

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: P832801

Luminaire Tested: **TTN-D0-735-U-CQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832801
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-CQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1458.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G0

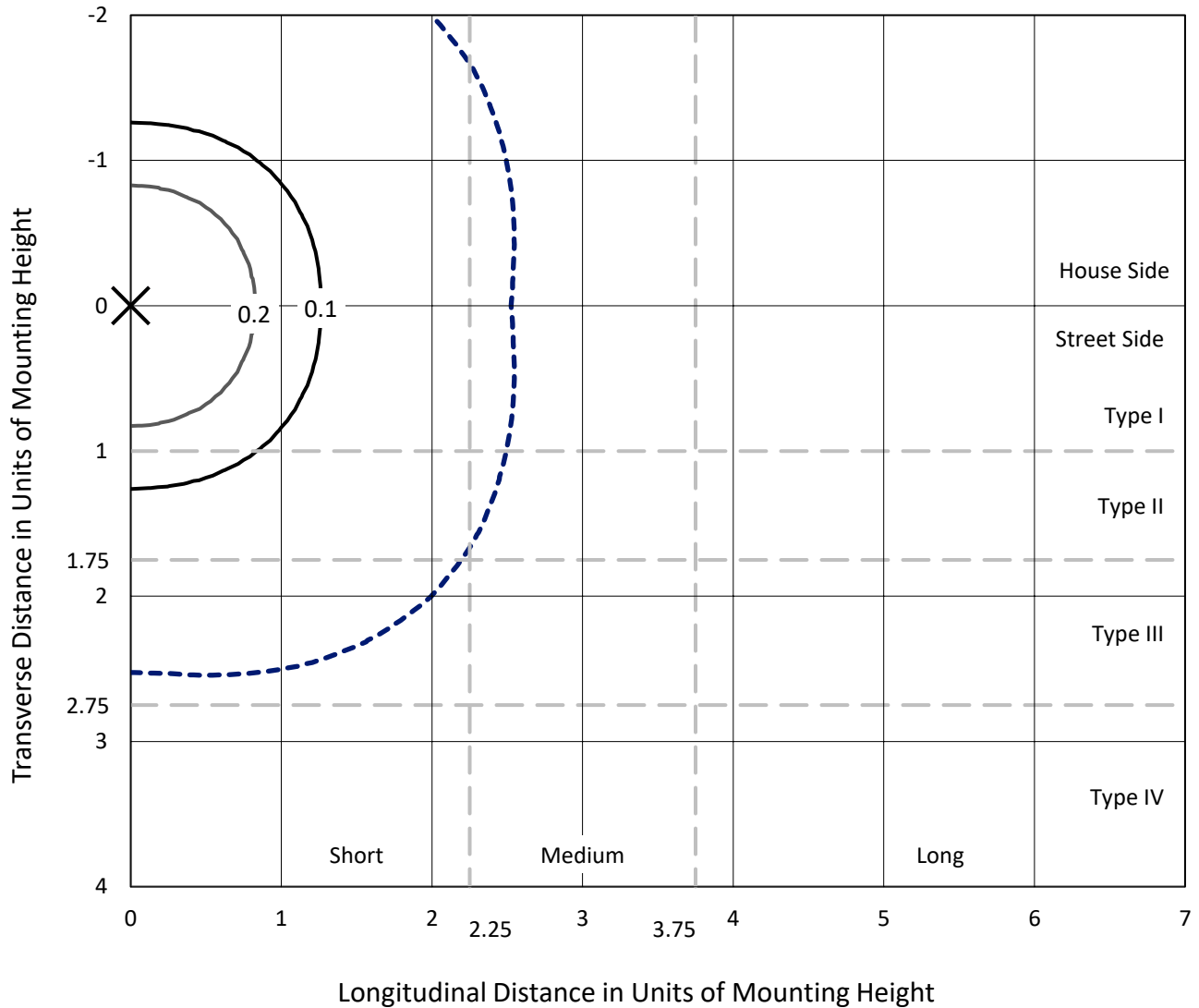
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

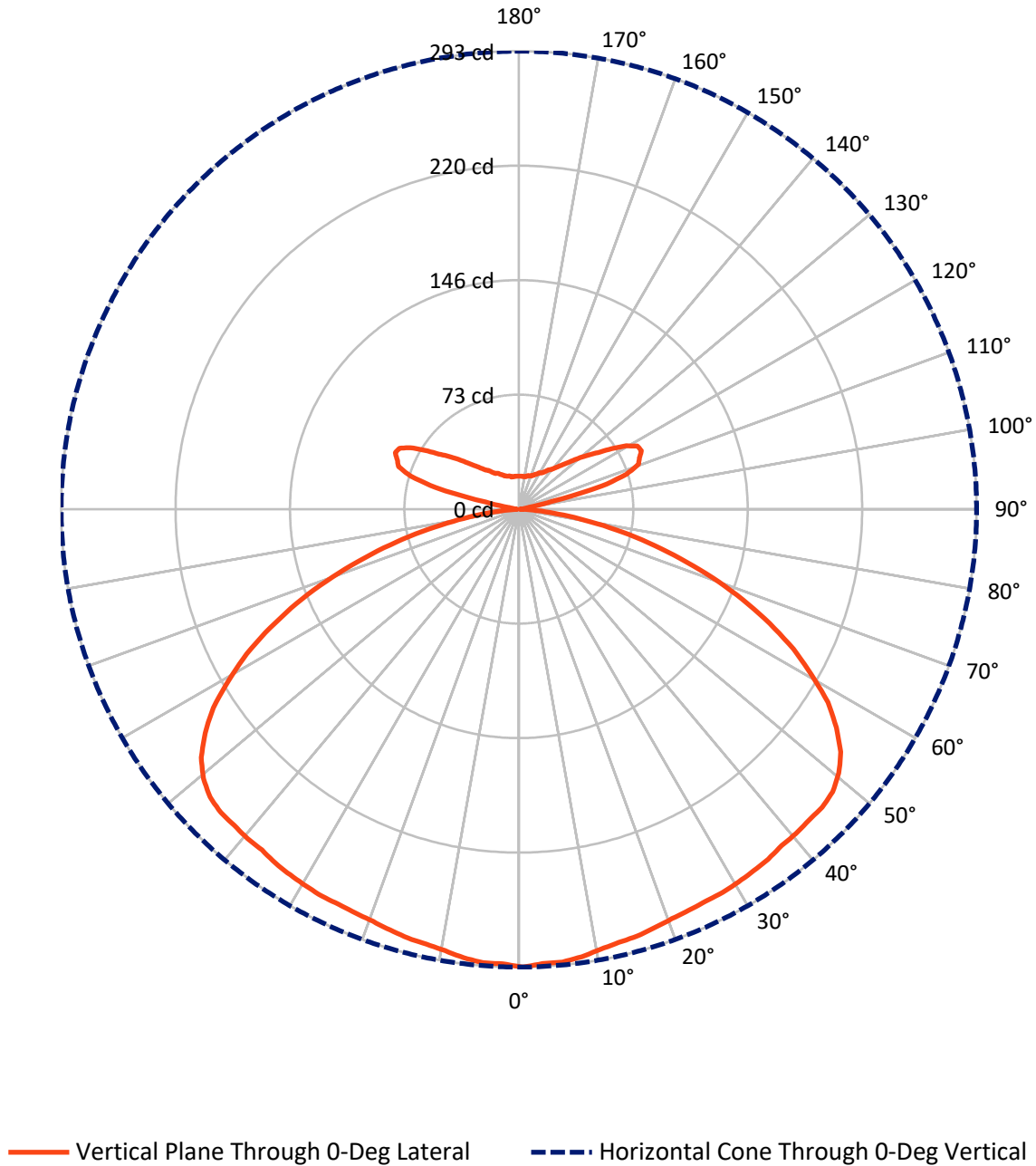
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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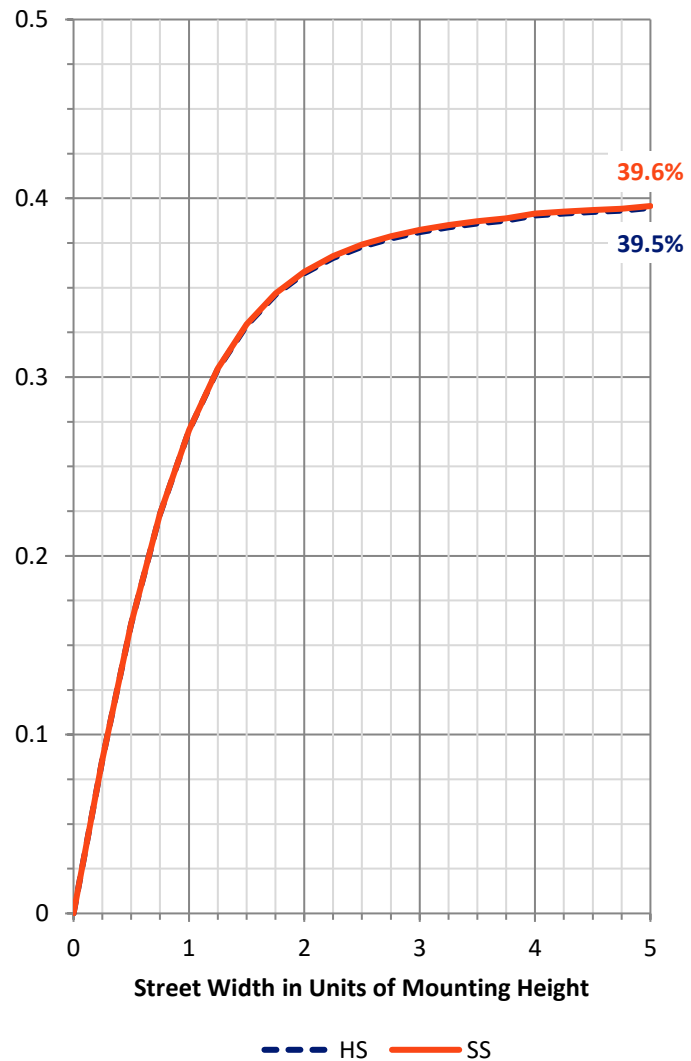
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.2	150.2	729.5
	% Fixture	39.7	10.3	50.0
Street Side	Lumens	579.2	150.2	729.5
	% Fixture	39.7	10.3	50.0
Total	Lumens	1158.4	300.5	1458.9
	% Fixture	79.4	20.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	1.9
10°-20°	80.2	5.5
20°-30°	129.1	8.8
30°-40°	173.6	11.9
40°-50°	214.2	14.7
50°-60°	229.8	15.8
60°-70°	186.4	12.8
70°-80°	98.8	6.8
80°-90°	18.7	1.3
