

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: STREETWORKS

Report Number: P691650

Luminaire Tested: **CRTK2-C018-5TLD-U-T5R-8027-RMARROA5**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-23)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-5TLD-U-T5R-8027-RMARROA5
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE V ROUND OPTIC AND NEMA REFRACTOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6157 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.54')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 53.7
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



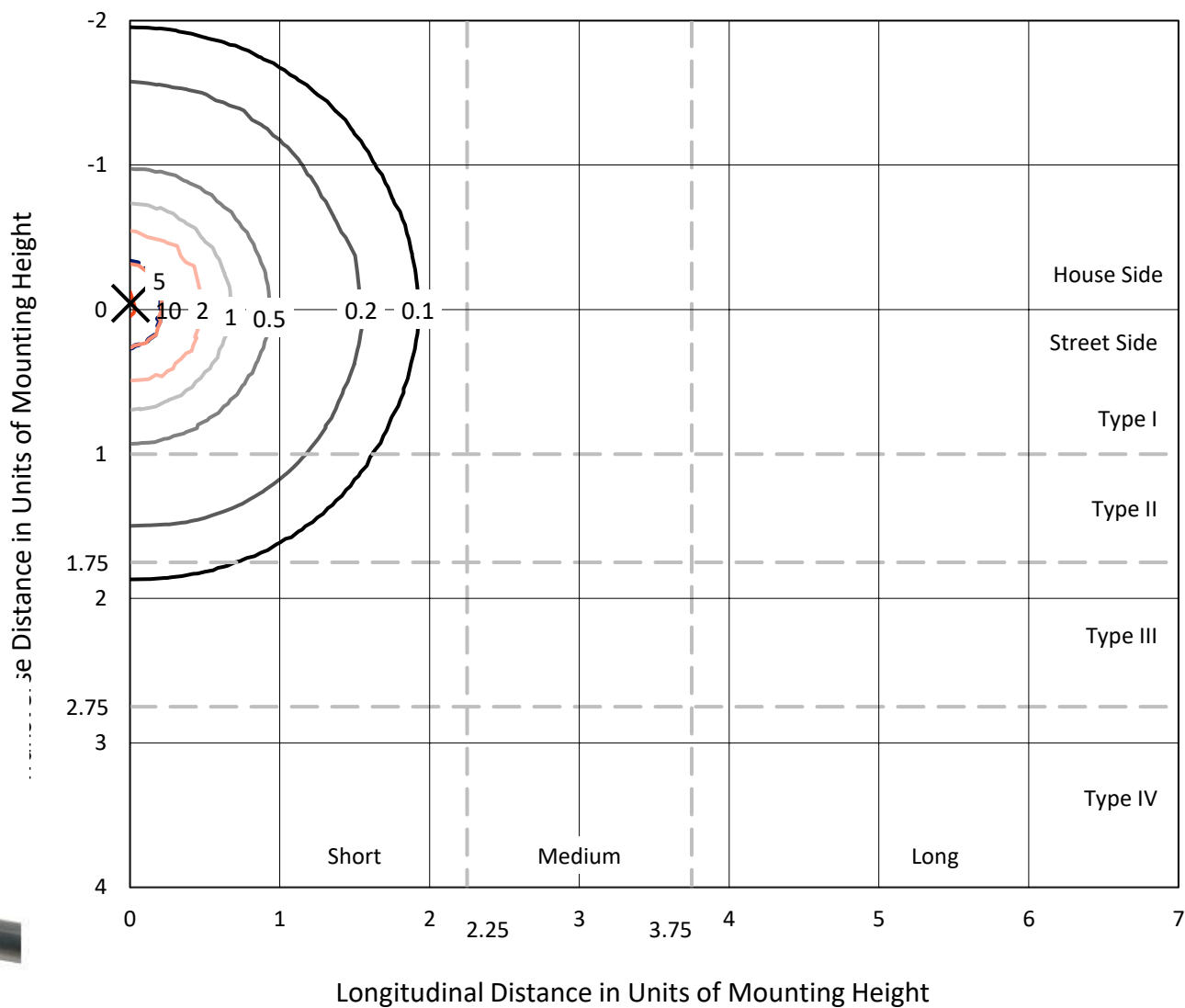
REPORT NUMBER: P691650

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-8027-RMARROA5

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

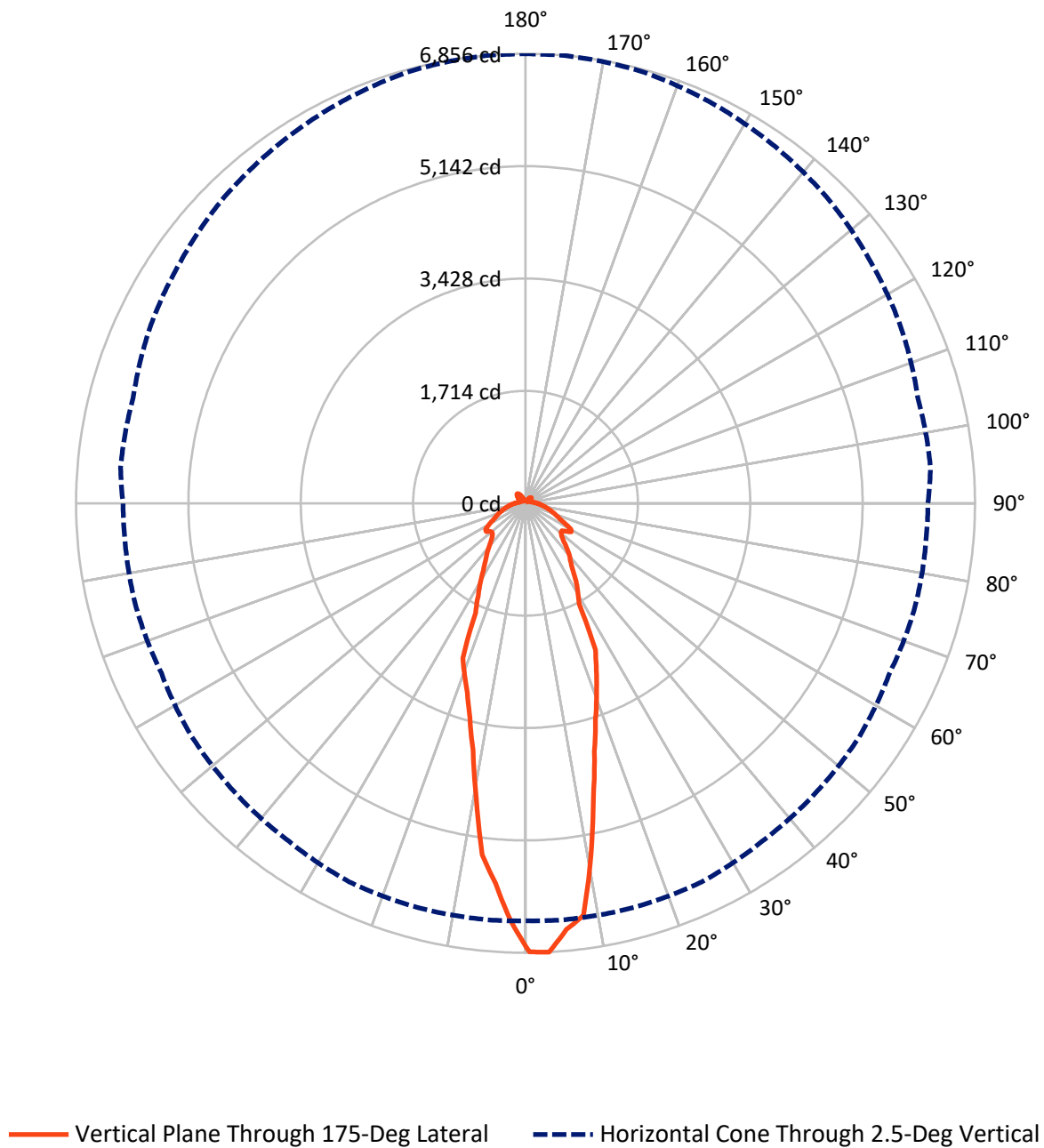


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type V - Short - N/A

REPORT NUMBER: P691650

