

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: P832813

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832813
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-MQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1508.9 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

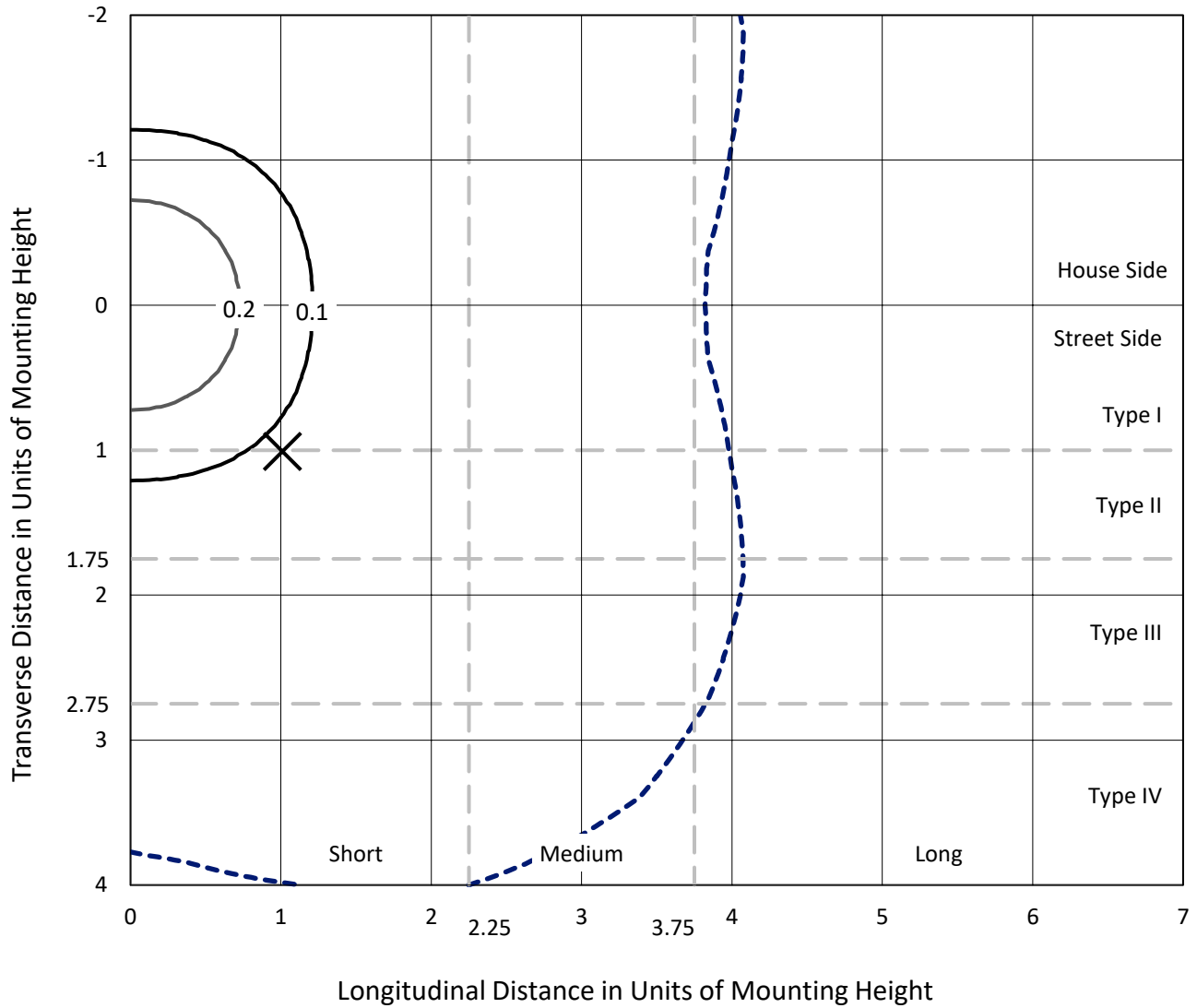
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

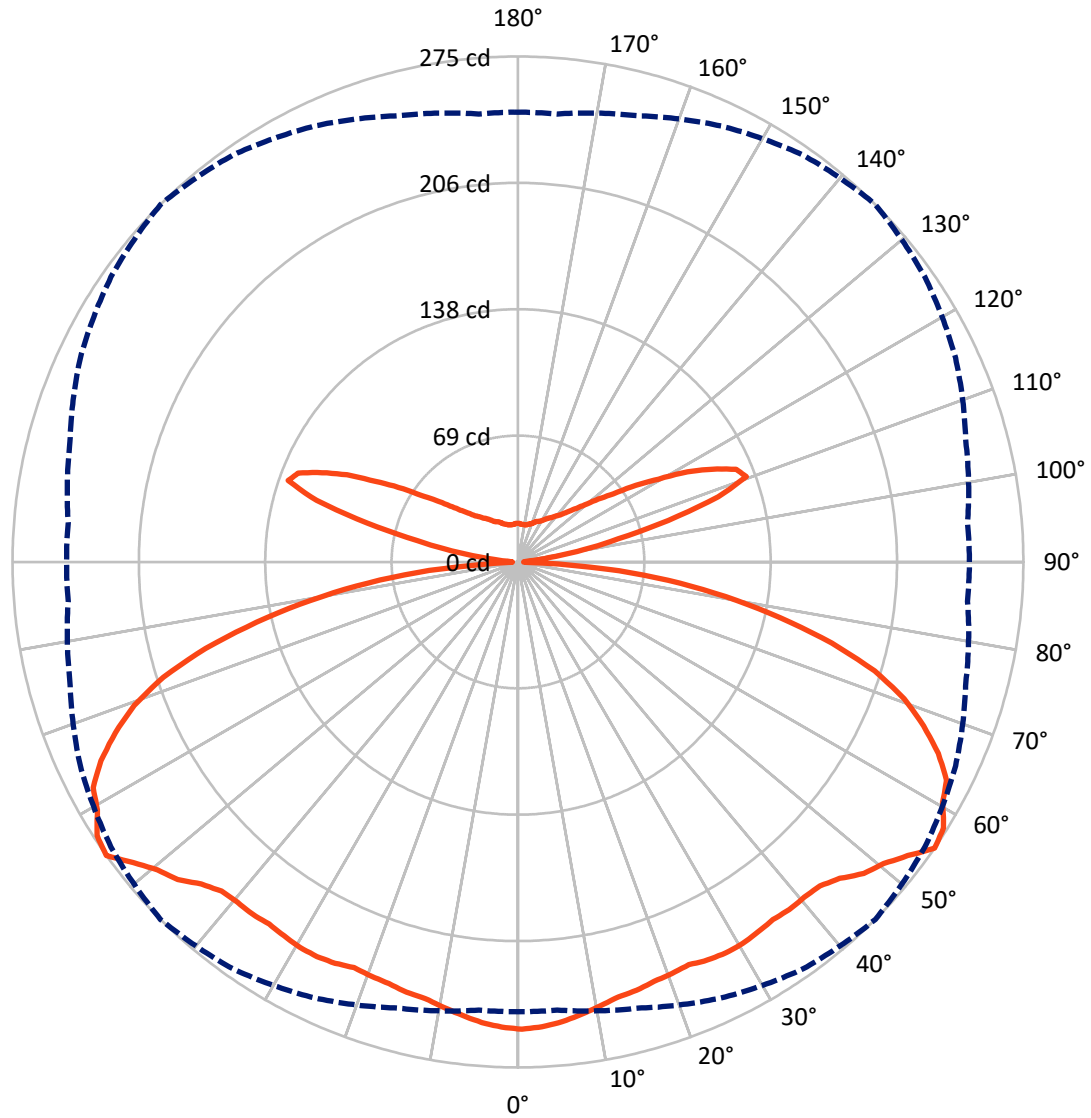
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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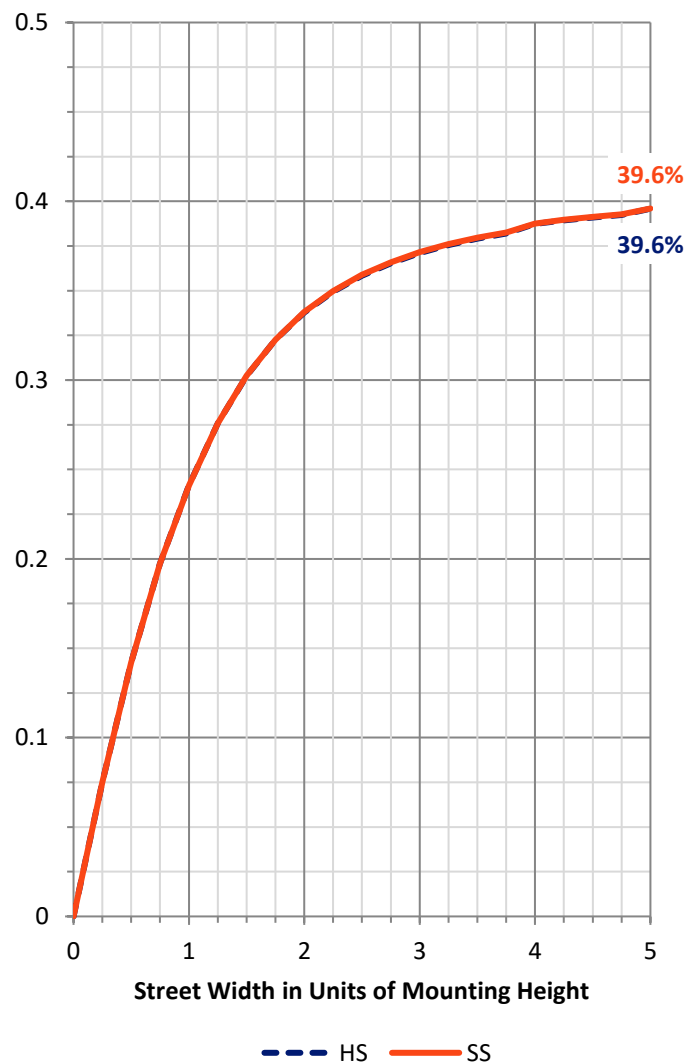
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.2	150.2	754.4
	% Fixture	40.0	10.0	50.0
Street Side	Lumens	604.2	150.2	754.4
	% Fixture	40.0	10.0	50.0
Total	Lumens	1208.4	300.5	1508.9
	% Fixture	80.1	19.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	1.6
10°-20°	68.3	4.5
20°-30°	110.4	7.3
30°-40°	149.3	9.9
40°-50°	187.1	12.4
50°-60°	229.3	15.2
60°-70°	229.8	15.2
70°-80°	165.8	11.0
80°-90°	44.6	3.0
90°-100°	6.7	0.4
100°-110°	68.2	4.5
110°-120°	99.6	6.6
