

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: P832858

Luminaire Tested: **TTN-D0-740-U-WQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832858
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-D0-740-U-WQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1539 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

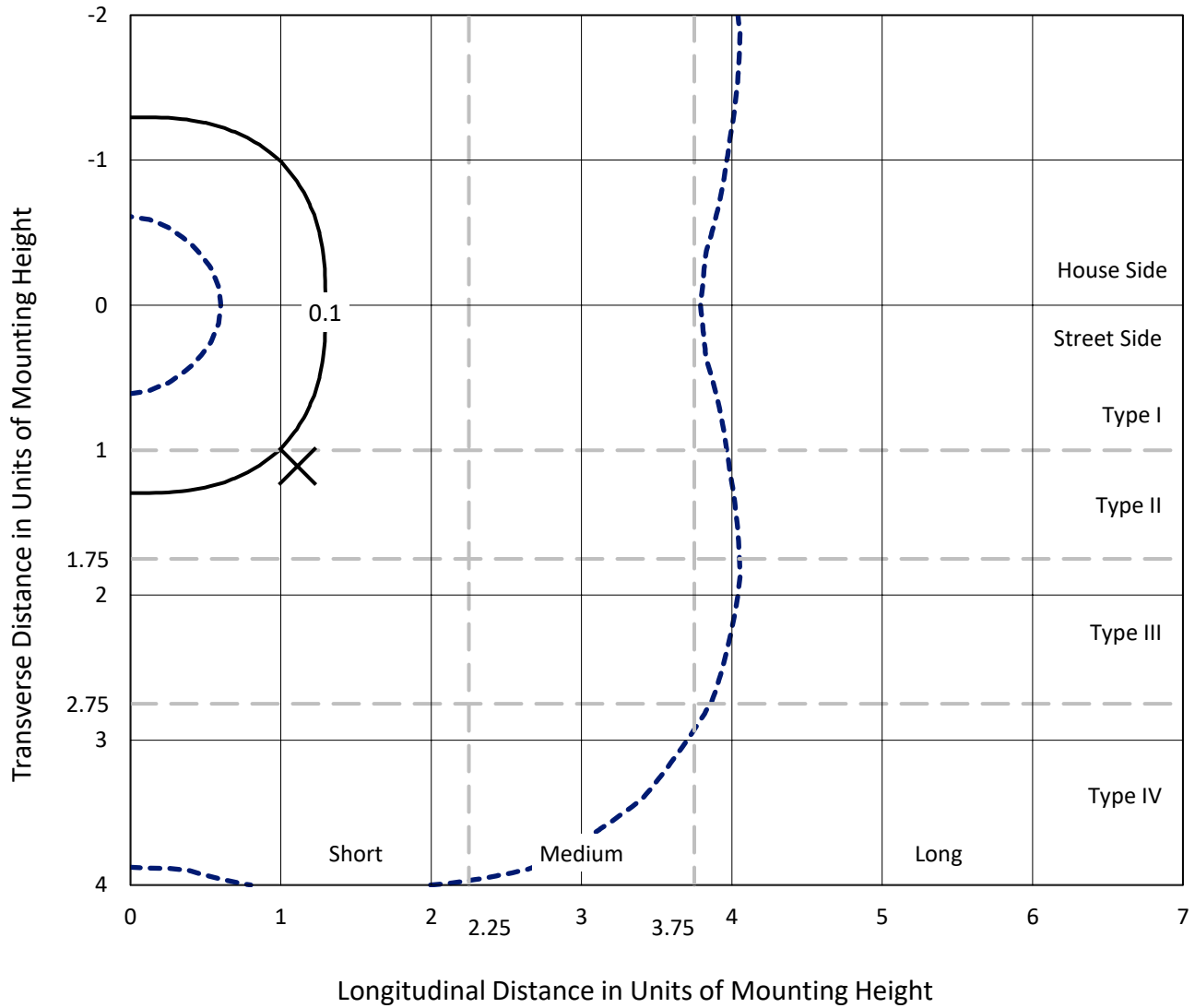
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P832858
 CATALOG NUMBER: TTN-D0-740-U-WQ-UPL1

