

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: P832825

Luminaire Tested: **TTN-D0-735-U-WQ-SG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832825
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-WQ-SG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1372.9 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

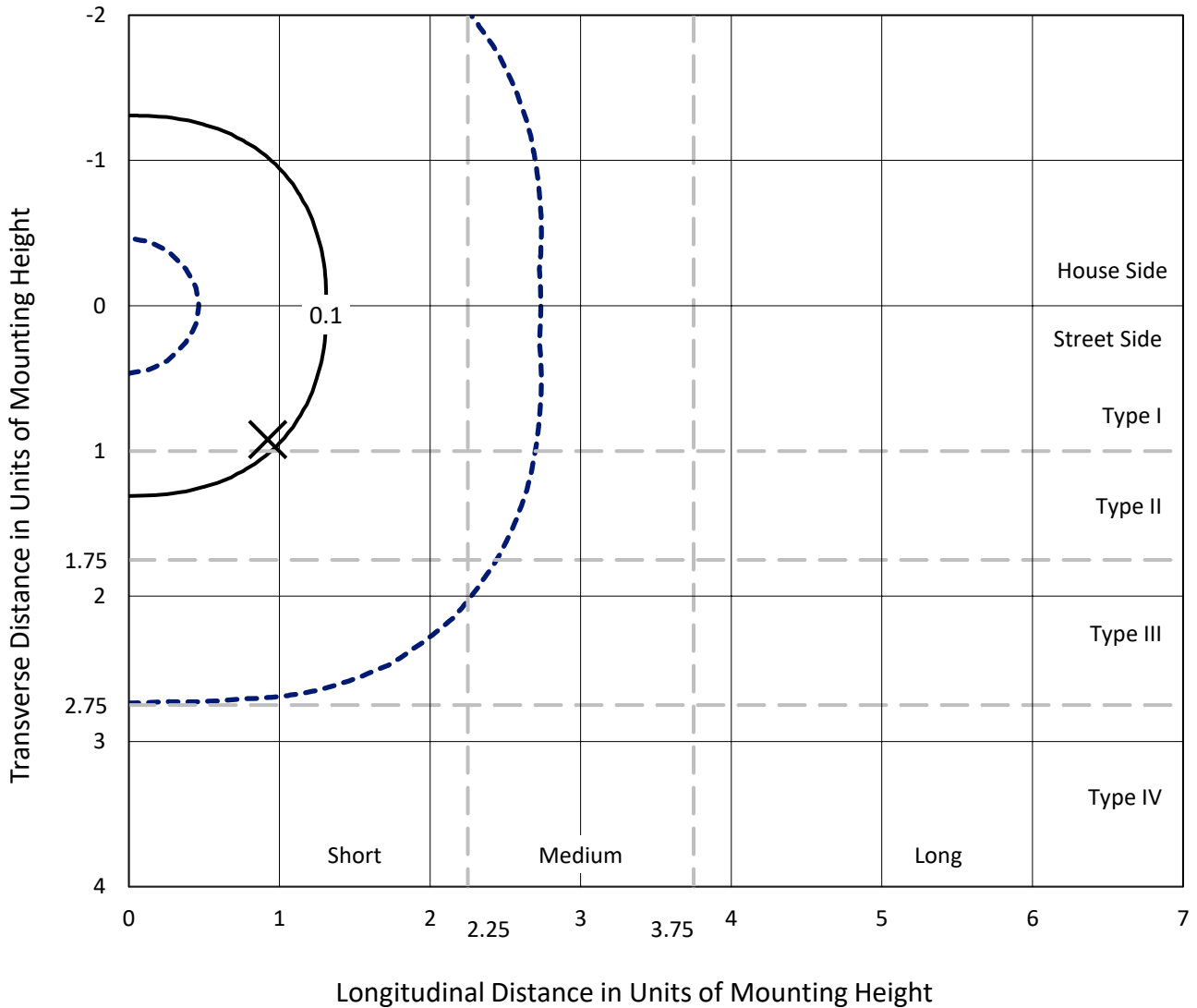
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