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-8027-RMARROA5

Luminous Intensity Polar Plot



REPORT NUMBER: P691650

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-8027-RMARROA5

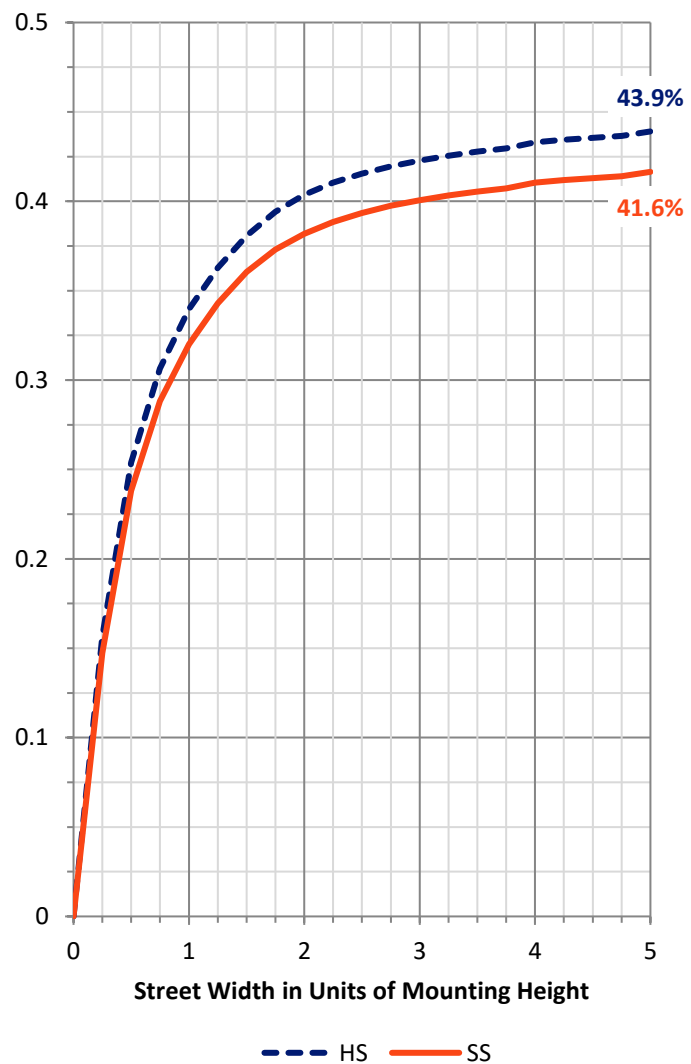
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2786.6	368.1	3154.7
	% Fixture	45.3	6.0	51.2
Street Side	Lumens	2624.5	377.8	3002.3
	% Fixture	42.6	6.1	48.8
Total	Lumens	5411.1	745.9	6157.0
	% Fixture	87.9	12.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.4	8.3
10°-20°	894.1	14.5
20°-30°	886.6	14.4
30°-40°	683.4	11.1
40°-50°	585.9	9.5
50°-60°	655.3	10.6
60°-70°	561.4	9.1
70°-80°	386.3	6.3
80°-90°	248.7	4.0
90°-100°	149.0	2.4
100°-110°	88.7	1.4
110°-120°	82.1	1.3
120°-130°	117.1	1.9
130°-140°	151.3	2.5
140°-150°	112.0	1.8
150°-160°	41.0	0.7
160°-170°	4.8	0.1
170°-180°	0.0	0.0
0°-90°	5411.1	87.9
0°-180°	6157.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691650