Iso-Footcandle Lines of Horizontal Illumination

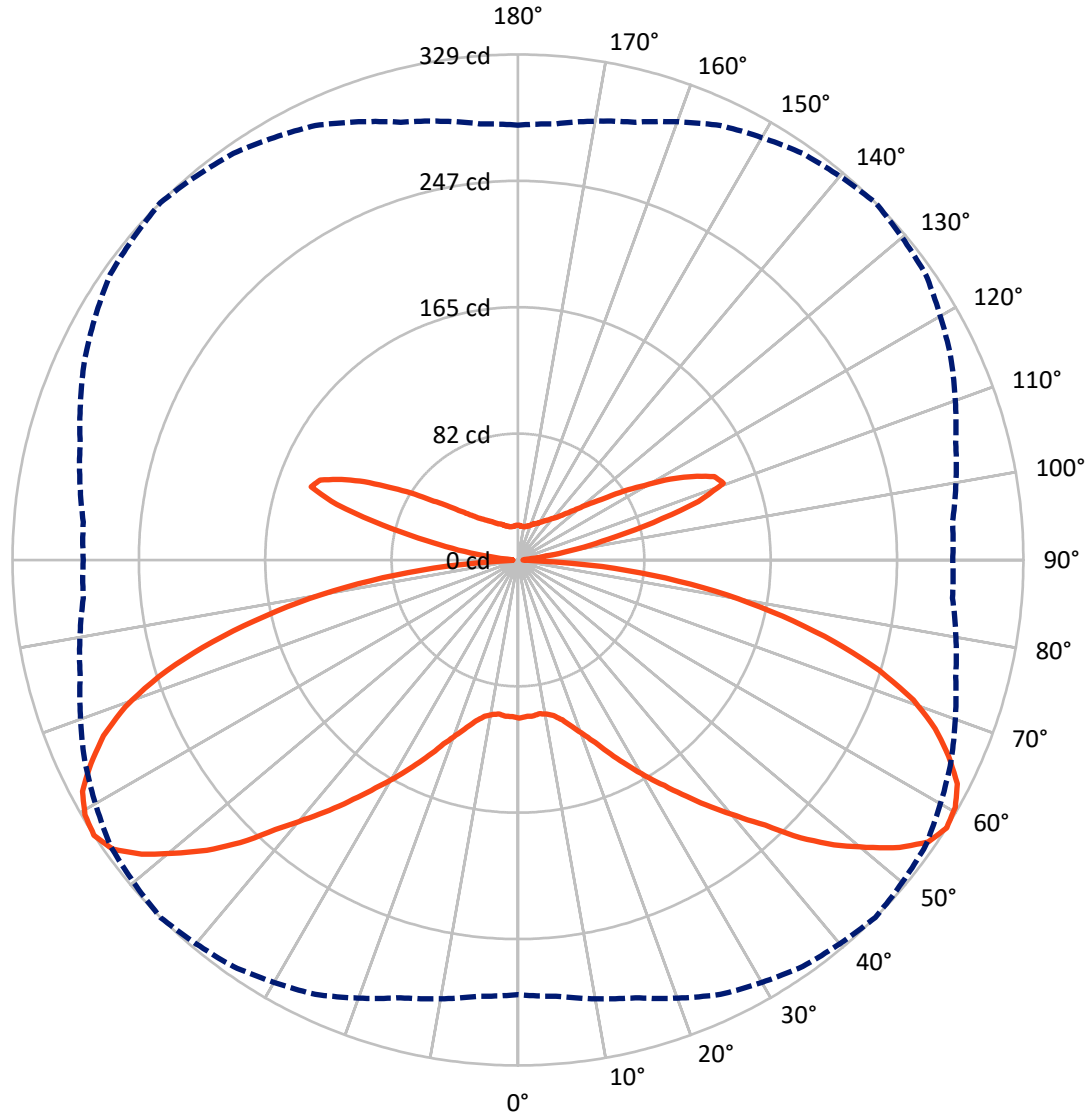
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type V - Short - N/A

