

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: P832816

Luminaire Tested: **TTN-D0-735-U-RW-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832816
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-RW-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U3 - G1

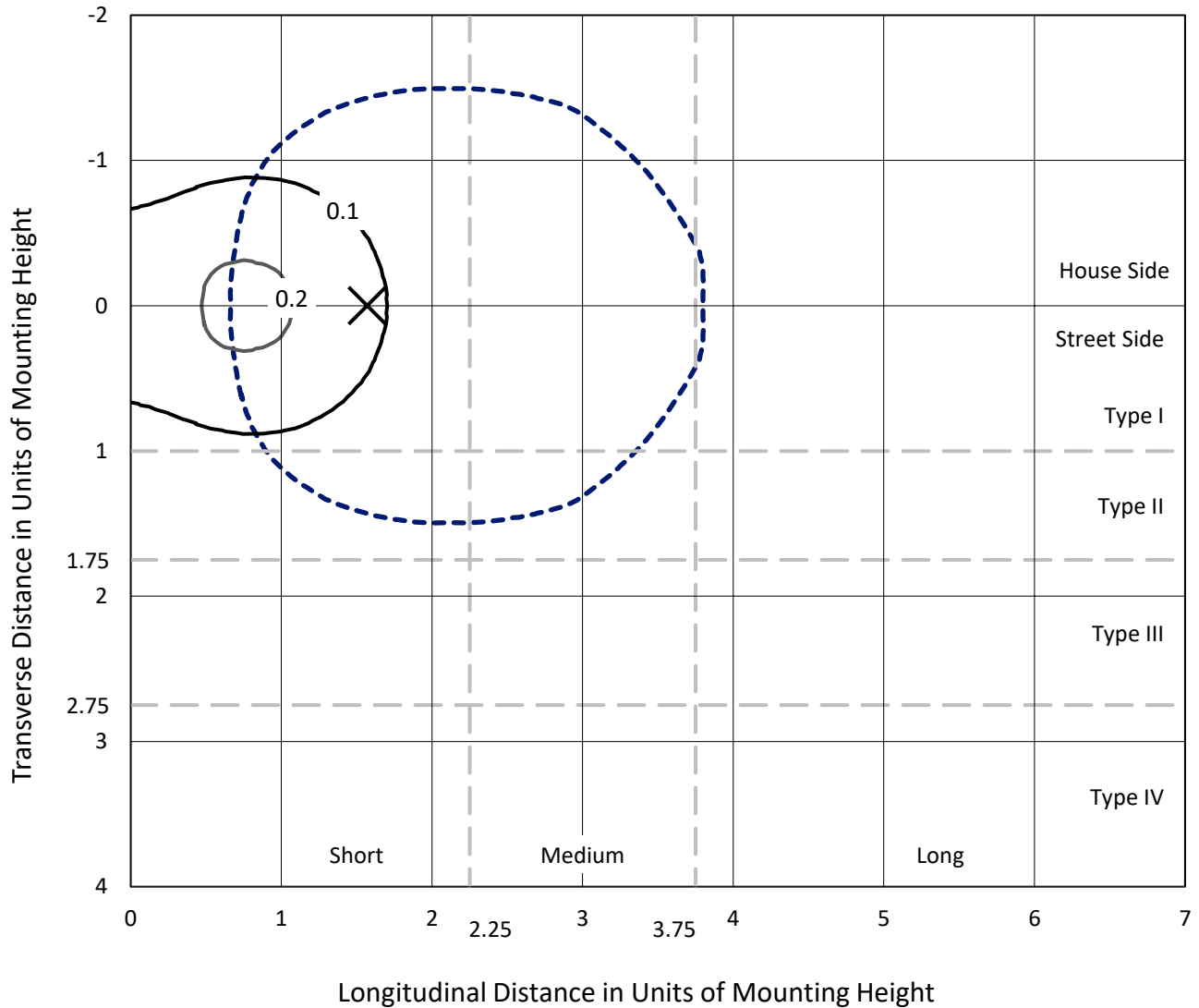
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

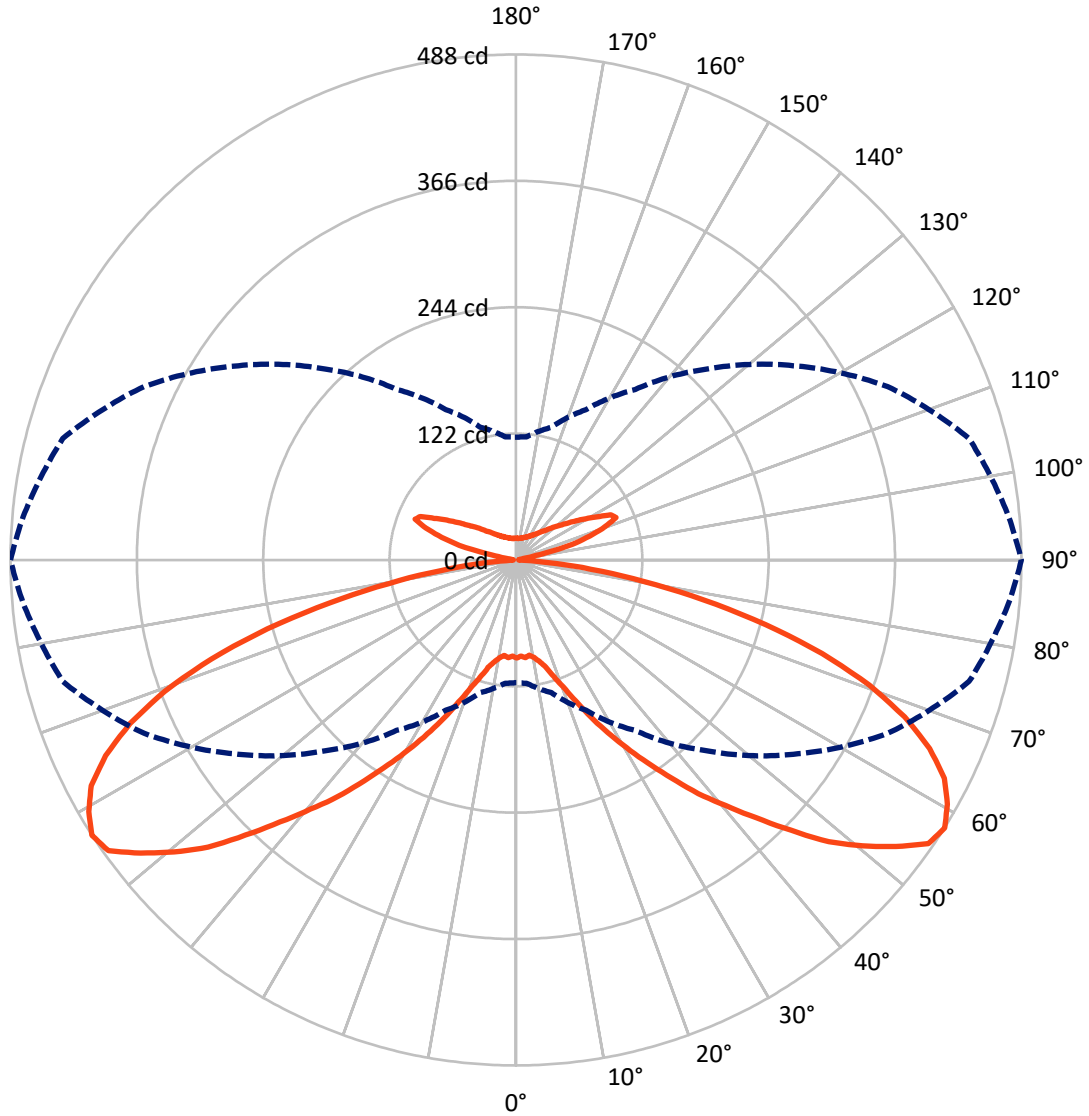
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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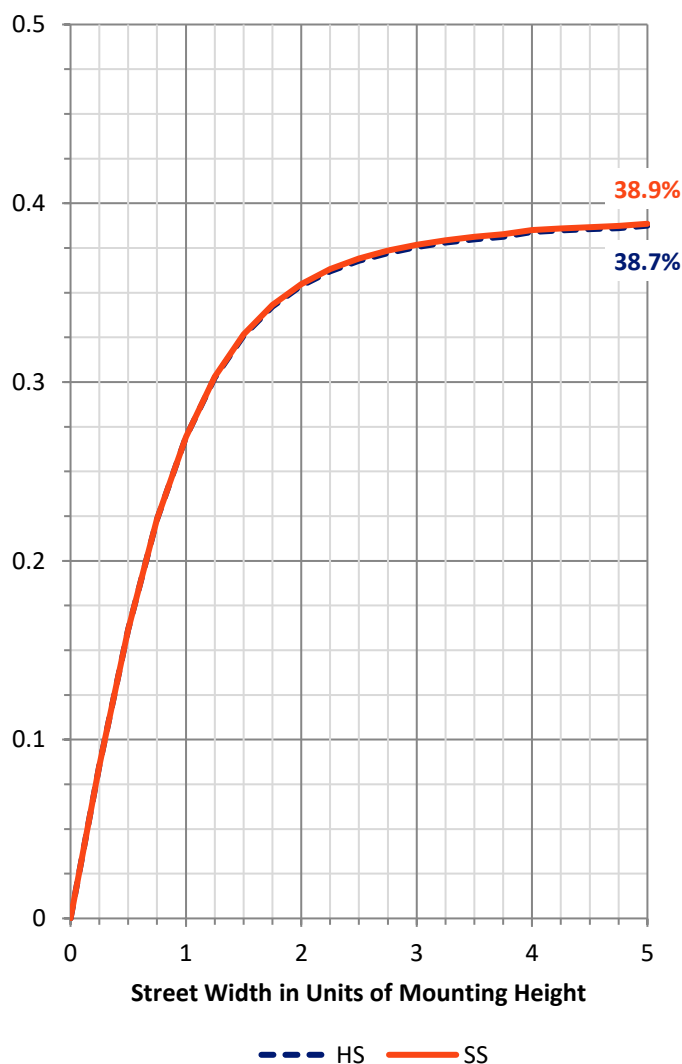
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.7	150.2	676.9
	% Fixture	38.9	11.1	50.0
Street Side	Lumens	526.7	150.2	676.9
	% Fixture	38.9	11.1	50.0
Total	Lumens	1053.4	300.5	1353.9
	% Fixture	77.8	22.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.7