90°-100°	6.7	0.5
100°-110°	68.2	4.7
110°-120°	99.6	6.8
120°-130°	57.8	4.0
130°-140°	30.6	2.1
140°-150°	18.2	1.2
150°-160°	11.2	0.8
160°-170°	6.1	0.4
170°-180°	2.0	0.1
0°-90°	1158.4	79.4
0°-180°	1458.9	100.0



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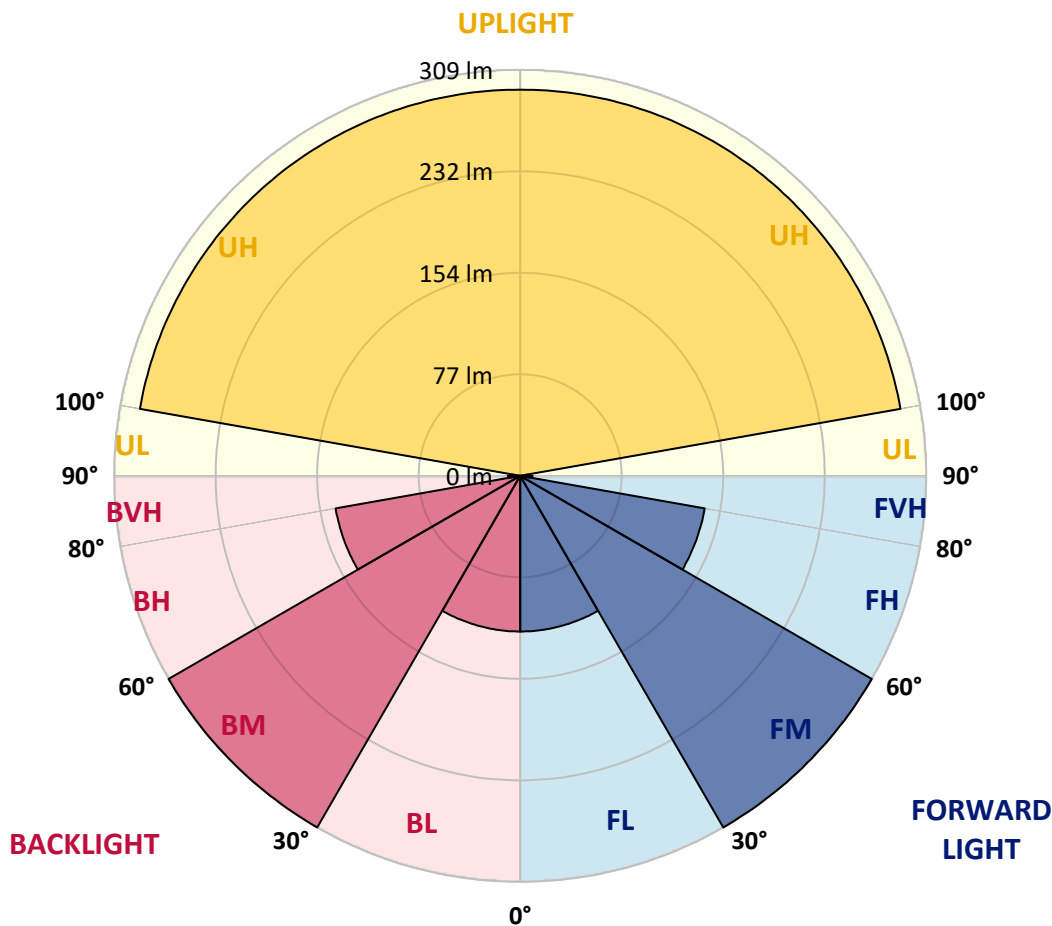
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.4	8.1			
FM (30°-60°)	308.9	21.2			
FH (60°-80°)	142.6	9.8			G0/660
FVH (80°-90°)	9.3	0.6			G0/10
BL (0°-30°)	118.4	8.1	B1/500		
BM (30°-60°)	308.9	21.2	B1/1000		
BH (60°-80°)	142.6	9.8	B1/500		G0/660
BVH (80°-90°)	9.3	0.6			G0/10
UL (90°-100°)	6.7	0.5		U1/10	
UH (100°-180°)	293.8	20.1		U3/500	

BUG Rating: B1-U3-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	291.9
5°	290.9	290.9	290.9	290.9	290.0	290.9	290.9	290.9	290.9	290.9	290.9
7.5°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
10°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
12.5°	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3
15°	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	282.4	282.4