REPORT NUMBER: P832858
CATALOG NUMBER: TTN-D0-740-U-WQ-UPL1

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P832858

CATALOG NUMBER: TTN-D0-740-U-WQ-UPL1

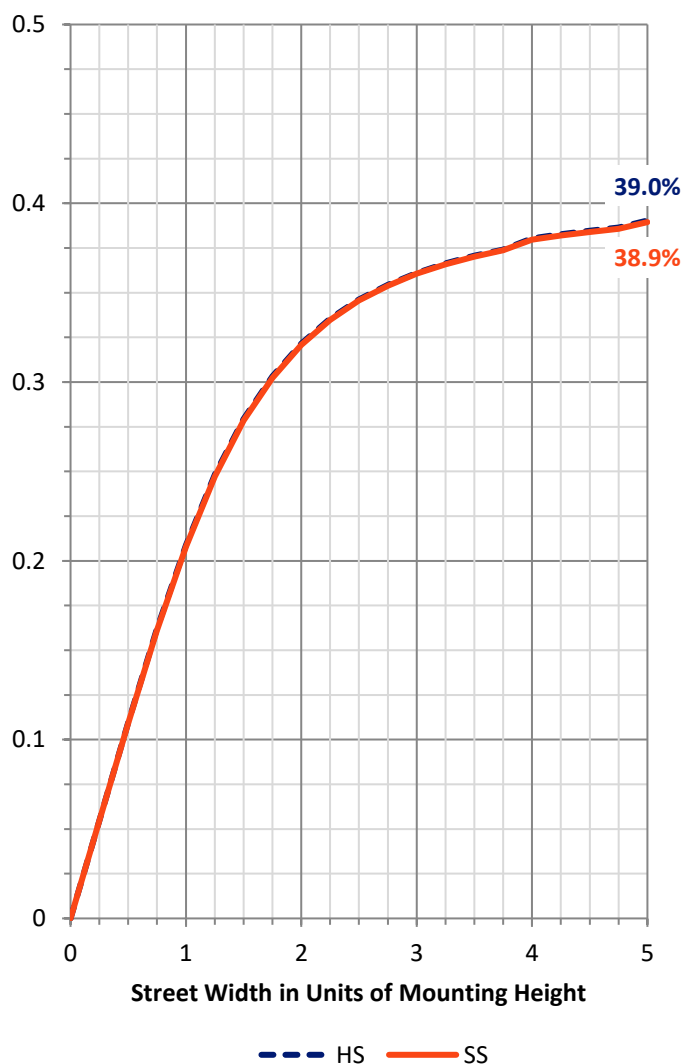
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	607.8	161.7	769.5
	% Fixture	39.5	10.5	50.0
Street Side	Lumens	607.8	161.7	769.5
	% Fixture	39.5	10.5	50.0
Total	Lumens	1215.6	323.4	1539.0
	% Fixture	79.0	21.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.6
10°-20°	30.9	2.0
20°-30°	64.8	4.2
30°-40°	117.6	7.6
40°-50°	191.7	12.5
50°-60°	268.3	17.4
60°-70°	280.1	18.2
70°-80°	200.2	13.0
80°-90°	52.2	3.4
90°-100°	7.2	0.5
100°-110°	73.4	4.8
110°-120°	107.3	7.0
120°-130°	62.3	4.0
130°-140°	33.0	2.1
140°-150°	19.6	1.3
150°-160°	12.1	0.8
160°-170°	6.6	0.4
170°-180°	2.1	0.1
0°-90°	1215.6	79.0
0°-180°	1539.0	100.0