120°-130°	57.8	3.8
130°-140°	30.6	2.0
140°-150°	18.2	1.2
150°-160°	11.2	0.7
160°-170°	6.1	0.4
170°-180°	2.0	0.1
0°-90°	1208.4	80.1
0°-180°	1508.9	100.0



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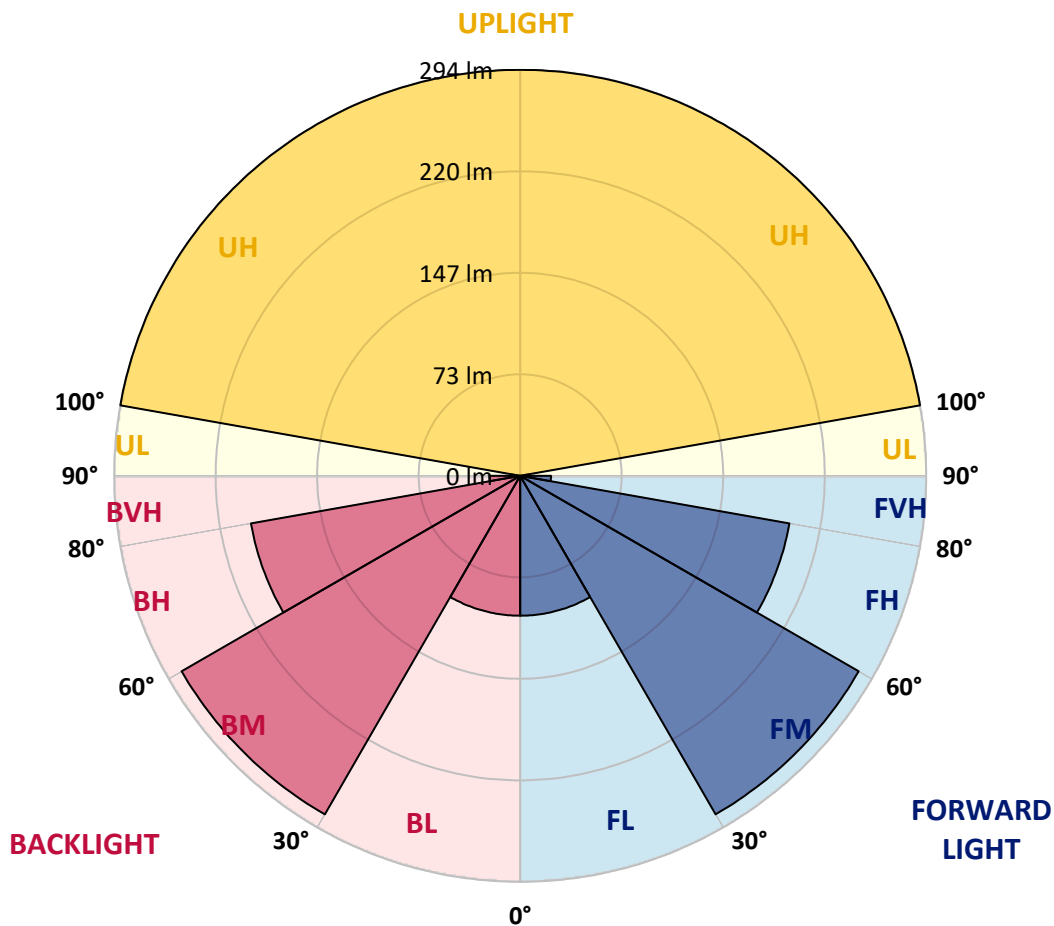
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.2	6.7			
FM (30°-60°)	282.8	18.7			
FH (60°-80°)	197.8	13.1			G0/660
FVH (80°-90°)	22.3	1.5			G1/100
BL (0°-30°)	101.2	6.7	B0/110		
BM (30°-60°)	282.8	18.7	B1/1000		
BH (60°-80°)	197.8	13.1	B1/500		G0/660
BVH (80°-90°)	22.3	1.5			G1/100
UL (90°-100°)	6.7	0.4		U1/10	
UH (100°-180°)	293.8	19.5		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°	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2
2.5°	253.2	253.2	253.2	252.3	253.2	253.2	253.2	253.2	253.2	253.2	253.2
5°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3
7.5°	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
10°	244.7	244.7	244.7	244.7	245.6	245.6	245.6	245.6	244.7	244.7	244.7
12.5°	241.8	241.8	241.8	242.8	242.8	242.8	242.8	242.8	242.8	242.8	241.8