17.5°	281.4	281.4	281.4	281.4	282.4	282.4	282.4	281.4	281.4	281.4	281.4
20°	279.6	279.6	279.6	280.5	280.5	280.5	280.5	280.5	279.6	279.6	279.6
22.5°	278.6	278.6	278.6	278.6	279.6	279.6	279.6	279.6	278.6	278.6	278.6
25°	277.7	277.7	278.6	278.6	279.6	279.6	279.6	278.6	278.6	277.7	277.7
27.5°	277.7	277.7	278.6	278.6	279.6	279.6	279.6	279.6	278.6	277.7	277.7
30°	276.7	277.7	277.7	278.6	279.6	279.6	279.6	278.6	277.7	276.7	276.7
32.5°	275.8	275.8	276.7	277.7	278.6	278.6	278.6	277.7	276.7	275.8	274.8
35°	274.8	274.8	274.8	276.7	277.7	277.7	277.7	276.7	274.8	273.9	273.9
37.5°	272.9	273.9	274.8	275.8	277.7	277.7	277.7	275.8	273.9	272.9	272.0
40°	272.9	272.9	274.8	275.8	278.6	278.6	277.7	275.8	273.9	272.0	271.0
42.5°	272.0	272.9	274.8	277.7	280.5	280.5	279.6	276.7	273.9	272.0	271.0
45°	272.0	272.0	274.8	278.6	282.4	283.3	281.4	278.6	274.8	271.0	271.0
47.5°	270.1	270.1	273.9	278.6	283.3	284.3	283.3	278.6	273.9	271.0	270.1
50°	265.3	265.3	270.1	275.8	281.4	283.3	281.4	277.7	271.0	267.2	266.3