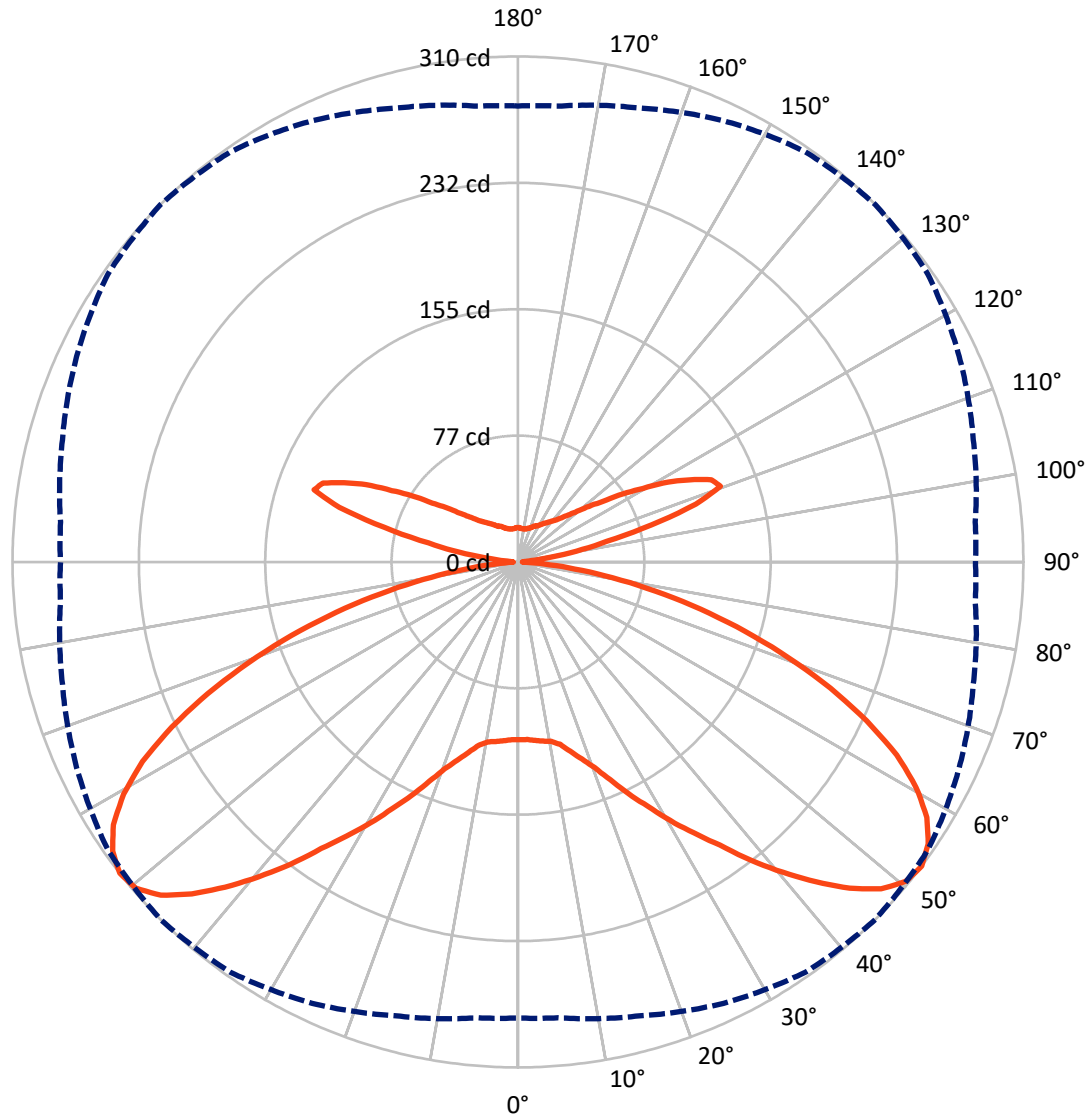
× Max cd
 - - - 1/2 Max cd



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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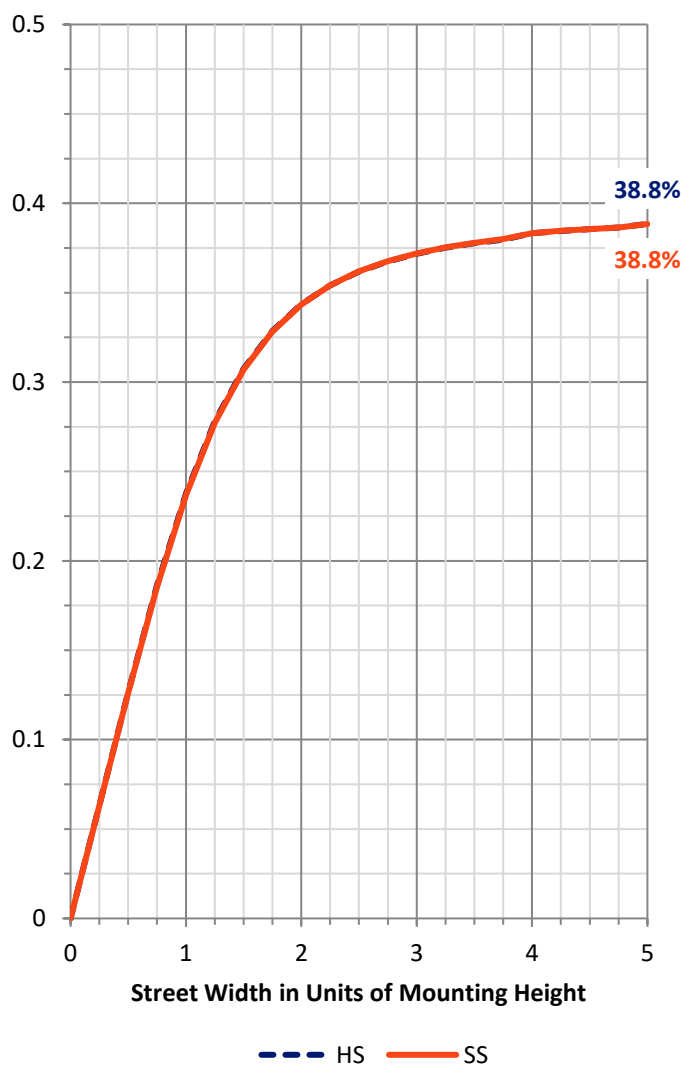
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.2	150.2	686.4
	% Fixture	39.1	10.9	50.0
Street Side	Lumens	536.2	150.2	686.4
	% Fixture	39.1	10.9	50.0
Total	Lumens	1072.4	300.5	1372.9
	% Fixture	78.1	21.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.8
10°-20°	34.6	2.5
20°-30°	73.0	5.3
30°-40°	133.4	9.7
40°-50°	212.3	15.5
50°-60°	256.7	18.7
60°-70°	215.9	15.7
70°-80°	114.4	8.3
80°-90°	21.6	1.6
90°-100°	6.7	0.5
100°-110°	68.2	5.0
110°-120°	99.6	7.3
120°-130°	57.8	4.2
130°-140°	30.6	2.2
140°-150°	18.2	1.3
150°-160°	11.2	0.8
160°-170°	6.1	0.4
170°-180°	2.0	0.1
0°-90°	1072.4	78.1
0°-180°	1372.9	100.0

