

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: P833182

Luminaire Tested: **TTN-D1-735-U-WQ-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833182
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-D1-735-U-WQ-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3326.9 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U3 - G1

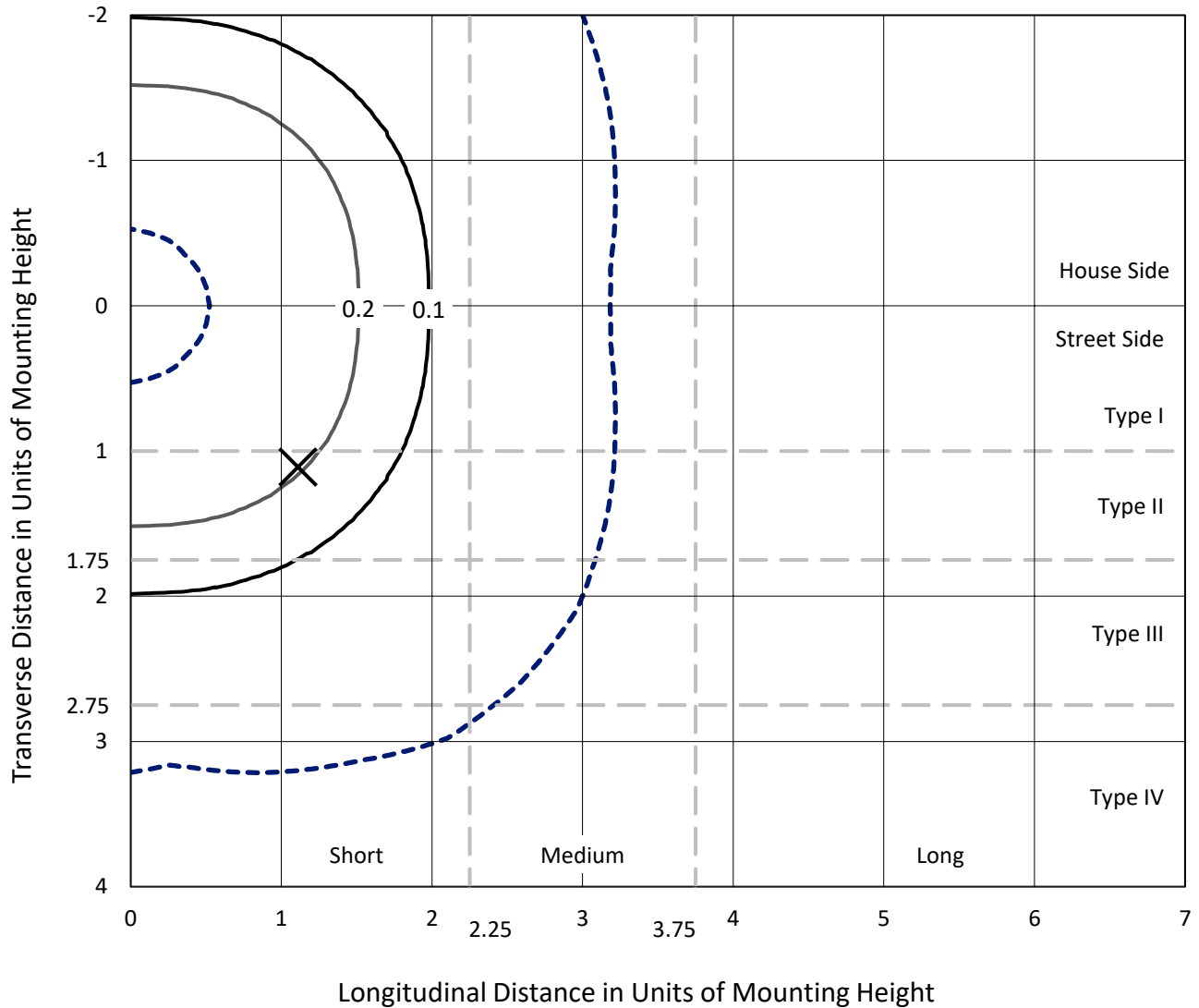
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