15°	240.9	240.9	240.9	240.9	241.8	241.8	241.8	241.8	240.9	240.9	240.9
17.5°	239.0	239.0	239.0	239.9	239.9	239.9	239.9	239.9	239.0	239.0	239.0
20°	237.1	237.1	238.0	238.0	239.0	239.0	239.0	238.0	238.0	237.1	238.0
22.5°	237.1	237.1	237.1	238.0	238.0	238.0	238.0	237.1	237.1	237.1	237.1
25°	237.1	237.1	238.0	239.0	239.0	239.9	239.0	238.0	237.1	237.1	237.1
27.5°	238.0	238.0	239.0	239.9	239.9	240.9	239.9	239.0	238.0	238.0	238.0
30°	238.0	238.0	239.0	239.9	239.9	240.9	239.9	239.0	238.0	238.0	238.0
32.5°	236.1	237.1	238.0	239.0	239.9	239.9	239.9	239.0	238.0	237.1	237.1
35°	235.2	236.1	237.1	238.0	239.0	239.0	239.0	238.0	237.1	236.1	236.1
37.5°	234.2	234.2	236.1	237.1	238.0	239.9	239.0	237.1	236.1	235.2	235.2
40°	233.3	234.2	235.2	237.1	238.0	239.9	239.0	237.1	235.2	234.2	234.2
42.5°	233.3	233.3	235.2	237.1	239.0	240.9	239.9	238.0	235.2	234.2	233.3
45°	234.2	235.2	238.0	241.8	243.7	245.6	244.7	241.8	237.1	235.2	234.2
47.5°	238.0	239.0	241.8	245.6	250.4	253.2	250.4	245.6	241.8	239.0	238.0
50°	239.9	240.9	245.6	250.4	257.0	257.9	257.0	250.4	245.6	240.9	240.9
