

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: P832975

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832975
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-SG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1308.9 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

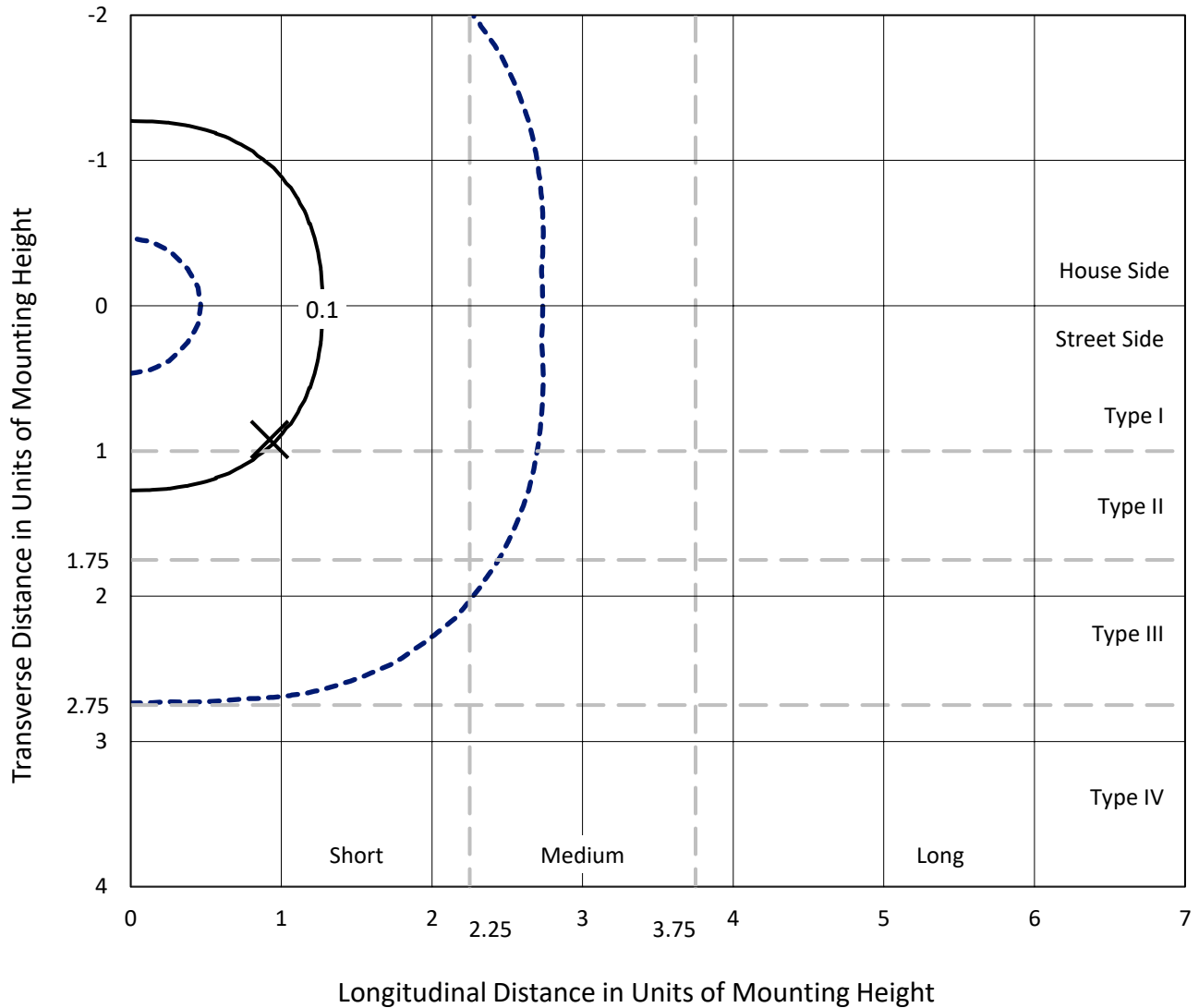
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

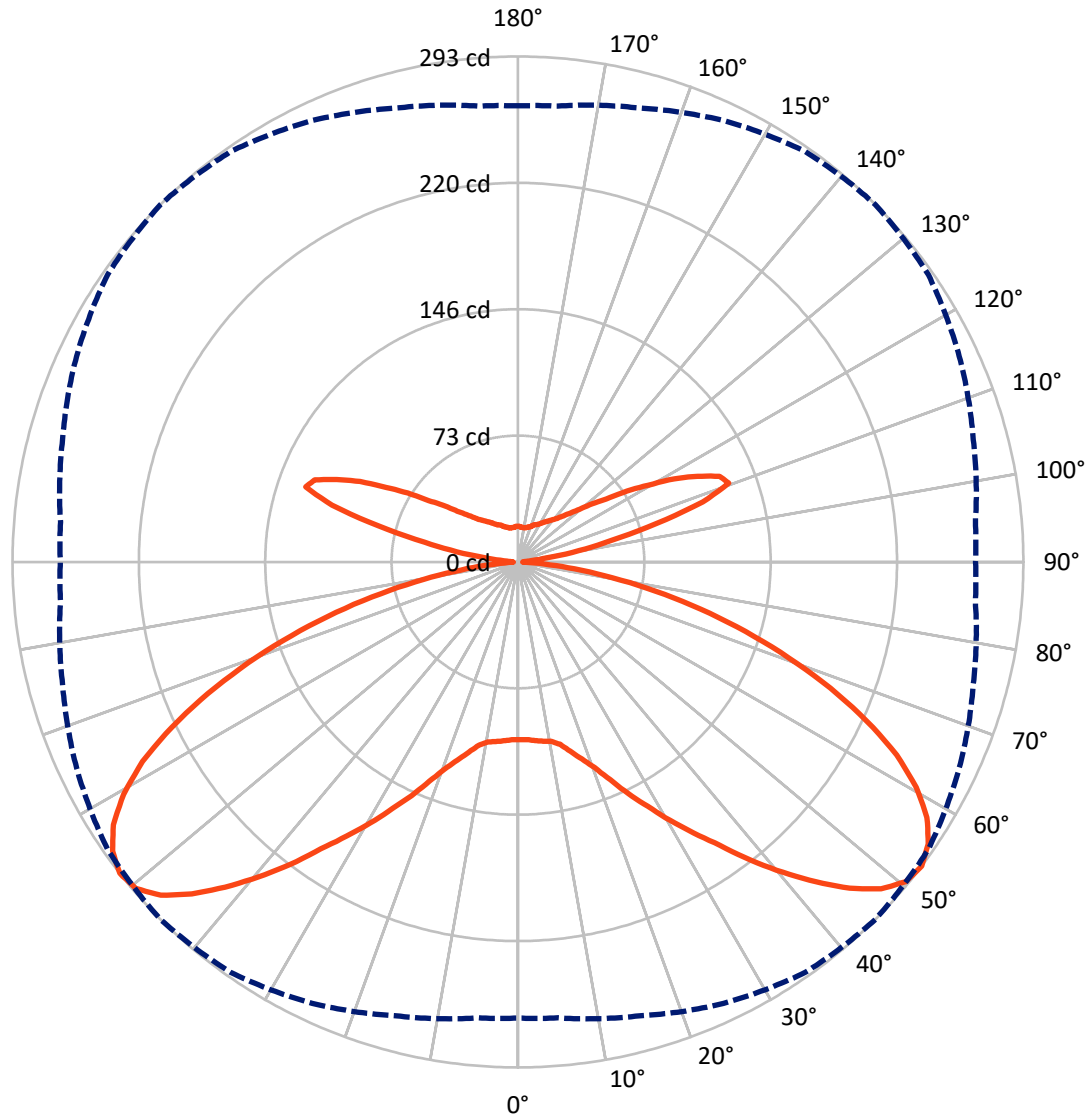
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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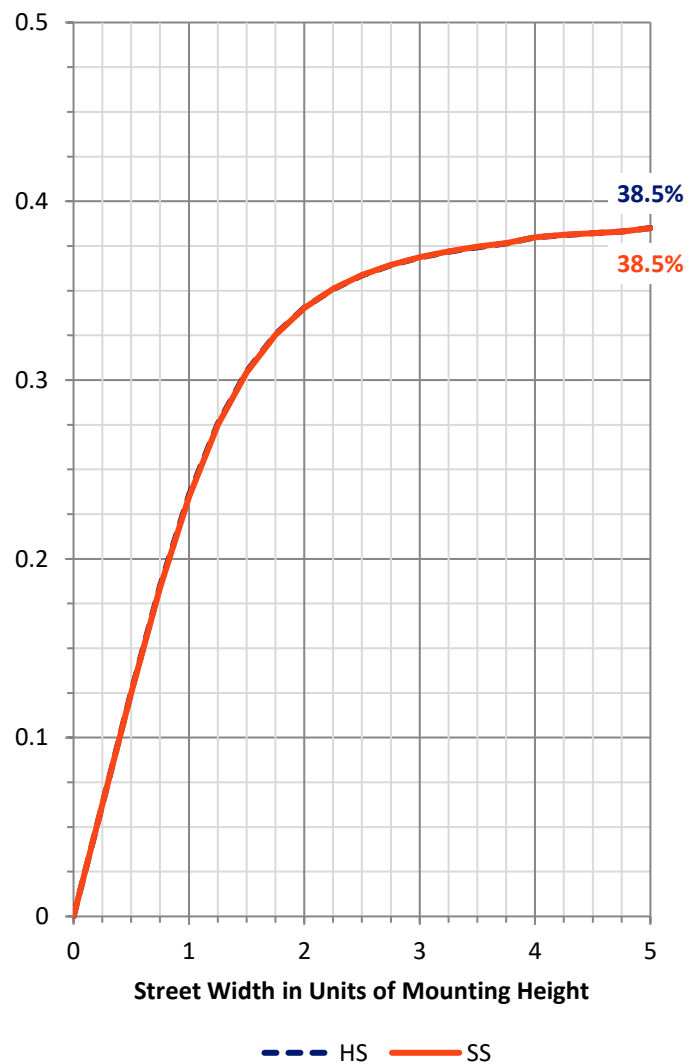
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.7	147.7	654.4
	% Fixture	38.7	11.3	50.0
Street Side	Lumens	506.7	147.7	654.4
	% Fixture	38.7	11.3	50.0
Total	Lumens	1013.4	295.5	1308.9
	% Fixture	77.4	22.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.8
10°-20°	32.7	2.5
20°-30°	69.0	5.3
30°-40°	126.0	9.6
40°-50°	200.6	15.3
50°-60°	242.6	18.5
60°-70°	204.0	15.6
70°-80°	108.1	8.3
80°-90°	20.4	1.6
90°-100°	6.6	0.5
100°-110°	67.0	5.1