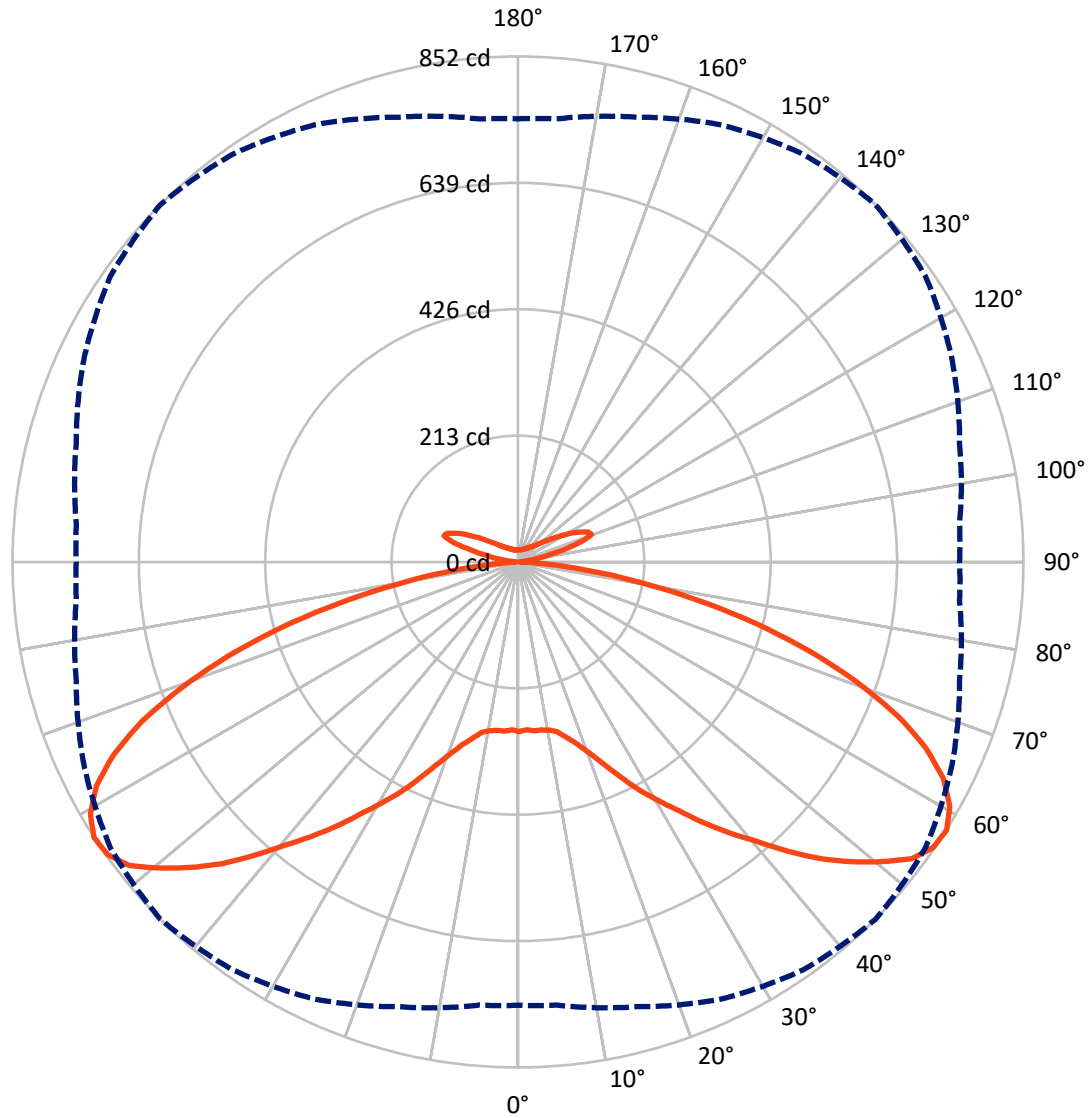
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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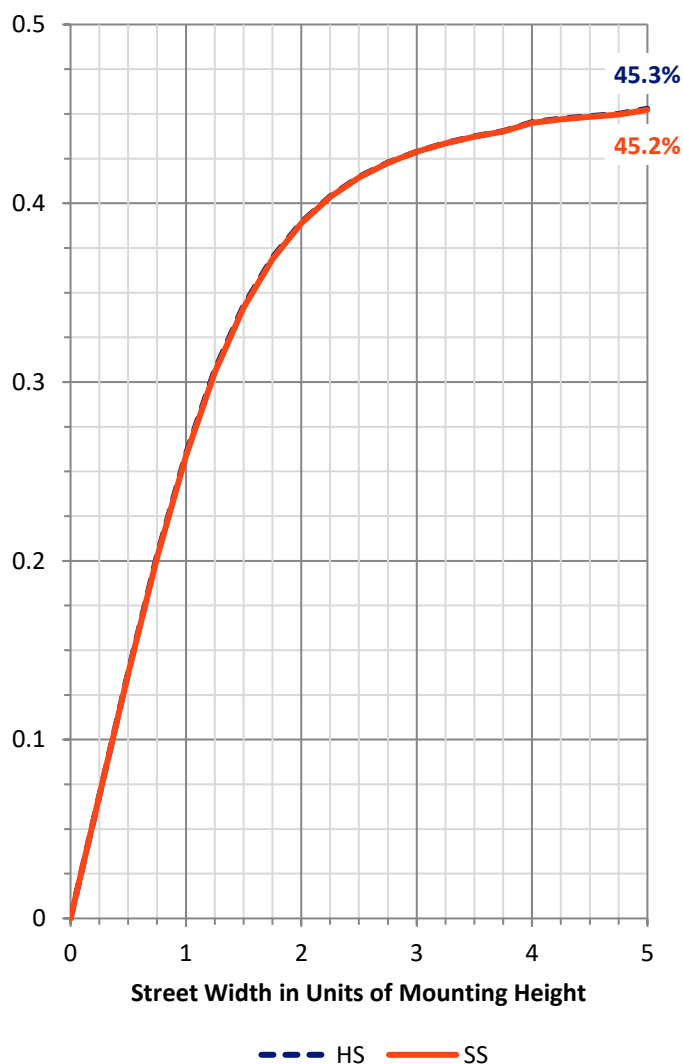
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1513.2	150.2	1663.4
	% Fixture	45.5	4.5	50.0
Street Side	Lumens	1513.2	150.2	1663.4
	% Fixture	45.5	4.5	50.0
Total	Lumens	3026.4	300.5	3326.9
	% Fixture	91.0	9.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	0.8
10°-20°	88.1	2.6
20°-30°	185.4	5.6
30°-40°	334.3	10.0
40°-50°	531.4	16.0
50°-60°	709.0	21.3
60°-70°	685.0	20.6
70°-80°	397.0	11.9
80°-90°	68.8	2.1
90°-100°	6.7	0.2
100°-110°	68.2	2.0
110°-120°	99.6	3.0
120°-130°	57.8	1.7
130°-140°	30.6	0.9
140°-150°	18.2	0.5
150°-160°	11.2	0.3
160°-170°	6.1	0.2
170°-180°	2.0	0.1
0°-90°	3026.4	91.0
0°-180°	3326.9	100.0