10°-20°	29.1	2.1
20°-30°	61.9	4.6
30°-40°	114.1	8.4
40°-50°	183.8	13.6
50°-60°	248.7	18.4
60°-70°	241.8	17.9
70°-80°	140.7	10.4
80°-90°	24.2	1.8
90°-100°	6.7	0.5
100°-110°	68.2	5.0
110°-120°	99.6	7.4
120°-130°	57.8	4.3
130°-140°	30.6	2.3
140°-150°	18.2	1.3
150°-160°	11.2	0.8
160°-170°	6.1	0.5
170°-180°	2.0	0.1
0°-90°	1053.4	77.8
0°-180°	1353.9	100.0

Coefficient of Utilization

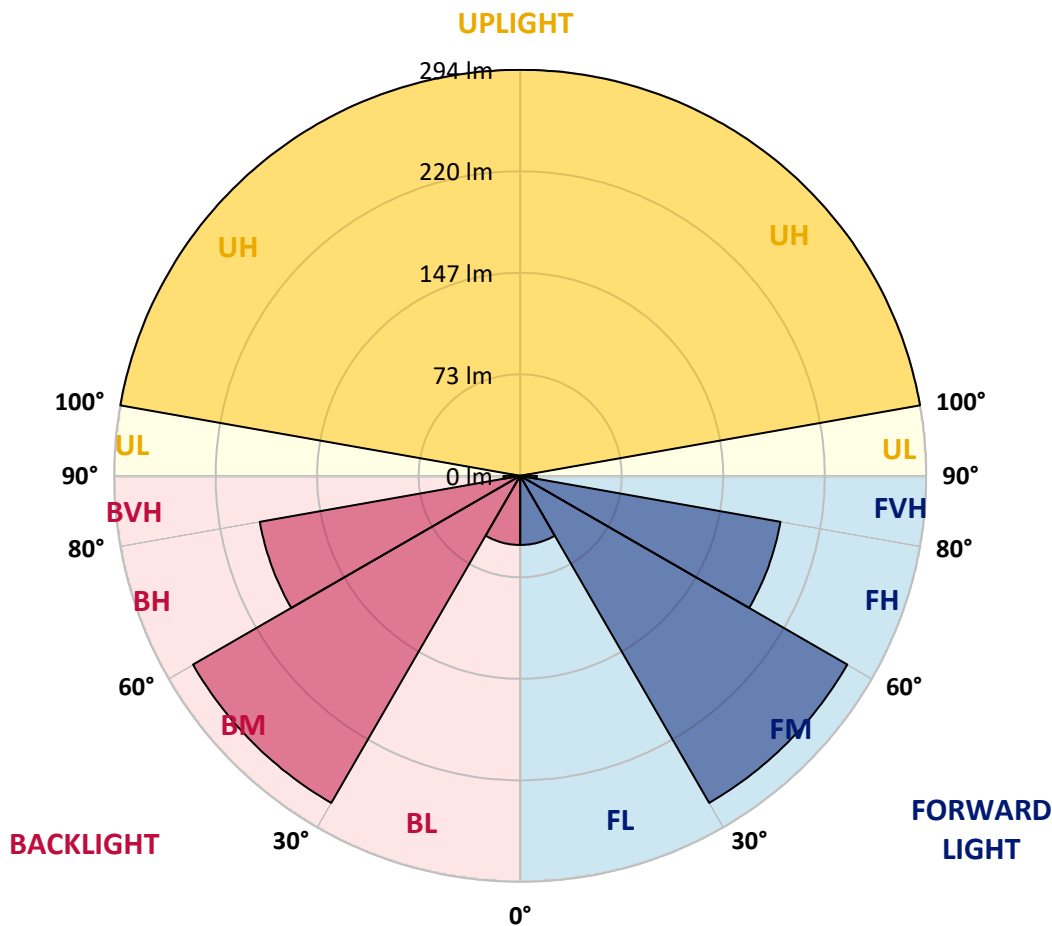


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.0	3.7			
FM (30°-60°)	273.3	20.2			
FH (60°-80°)	191.3	14.1			G0/660
FVH (80°-90°)	12.1	0.9			G1/100
BL (0°-30°)	50.0	3.7	B0/110		
BM (30°-60°)	273.3	20.2	B1/1000		
BH (60°-80°)	191.3	14.1	B1/500		G1/500
BVH (80°-90°)	12.1	0.9			G1/100
UL (90°-100°)	6.7	0.5		U1/10	
UH (100°-180°)	293.8	21.7		U3/500	