110°-120°	98.0	7.5
120°-130°	56.9	4.3
130°-140°	30.1	2.3
140°-150°	17.9	1.4
150°-160°	11.0	0.8
160°-170°	6.0	0.5
170°-180°	2.0	0.1
0°-90°	1013.4	77.4
0°-180°	1308.9	100.0



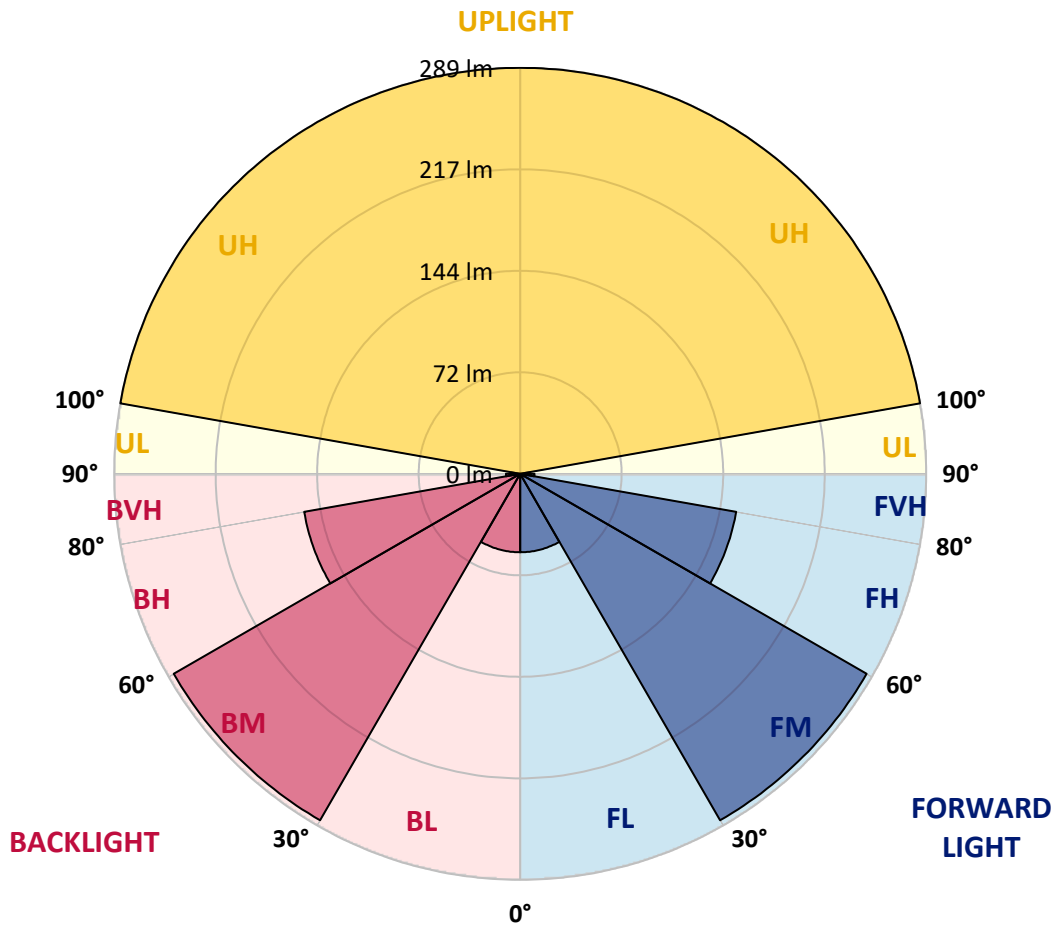
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	55.8	4.3			
FM (30°-60°)	284.6	21.7			
FH (60°-80°)	156.1	11.9			G0/660
FVH (80°-90°)	10.2	0.8			G1/100
BL (0°-30°)	55.8	4.3	B0/110		
BM (30°-60°)	284.6	21.7	B1/1000		
BH (60°-80°)	156.1	11.9	B1/500		G0/660
BVH (80°-90°)	10.2	0.8			G1/100
UL (90°-100°)	6.6	0.5		U1/10	
UH (100°-180°)	288.9	22.1		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°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
5°	103.9	103.9	103.0	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
7.5°	103.9	103.9	103.9	104.8	104.8	104.8	104.8	103.9	103.9	103.9	103.9
10°	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
12.5°	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4
15°	112.8	112.8	112.8	112.8	113.7	113.7	113.7	112.8	112.8	112.8	112.8