Coefficient of Utilization



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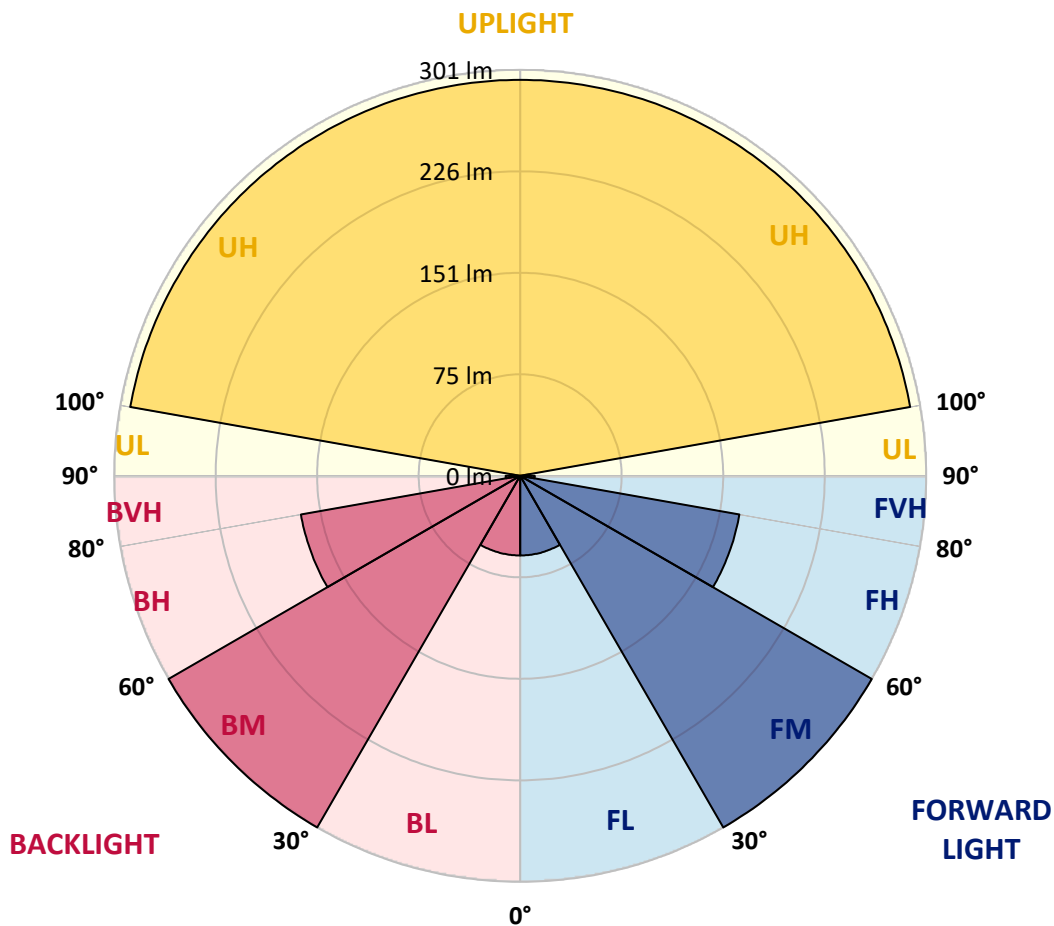
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	59.1	4.3			
FM (30°-60°)	301.2	21.9			
FH (60°-80°)	165.1	12.0			G0/660
FVH (80°-90°)	10.8	0.8			G1/100
BL (0°-30°)	59.1	4.3	B0/110		
BM (30°-60°)	301.2	21.9	B1/1000		
BH (60°-80°)	165.1	12.0	B1/500		G0/660
BVH (80°-90°)	10.8	0.8			G1/100
UL (90°-100°)	6.7	0.5		U1/10	
UH (100°-180°)	293.8	21.4		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°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
2.5°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
5°	109.9	109.9	109.0	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9
7.5°	109.9	109.9	109.9	110.9	110.9	110.9	110.9	109.9	109.9	109.9	109.9
10°	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8
12.5°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
15°	119.4	119.4	119.4	119.4	120.4	120.4	120.4	119.4	119.4	119.4	119.4
17.5°	125.1	125.1	126.0	126.0	127.0	127.0	127.0	126.0	125.1	126.0	125.1
20°	133.6	133.6	133.6	134.6	135.5	134.6	135.5	133.6	133.6	133.6	133.6
22.5°	143.1	143.1	143.1	144.1	145.0	145.0	145.0	143.1	143.1	143.1	143.1
25°	154.5	154.5	154.5	155.4	156.4	157.3	157.3	155.4	154.5	154.5	153.5
27.5°	165.9	165.9	167.7	168.7	169.6	169.6	169.6	167.7	166.8	166.8	166.8
30°	179.1	179.1	181.0	182.0	183.9	183.9	183.9	181.0	180.1	179.1	179.1
32.5°	191.4	192.4	194.3	196.2	198.1	198.1	199.0	195.2	193.3	192.4	192.4
35°	204.7	205.7	207.5	210.4	212.3	213.2	214.2	210.4	207.5	206.6	206.6