Coefficient of Utilization



REPORT NUMBER: P832858

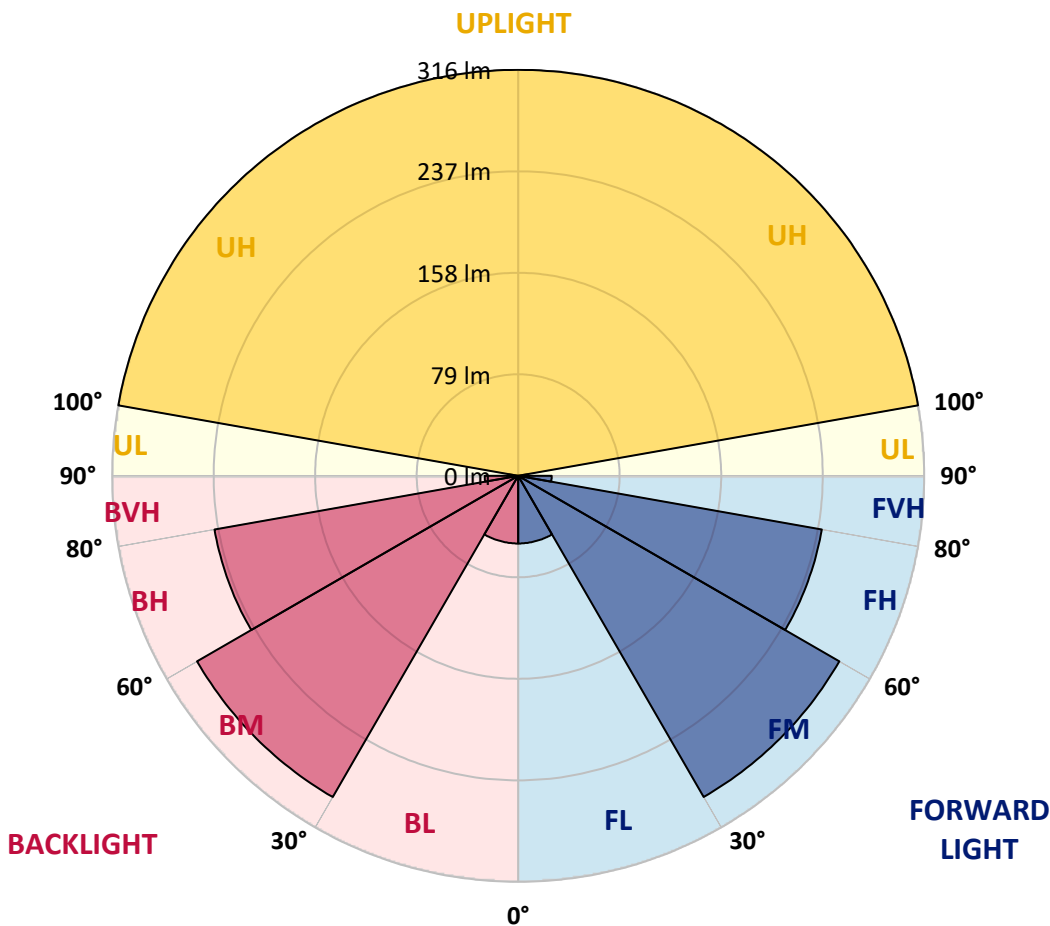
CATALOG NUMBER: TTN-D0-740-U-WQ-UPL1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	52.7	3.4			
FM (30°-60°)	288.8	18.8			
FH (60°-80°)	240.2	15.6			G0/660
FVH (80°-90°)	26.1	1.7			G1/100
BL (0°-30°)	52.7	3.4	B0/110		
BM (30°-60°)	288.8	18.8	B1/1000		
BH (60°-80°)	240.2	15.6	B1/500		G0/660
BVH (80°-90°)	26.1	1.7			G1/100
UL (90°-100°)	7.2	0.5		U1/10	
UH (100°-180°)	316.2	20.5		U3/500	