17.5°	118.2	118.2	119.1	119.1	120.0	120.0	120.0	119.1	118.2	119.1	118.2
20°	126.3	126.3	126.3	127.2	128.1	127.2	128.1	126.3	126.3	126.3	126.3
22.5°	135.2	135.2	135.2	136.1	137.0	137.0	137.0	135.2	135.2	135.2	135.2
25°	146.0	146.0	146.0	146.9	147.8	148.7	148.7	146.9	146.0	146.0	145.1
27.5°	156.7	156.7	158.5	159.4	160.3	160.3	160.3	158.5	157.6	157.6	157.6
30°	169.3	169.3	171.1	171.9	173.7	173.7	173.7	171.1	170.2	169.3	169.3
32.5°	180.9	181.8	183.6	185.4	187.2	187.2	188.1	184.5	182.7	181.8	181.8
35°	193.4	194.3	196.1	198.8	200.6	201.5	202.4	198.8	196.1	195.2	195.2
37.5°	207.8	208.7	211.4	214.0	217.6	219.4	220.3	214.9	210.5	208.7	208.7
40°	223.9	224.8	227.5	231.1	234.6	236.4	237.3	231.9	227.5	225.7	224.8
42.5°	237.3	239.1	241.8	247.2	250.8	253.4	253.4	247.2	241.8	239.1	239.1
45°	249.9	251.7	256.1	261.5	266.9	269.6	268.7	262.4	256.1	252.5	251.7
47.5°	259.7	261.5	266.9	273.1	280.3	283.0	282.1	274.9	266.9	262.4	261.5
50°	265.1	266.0	272.2	281.2	288.4	291.1	289.3	282.1	273.1	266.9	266.0