37.5°	219.9	220.8	223.7	226.5	230.3	232.2	233.1	227.5	222.7	220.8	220.8
40°	236.9	237.9	240.7	244.5	248.3	250.2	251.1	245.5	240.7	238.8	237.9
42.5°	251.1	253.0	255.9	261.6	265.4	268.2	268.2	261.6	255.9	253.0	253.0
45°	264.4	266.3	271.0	276.7	282.4	285.3	284.3	277.7	271.0	267.3	266.3
47.5°	274.8	276.7	282.4	289.1	296.6	299.5	298.5	290.9	282.4	277.7	276.7
50°	280.5	281.5	288.1	297.6	305.2	308.0	306.1	298.5	289.1	282.4	281.5
52.5°	279.6	280.5	288.1	298.5	307.1	309.9	307.1	298.5	289.1	281.5	280.5
55°	273.9	274.8	282.4	293.8	302.3	305.2	302.3	293.8	283.4	275.8	274.8
57.5°	263.5	264.4	272.0	283.4	292.8	295.7	291.9	282.4	272.0	264.4	264.4
60°	248.3	249.2	256.8	269.2	277.7	280.5	275.8	268.2	257.8	249.2	248.3
62.5°	228.4	228.4	236.9	249.2	256.8	260.6	255.9	247.4	237.9	228.4	229.3
65°	204.7	203.8	212.3	223.7	232.2	235.0	230.3	222.7	213.2	204.7	204.7
67.5°	180.1	180.1	186.7	196.2	203.8	206.6	201.9	195.2	187.6	180.1	180.1
70°	153.5	153.5	158.3	167.7	174.4	176.3	173.4	166.8	160.2	153.5	153.5
72.5°	127.0	126.0	130.8	138.4	144.1	145.9	143.1	139.3	131.7	127.0	127.0
75°	100.5	99.5	102.4	109.0	113.7	115.6	112.8	109.9	104.2	100.5	100.5
77.5°	74.9	73.9	76.8	82.5	85.3	86.2	84.3	82.5	77.7	74.9	74.9
80°	51.2	50.2	52.1	55.9	58.8	58.8	57.8	56.9	53.1	51.2	52.1
82.5°	30.3	29.4	31.3	34.1	36.0	35.1	35.1	34.1	31.3	30.3	30.3
85°	13.3	12.3	13.3	15.2	17.1	16.1	16.1	16.1	14.2	13.3	13.3
87.5°	1.9	1.9	1.9	2.8	3.8	2.8	2.8	2.8	1.9	1.9	1.9
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)