BUG Rating: B1-U3-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2.5°	94.7	94.7	94.7	94.7	93.8	93.8	93.8	92.8	92.8	92.8	92.8
5°	94.7	94.7	94.7	95.7	95.7	95.7	94.7	94.7	94.7	94.7	94.7
7.5°	94.7	95.7	95.7	94.7	94.7	93.8	93.8	93.8	92.8	92.8	92.8
10°	94.7	94.7	94.7	94.7	93.8	93.8	94.7	94.7	95.7	95.7	95.7
12.5°	93.8	93.8	94.7	94.7	94.7	95.7	97.6	98.5	99.5	100.4	100.4
15°	94.7	94.7	95.7	96.6	97.6	99.5	102.3	105.2	107.1	108.0	107.1
17.5°	94.7	95.7	96.6	98.5	101.4	104.2	109.0	112.7	116.5	117.5	118.4
20°	96.6	96.6	97.6	101.4	106.1	110.8	117.5	124.1	128.9	130.7	130.7
22.5°	97.6	98.5	99.5	104.2	111.8	119.4	128.9	136.4	143.1	146.9	147.8
25°	100.4	100.4	102.3	109.0	118.4	129.8	142.1	153.5	162.0	166.7	167.7
27.5°	102.3	103.3	106.1	114.6	127.0	141.2	158.2	171.5	181.9	187.6	188.5
30°	104.2	105.2	110.8	120.3	135.5	152.5	172.4	189.5	202.7	209.4	210.3