52.5°	264.2	265.1	272.2	282.1	290.2	292.8	290.2	282.1	273.1	266.0	265.1
55°	258.8	259.7	266.9	277.6	285.7	288.4	285.7	277.6	267.8	260.6	259.7
57.5°	249.0	249.9	257.0	267.8	276.7	279.4	275.8	266.9	257.0	249.9	249.9
60°	234.6	235.5	242.7	254.3	262.4	265.1	260.6	253.4	243.6	235.5	234.6
62.5°	215.8	215.8	223.9	235.5	242.7	246.3	241.8	233.7	224.8	215.8	216.7
65°	193.4	192.5	200.6	211.4	219.4	222.1	217.6	210.5	201.5	193.4	193.4
67.5°	170.2	170.2	176.4	185.4	192.5	195.2	190.8	184.5	177.3	170.2	170.2
70°	145.1	145.1	149.6	158.5	164.8	166.6	163.9	157.6	151.3	145.1	145.1
72.5°	120.0	119.1	123.6	130.8	136.1	137.9	135.2	131.6	124.5	120.0	120.0
75°	94.9	94.0	96.7	103.0	107.5	109.3	106.6	103.9	98.5	94.9	94.9
77.5°	70.7	69.9	72.5	77.9	80.6	81.5	79.7	77.9	73.4	70.7	70.7
80°	48.4	47.5	49.3	52.8	55.5	55.5	54.6	53.7	50.2	48.4	49.3
82.5°	28.7	27.8	29.6	32.2	34.0	33.1	33.1	32.2	29.6	28.7	28.7
85°	12.5	11.6	12.5	14.3	16.1	15.2	15.2	15.2	13.4	12.5	12.5
87.5°	1.8	1.8	1.8	2.7	3.6	2.7	2.7	2.7	1.8	1.8	1.8
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)