Coefficient of Utilization

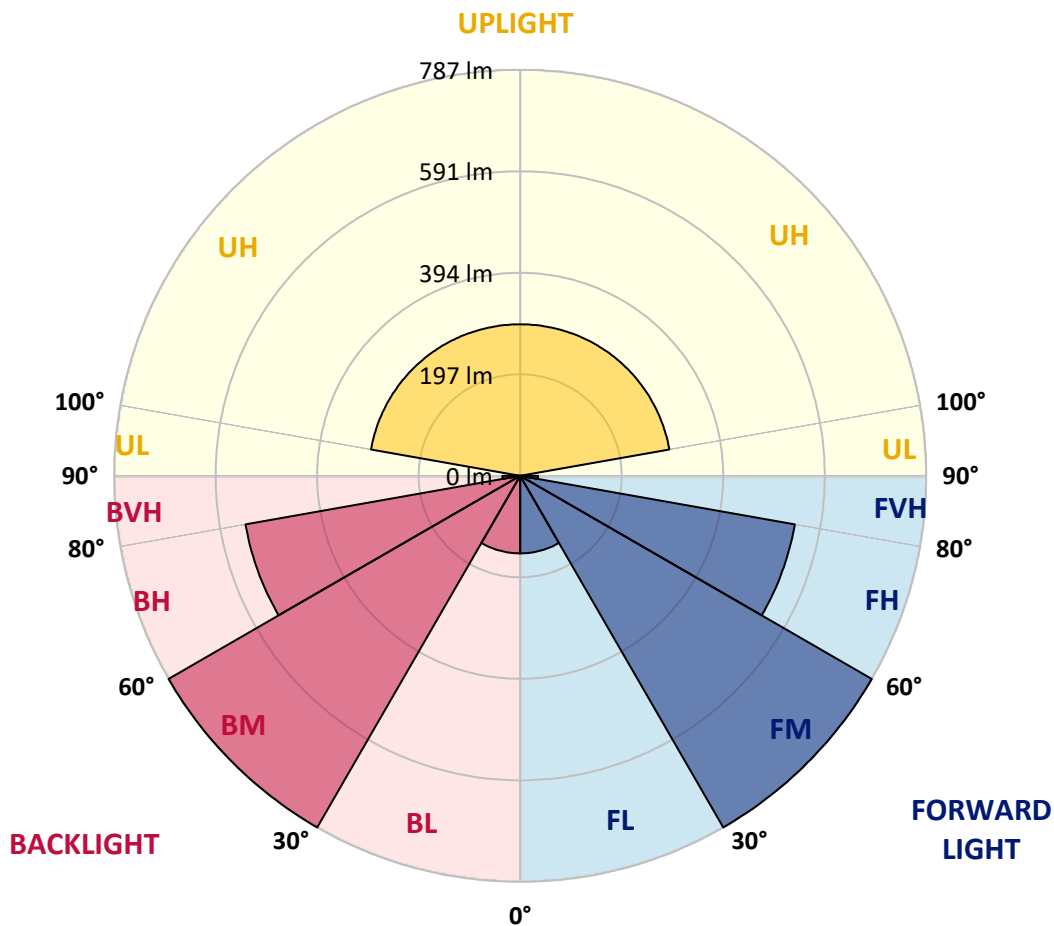


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	150.4	4.5			
FM (30°-60°)	787.4	23.7			
FH (60°-80°)	541.0	16.3			G0/660
FVH (80°-90°)	34.4	1.0			G1/100
BL (0°-30°)	150.4	4.5	B1/500		
BM (30°-60°)	787.4	23.7	B1/1000		
BH (60°-80°)	541.0	16.3	B2/1000		G0/660
BVH (80°-90°)	34.4	1.0			G1/100
UL (90°-100°)	6.7	0.2		U1/10	
UH (100°-180°)	293.8	8.8		U3/500	

BUG Rating: B2-U3-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9
2.5°	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2	283.2
5°	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9	285.9
7.5°	283.2	283.2	285.9	285.9	285.9	285.9	285.9	285.9	285.9	283.2	283.2
10°	285.9	285.9	285.9	288.5	288.5	288.5	288.5	288.5	285.9	285.9	285.9
12.5°	291.1	291.1	293.7	293.7	293.7	293.7	293.7	293.7	293.7	291.1	291.1
15°	304.2	304.2	304.2	306.8	306.8	306.8	306.8	306.8	304.2	304.2	304.2
17.5°	317.3	317.3	320.0	320.0	322.6	322.6	322.6	320.0	320.0	320.0	320.0
20°	335.7	335.7	338.3	338.3	340.9	343.6	343.6	340.9	338.3	338.3	338.3
22.5°	359.3	361.9	361.9	361.9	364.5	369.8	367.2	364.5	361.9	361.9	361.9
25°	388.1	390.8	393.4	393.4	396.0	401.3	401.3	393.4	393.4	393.4	393.4
27.5°	422.2	424.9	427.5	427.5	430.1	435.3	432.7	427.5	427.5	424.9	424.9
30°	453.7	456.3	458.9	461.6	464.2	466.8	466.8	461.6	458.9	456.3	453.7
32.5°	485.2	485.2	490.4	495.7	500.9	500.9	503.5	495.7	490.4	485.2	482.5
35°	516.6	519.3	521.9	529.8	537.6	540.2	537.6	529.8	521.9	516.6	516.6