32.5°	107.1	108.0	114.6	125.1	143.1	163.9	186.6	207.5	226.4	232.1	233.1
35°	109.9	110.8	118.4	130.7	151.6	175.3	201.8	226.4	249.2	256.8	258.6
37.5°	112.7	113.7	121.3	136.4	160.1	187.6	218.9	248.2	272.9	283.3	286.1
40°	115.6	116.5	125.1	142.1	168.6	200.9	236.9	269.1	297.5	309.8	311.7
42.5°	117.5	118.4	127.9	146.9	177.2	213.2	255.8	291.8	322.1	338.2	340.1
45°	120.3	121.3	131.7	153.5	184.7	227.4	273.8	317.4	352.4	370.4	372.3
47.5°	122.2	123.2	134.5	157.3	193.3	240.6	292.8	340.1	381.8	400.8	406.4
50°	123.2	124.1	136.4	161.1	199.0	250.1	307.9	362.9	407.4	431.1	433.9
52.5°	123.2	125.1	137.4	163.9	202.7	258.6	320.2	381.8	432.0	458.6	459.5
55°	122.2	123.2	136.4	163.0	204.6	262.4	328.8	393.2	449.1	474.7	483.2
57.5°	118.4	119.4	132.6	160.1	200.9	260.5	326.9	396.0	452.9	477.5	487.9
