

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: P832849

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832849
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-RW-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1508.8 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U3 - G1

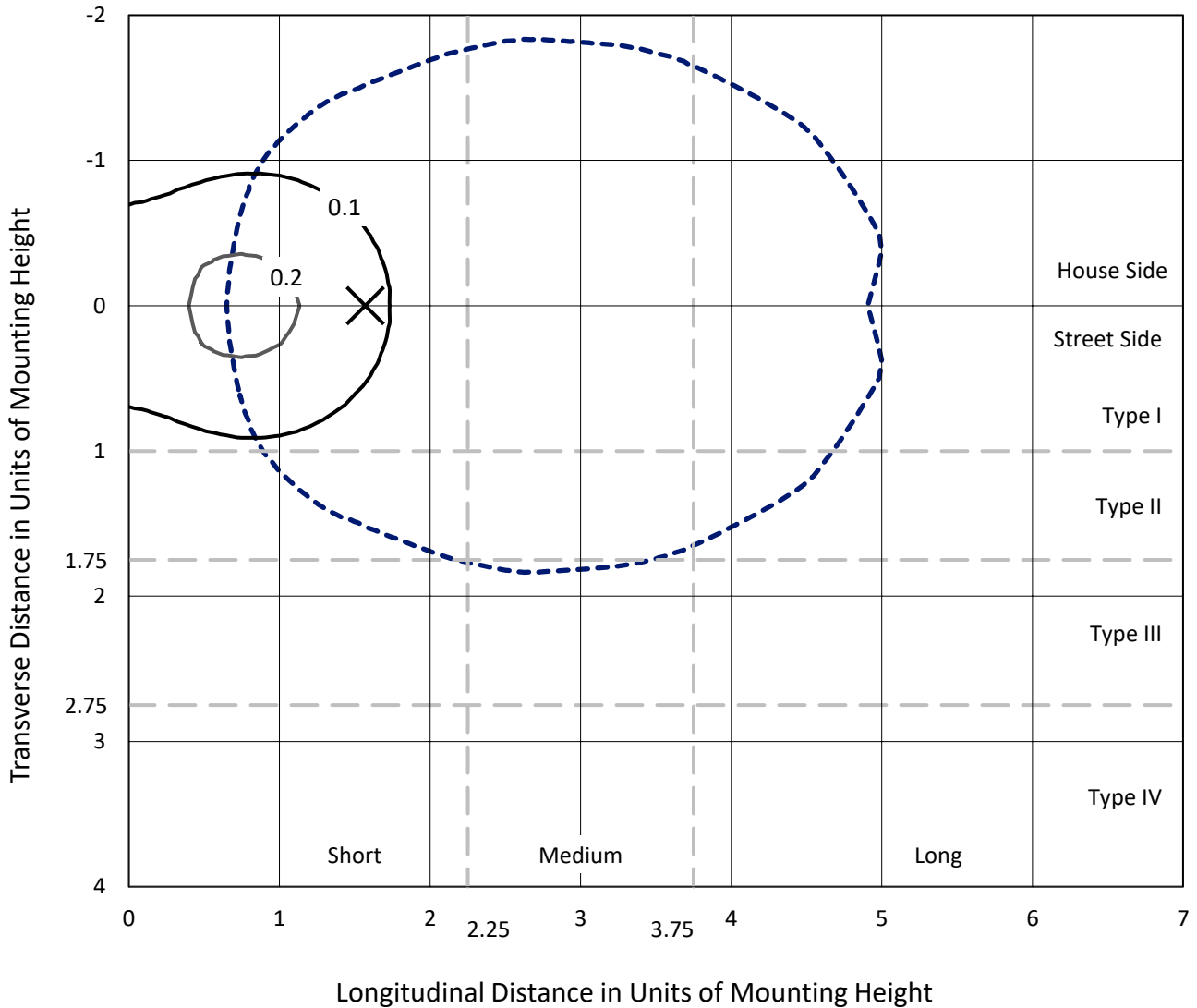
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P832849
 CATALOG NUMBER: TTN-D0-740-U-RW-UPL1