37.5°	550.7	553.4	556.0	566.5	574.3	579.6	574.3	566.5	556.0	550.7	548.1
40°	587.5	590.1	592.7	605.8	613.7	618.9	611.1	603.2	592.7	587.5	584.8
42.5°	621.5	626.8	632.0	647.8	660.9	666.1	658.3	645.1	634.7	621.5	618.9
45°	663.5	668.8	676.6	692.4	705.5	713.3	702.8	689.7	674.0	663.5	660.9
47.5°	697.6	702.8	710.7	731.7	750.0	755.3	744.8	729.1	708.1	695.0	692.4
50°	723.8	729.1	744.8	768.4	789.4	794.6	784.1	763.2	739.6	721.2	718.6
52.5°	744.8	750.0	768.4	799.9	823.5	831.3	818.2	794.6	763.2	742.2	739.6
55°	755.3	757.9	781.5	815.6	839.2	849.7	836.6	810.4	776.3	752.7	750.0
57.5°	747.4	750.0	776.3	813.0	839.2	852.3	839.2	807.7	771.0	747.4	744.8
60°	731.7	731.7	755.3	797.3	828.7	836.6	823.5	792.0	752.7	729.1	726.4
62.5°	702.8	700.2	729.1	765.8	797.3	805.1	794.6	763.2	723.8	700.2	697.6
65°	647.8	642.5	684.5	718.6	747.4	755.3	747.4	718.6	681.9	645.1	639.9
67.5°	582.2	574.3	613.7	653.0	679.2	689.7	679.2	655.6	613.7	577.0	574.3
70°	514.0	506.2	537.6	571.7	600.6	605.8	595.3	571.7	532.4	508.8	508.8
72.5°	432.7	424.9	453.7	479.9	508.8	514.0	503.5	482.5	453.7	430.1	427.5
75°	343.6	335.7	361.9	382.9	411.7	414.4	409.1	385.5	361.9	338.3	338.3
77.5°	254.4	246.5	267.5	285.9	309.5	309.5	306.8	288.5	267.5	251.8	251.8
80°	167.8	162.6	181.0	188.8	209.8	209.8	207.2	194.1	178.3	167.8	165.2
82.5°	94.4	89.2	104.9	107.5	123.3	123.3	120.6	110.1	99.7	91.8	91.8
85°	36.7	31.5	42.0	44.6	52.5	52.5	49.8	47.2	39.3	34.1	34.1
87.5°	2.6	2.6	5.2	5.2	7.9	7.9	7.9	5.2	5.2	2.6	2.6
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)