52.5°	257.8	257.8	262.5	270.1	275.8	278.6	276.7	272.0	265.3	259.6	258.7
55°	246.4	247.3	252.1	260.6	267.2	270.1	268.2	262.5	254.9	249.2	247.3
57.5°	233.1	233.1	239.7	248.3	254.9	257.8	255.9	250.2	241.6	236.0	234.1
60°	215.1	216.1	221.7	233.1	239.7	242.6	240.7	234.1	224.6	218.0	216.1
62.5°	197.1	198.1	203.7	213.2	220.8	222.7	220.8	214.2	205.6	199.0	197.1
65°	176.3	177.2	183.8	192.4	198.1	200.9	198.1	192.4	184.8	178.2	177.2
67.5°	154.5	155.4	162.0	169.6	175.3	177.2	174.4	169.6	162.0	156.4	154.5
70°	131.7	132.7	138.4	145.0	149.7	151.6	149.7	144.0	138.4	132.7	131.7
72.5°	108.0	109.0	114.7	120.3	124.1	126.0	123.2	119.4	113.7	109.0	108.0
75°	85.3	85.3	90.0	94.8	98.6	99.5	97.6	94.8	90.0	86.2	84.3
77.5°	63.5	63.5	68.2	71.1	73.0	74.9	73.0	70.1	67.3	63.5	63.5
80°	42.6	42.6	46.4	48.3	50.2	51.2	50.2	48.3	46.4	43.6	42.6
82.5°	25.6	25.6	27.5	29.4	29.4	30.3	30.3	29.4	27.5	25.6	25.6
85°	11.4	10.4	12.3	13.3	13.3	14.2	14.2	13.3	12.3	11.4	11.4
87.5°	0.9	1.9	1.9	2.8	2.8	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)