Iso-Footcandle Lines of Horizontal Illumination

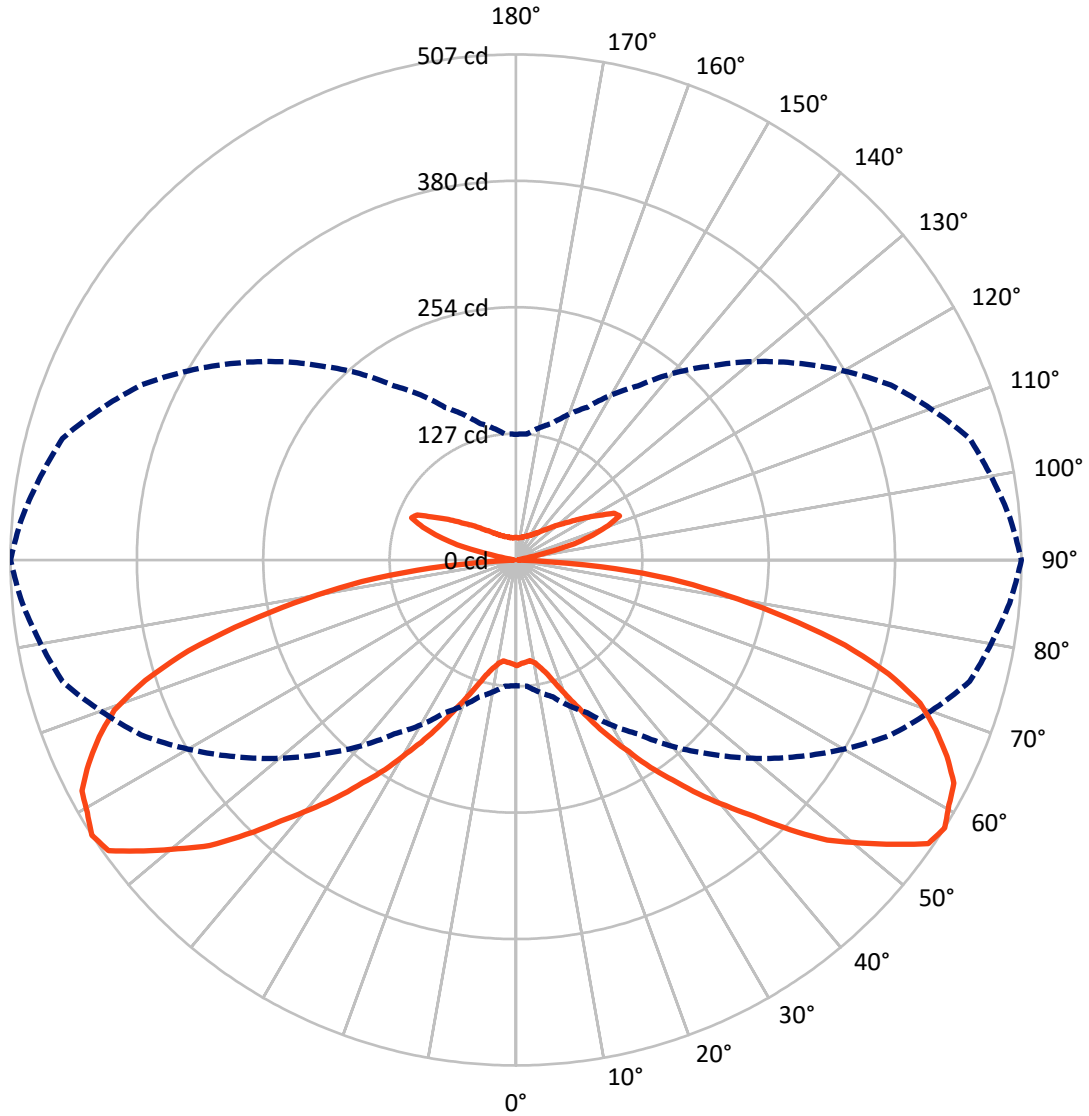
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P832849
CATALOG NUMBER: TTN-D0-740-U-RW-UPL1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P832849
 CATALOG NUMBER: TTN-D0-740-U-RW-UPL1

