	113.1	117.2	112.1	106.4	102.3	100.2	101.3
117.5°	85.8	87.4	88.4	94.6	101.3	104.4	101.8	94.1	91.0	90.0	88.4
120°	79.7	79.7	80.7	83.8	87.4	88.9	87.9	82.8	80.2	79.7	78.6
122.5°	70.9	71.5	70.9	72.5	75.0	76.6	75.6	71.5	70.4	70.4	69.4
125°	62.2	62.2	61.7	62.7	64.3	63.7	64.3	62.2	61.7	61.7	61.2
127.5°	56.0	55.5	54.5	55.0	55.5	55.5	56.0	54.0	54.5	55.0	54.5
130°	49.9	49.9	48.8	48.8	48.8	47.8	48.8	47.8	48.3	48.8	49.3
132.5°	44.2	44.2	42.7	42.2	42.2	42.2	42.7	42.2	43.2	44.2	44.2
135°	39.6	39.6	38.0	38.6	38.6	38.0	38.6	38.0	39.1	39.6	39.6
137.5°	36.0	36.0	35.0	35.0	35.0	34.4	35.0	35.0	35.5	36.5	37.0
140°	32.9	32.9	32.4	32.4	31.9	32.4	32.4	32.4	32.9	33.4	33.4
142.5°	31.4	30.8	30.3	29.8	30.3	30.3	30.3	29.8	30.3	31.4	31.4
145°	28.8	28.8	28.3	28.3	28.3	28.8	28.3	28.3	28.8	28.8	29.3
147.5°	27.2	27.2	26.7	27.2	27.2	27.2	27.2	26.7	27.2	27.2	27.8
150°	26.7	26.2	25.7	26.2	26.2	25.7	25.7	25.7	25.7	26.2	26.2
152.5°	25.2	25.2	24.7	25.2	24.7	24.7	24.7	24.7	24.7	25.2	25.7
155°	24.2	24.2	23.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
157.5°	23.1	23.6	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.6	23.6
160°	22.6	22.6	22.6	22.6	22.1	22.1	22.1	22.6	22.6	22.6	23.1
162.5°	22.1	22.1	22.1	22.1	21.6	21.6	21.6	21.6	22.1	22.1	22.6
165°	22.1	21.6	21.6	21.6	21.1	21.1	21.1	21.1	21.6	22.1	21.6
167.5°	21.1	21.1	21.1	21.1	21.1	20.6	20.6	21.1	21.1	21.1	21.6
170°	21.1	21.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.1
172.5°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	20.6	20.6	21.1	21.1
175°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	21.1	21.1	21.1	20.6
177.5°	21.1	21.1	21.1	21.1	20.6	21.1	21.1	21.1	21.1	21.1	21.1
180°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

(END OF REPORT)