52.5°	243.7	243.7	249.4	257.9	263.6	265.5	263.6	258.9	249.4	244.7	243.7
55°	244.7	244.7	251.3	261.7	270.3	275.0	270.3	262.7	252.3	245.6	245.6
57.5°	239.0	240.9	249.4	259.8	270.3	273.1	270.3	260.8	250.4	241.8	240.9
60°	232.3	235.2	242.8	255.1	262.7	265.5	263.6	255.1	243.7	235.2	234.2
62.5°	225.7	229.5	238.0	247.5	258.9	261.7	258.9	247.5	238.0	229.5	225.7
65°	211.5	215.3	227.6	239.0	249.4	251.3	250.4	239.0	227.6	215.3	213.4
67.5°	197.3	200.1	208.6	226.7	235.2	238.0	236.1	225.7	209.6	200.1	199.2
70°	182.1	184.9	192.5	209.6	218.1	222.9	219.1	209.6	192.5	184.9	184.0
72.5°	162.2	166.0	174.5	189.7	198.2	202.9	199.2	189.7	174.5	165.0	163.1
75°	138.5	141.3	151.7	164.1	172.6	176.4	173.5	165.0	151.7	141.3	140.4
77.5°	112.9	115.7	125.2	137.5	142.3	146.0	143.2	136.6	125.2	115.7	114.7
80°	85.4	88.2	96.7	106.2	111.0	114.7	111.9	105.3	96.7	88.2	87.2
82.5°	56.0	58.8	66.4	74.0	78.7	82.5	79.7	73.0	67.3	58.8	57.8
85°	23.7	26.6	33.2	40.8	44.6	48.4	45.5	39.8	33.2	27.5	26.6
87.5°	1.9	2.8	2.8	3.8	2.8	4.7	2.8	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)