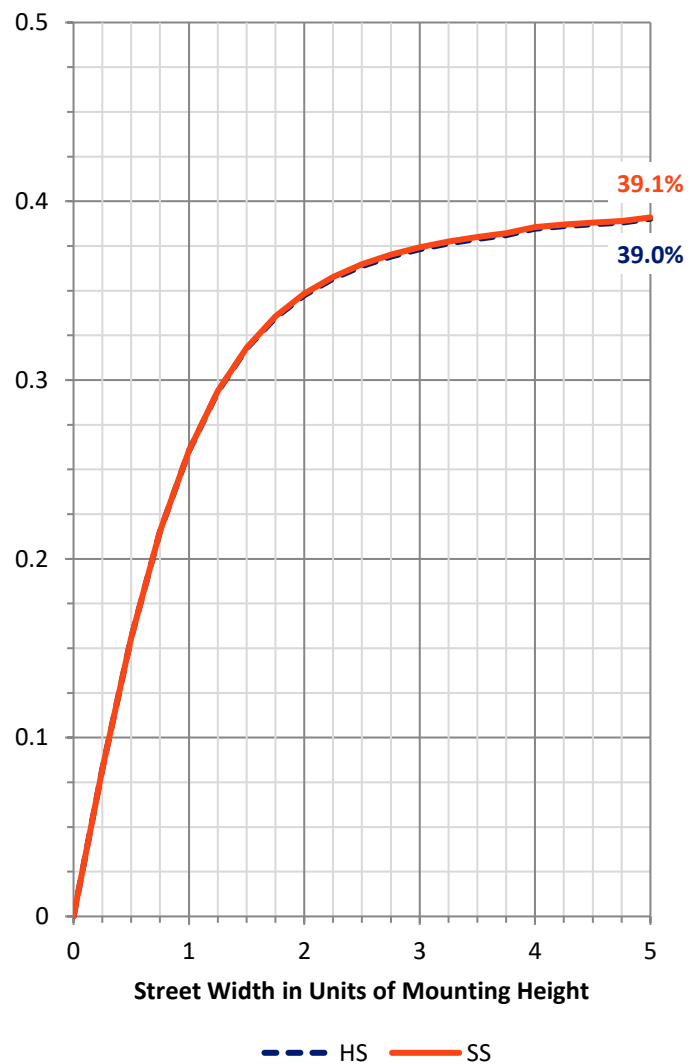
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	592.7	161.7	754.4
	% Fixture	39.3	10.7	50.0
Street Side	Lumens	592.7	161.7	754.4
	% Fixture	39.3	10.7	50.0
Total	Lumens	1185.4	323.4	1508.8
	% Fixture	78.6	21.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.7
10°-20°	31.8	2.1
20°-30°	66.3	4.4
30°-40°	118.9	7.9
40°-50°	190.0	12.6
50°-60°	260.1	17.2
60°-70°	268.3	17.8
70°-80°	190.8	12.6
80°-90°	49.3	3.3
90°-100°	7.2	0.5
100°-110°	73.4	4.9
110°-120°	107.3	7.1
120°-130°	62.3	4.1
130°-140°	33.0	2.2
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°	1185.4	78.6
0°-180°	1508.8	100.0