BUG Rating: B1-U3-G1

Type V Short





REPORT NUMBER: P832858
 CATALOG NUMBER: TTN-D0-740-U-WQ-UPL1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
5°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
7.5°	100.0	100.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0
10°	100.0	100.0	101.0	101.0	102.0	102.0	102.0	101.0	101.0	100.0	100.0
12.5°	102.0	102.0	102.0	103.0	104.0	104.0	104.0	103.0	103.0	102.0	102.0
15°	105.0	106.0	106.0	107.0	108.0	108.0	108.0	107.0	107.0	106.0	106.0
17.5°	111.0	111.0	111.0	112.0	113.0	114.0	114.0	112.0	112.0	111.0	112.0
20°	117.0	118.0	118.0	119.0	120.0	121.0	120.0	119.0	118.0	118.0	118.0
22.5°	126.0	126.0	127.0	127.0	129.0	129.0	129.0	127.0	127.0	127.0	127.0
25°	136.0	136.0	137.0	138.0	140.0	140.0	139.0	137.0	137.0	137.0	138.0
27.5°	148.0	148.0	149.0	149.0	151.0	151.0	150.0	149.0	149.0	149.0	150.0
30°	159.0	159.0	161.0	162.0	163.0	163.0	163.0	161.0	161.0	160.0	160.0
32.5°	169.0	170.0	171.0	174.0	176.0	175.0	176.0	174.0	172.0	171.0	171.0
35°	180.0	181.0	183.0	186.0	189.0	189.0	189.0	186.0	184.0	182.0	183.0
37.5°	193.0	193.0	196.0	199.0	203.0	204.0	203.0	200.0	197.0	195.0	195.0
40°	207.0	207.0	210.0	213.0	218.0	219.0	218.0	214.0	210.0	209.0	209.0
42.5°	221.0	221.0	225.0	228.0	234.0	236.0	234.0	229.0	225.0	222.0	223.0
45°	236.0	237.0	242.0	248.0	255.0	258.0	255.0	249.0	243.0	237.0	237.0
47.5°	253.0	253.0	259.0	266.0	274.0	277.0	273.0	267.0	259.0	254.0	254.0
50°	264.0	265.0	273.0	282.0	292.0	294.0	291.0	282.0	273.0	266.0	265.0
52.5°	275.0	276.0	285.0	298.0	308.0	311.0	307.0	298.0	285.0	276.0	276.0
55°	282.0	284.0	294.0	308.0	319.0	324.0	318.0	308.0	293.0	283.0	282.0
57.5°	283.0	285.0	295.0	312.0	323.0	329.0	324.0	311.0	295.0	284.0	283.0
60°	281.0	282.0	292.0	310.0	323.0	327.0	323.0	309.0	291.0	282.0	280.0
62.5°	276.0	278.0	288.0	303.0	318.0	321.0	317.0	302.0	287.0	276.0	274.0
65°	260.0	262.0	277.0	292.0	305.0	308.0	305.0	292.0	276.0	260.0	258.0
67.5°	242.0	243.0	258.0	276.0	288.0	293.0	288.0	277.0	257.0	242.0	240.0
70°	223.0	224.0	236.0	255.0	267.0	273.0	268.0	256.0	235.0	222.0	221.0
72.5°	201.0	201.0	213.0	228.0	240.0	246.0	242.0	227.0	211.0	198.0	196.0
75°	171.0	172.0	185.0	196.0	209.0	213.0	209.0	197.0	182.0	169.0	167.0
77.5°	140.0	141.0	152.0	161.0	173.0	176.0	173.0	163.0	149.0	138.0	137.0
80°	106.0	107.0	116.0	124.0	134.0	138.0	135.0	125.0	114.0	104.0	101.0
82.5°	69.0	70.0	79.0	85.0	94.0	97.0	95.0	86.0	77.0	67.0	66.0
85°	31.0	32.0	40.0	45.0	52.0	55.0	53.0	45.0	38.0	29.0	27.0
87.5°	3.0	3.0	3.0	3.0	3.0	4.0	4.0	3.0	3.0	3.0	3.0
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



REPORT NUMBER: P832858
 CATALOG NUMBER: TTN-D0-740-U-WQ-UPL1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)