60°	112.7	114.6	127.0	153.5	195.2	253.9	321.2	390.3	447.2	477.5	478.5
62.5°	106.1	107.1	119.4	145.0	186.6	243.5	310.8	379.0	433.9	465.2	464.2
65°	96.6	97.6	108.0	134.5	171.5	223.6	289.9	361.0	408.3	441.5	438.7
67.5°	86.2	87.2	96.6	120.3	153.5	201.8	261.5	330.7	372.3	406.4	404.6
70°	74.8	74.8	83.4	103.3	134.5	177.2	230.2	290.9	332.5	361.0	361.9
72.5°	61.6	61.6	69.2	86.2	112.7	148.7	194.2	248.2	282.3	307.0	308.9
75°	48.3	47.4	54.0	68.2	89.1	118.4	153.5	199.9	226.4	250.1	249.2
77.5°	34.1	34.1	37.9	49.3	64.4	88.1	113.7	150.6	168.6	188.5	184.7
80°	21.8	21.8	23.7	32.2	42.6	58.7	74.8	102.3	114.6	129.8	125.1
82.5°	11.4	10.4	12.3	17.1	22.7	32.2	41.7	59.7	65.4	76.7	73.0
85°	3.8	3.8	3.8	5.7	8.5	12.3	16.1	25.6	26.5	34.1	31.3
87.5°	0.9	0.0	0.0	0.9	0.9	0.9	0.9	2.8	2.8	5.7	3.8
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)