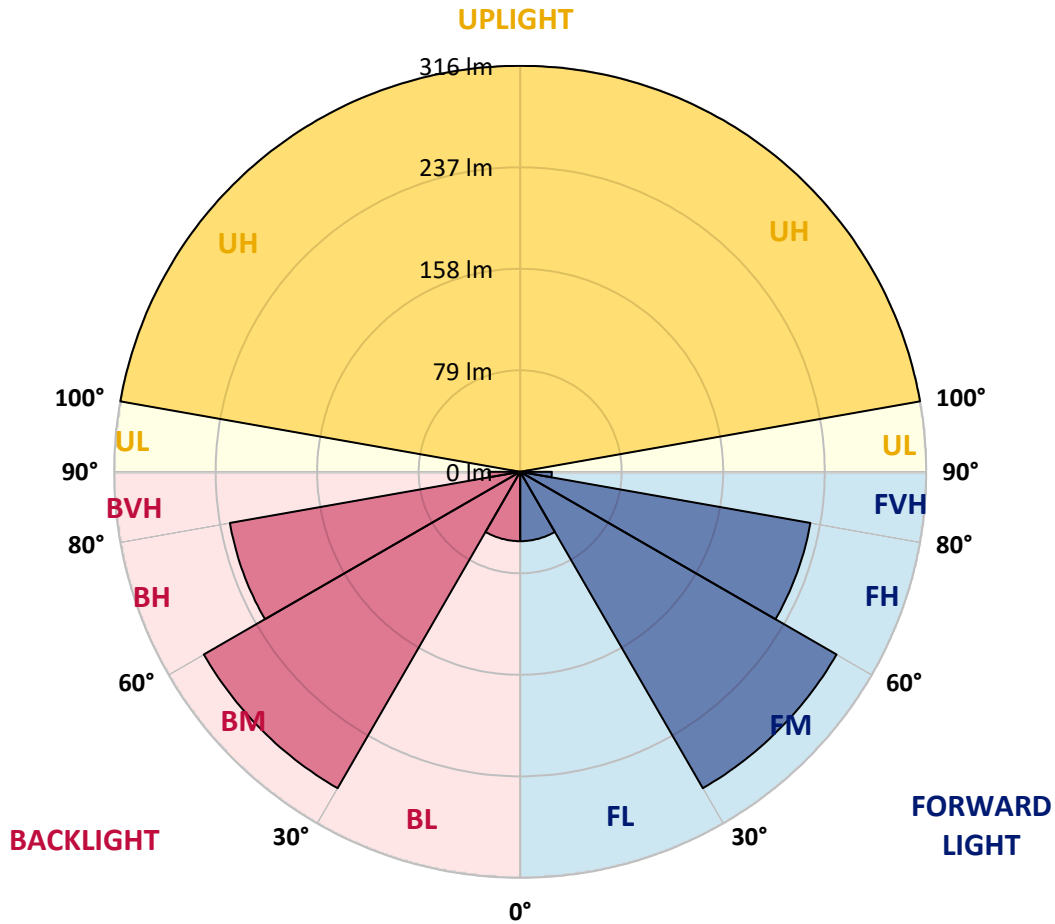


REPORT NUMBER: P832849
 CATALOG NUMBER: TTN-D0-740-U-RW-UPL1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	54.0	3.6			
FM (30°-60°)	284.5	18.9			
FH (60°-80°)	229.6	15.2			G0/660
FVH (80°-90°)	24.6	1.6			G1/100
BL (0°-30°)	54.0	3.6	B0/110		
BM (30°-60°)	284.5	18.9	B1/1000		
BH (60°-80°)	229.6	15.2	B1/500		G1/500
BVH (80°-90°)	24.6	1.6			G1/100
UL (90°-100°)	7.2	0.5		U1/10	
UH (100°-180°)	316.2	21.0		U3/500	

BUG Rating: B1-U3-G1
 Type II Short





REPORT NUMBER: P832849
 CATALOG NUMBER: TTN-D0-740-U-RW-UPL1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	106.0	106.0	105.0	105.0	105.0	104.0	104.0	104.0	104.0	103.0	104.0
5°	106.0	106.0	106.0	106.0	105.0	104.0	104.0	104.0	103.0	103.0	103.0
7.5°	105.0	105.0	105.0	105.0	104.0	103.0	103.0	103.0	102.0	102.0	102.0
10°	104.0	105.0	104.0	104.0	103.0	103.0	104.0	104.0	105.0	105.0	105.0
12.5°	103.0	103.0	103.0	104.0	104.0	105.0	107.0	109.0	110.0	111.0	111.0
15°	103.0	103.0	104.0	105.0	107.0	109.0	112.0	115.0	117.0	119.0	119.0
17.5°	103.0	103.0	104.0	107.0	110.0	114.0	119.0	123.0	127.0	130.0	131.0
20°	103.0	103.0	105.0	109.0	115.0	121.0	128.0	134.0	140.0	145.0	145.0
22.5°	104.0	105.0	107.0	112.0	121.0	130.0	139.0	148.0	155.0	161.0	161.0
25°	106.0	106.0	109.0	117.0	128.0	140.0	153.0	164.0	173.0	181.0	181.0
27.5°	107.0	108.0	112.0	122.0	136.0	151.0	169.0	182.0	194.0	201.0	202.0
30°	109.0	110.0	116.0	126.0	143.0	162.0	183.0	201.0	214.0	221.0	223.0
32.5°	110.0	111.0	119.0	131.0	150.0	172.0	196.0	219.0	237.0	245.0	248.0
35°	113.0	114.0	122.0	136.0	158.0	183.0	211.0	238.0	259.0	269.0	271.0
37.5°	116.0	117.0	125.0	141.0	166.0	195.0	227.0	258.0	282.0	294.0	298.0
40°	118.0	119.0	128.0	147.0	175.0	208.0	245.0	279.0	306.0	321.0	324.0
42.5°	121.0	122.0	132.0	152.0	183.0	221.0	264.0	302.0	331.0	348.0	352.0
45°	124.0	125.0	136.0	158.0	192.0	235.0	283.0	329.0	362.0	382.0	386.0
47.5°	127.0	128.0	140.0	164.0	201.0	249.0	303.0	353.0	393.0	412.0	420.0
50°	128.0	130.0	142.0	168.0	207.0	261.0	320.0	377.0	419.0	444.0	446.0
52.5°	129.0	131.0	144.0	171.0	212.0	270.0	334.0	397.0	446.0	476.0	474.0
55°	130.0	130.0	144.0	171.0	214.0	276.0	344.0	410.0	464.0	488.0	502.0
57.5°	126.0	127.0	142.0	169.0	213.0	275.0	344.0	415.0	471.0	497.0	507.0
60°	121.0	123.0	137.0	164.0	209.0	272.0	342.0	413.0	474.0	502.0	499.0
62.5°	114.0	118.0	130.0	157.0	203.0	265.0	339.0	408.0	467.0	496.0	493.0
65°	106.0	110.0	121.0	150.0	190.0	248.0	323.0	398.0	448.0	481.0	475.0
67.5°	98.0	101.0	112.0	138.0	175.0	230.0	302.0	376.0	421.0	457.0	454.0
70°	89.0	90.0	101.0	124.0	160.0	212.0	282.0	345.0	397.0	424.0	430.0
72.5°	78.0	78.0	89.0	109.0	142.0	188.0	255.0	310.0	359.0	382.0	391.0
75°	64.0	65.0	74.0	92.0	119.0	161.0	217.0	273.0	314.0	338.0	341.0
77.5°	50.0	51.0	58.0	73.0	96.0	130.0	179.0	223.0	262.0	283.0	277.0
80°	36.0	37.0	42.0	53.0	71.0	97.0	138.0	177.0	205.0	222.0	214.0
82.5°	22.0	23.0	26.0	33.0	45.0	63.0	94.0	123.0	145.0	159.0	156.0
85°	11.0	11.0	13.0	15.0	19.0	28.0	45.0	62.0	79.0	89.0	86.0
87.5°	2.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	5.0	2.0
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: P832849
 CATALOG NUMBER: TTN-D0-740-U-RW-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)