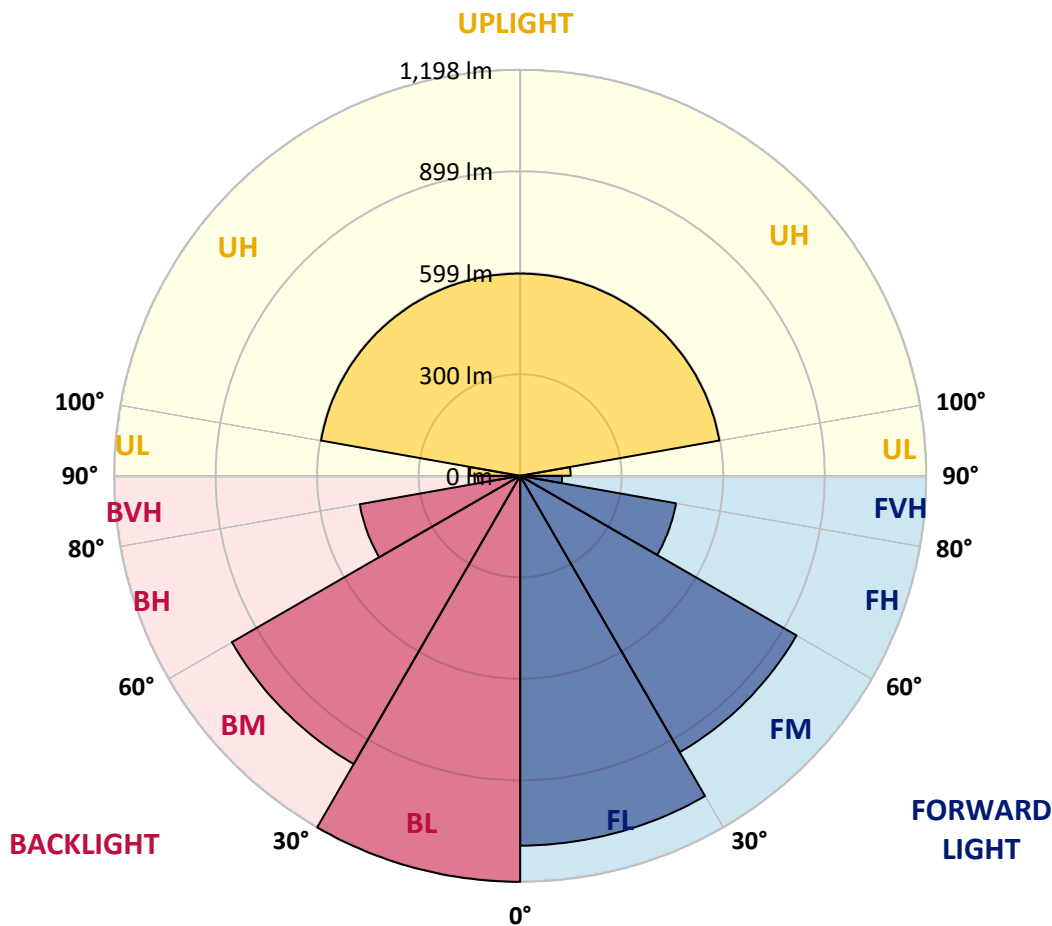
CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-8027-RMARROA5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1091.5	17.7			
FM	(30°-60°)	942.0	15.3			
FH	(60°-80°)	467.0	7.6			G0/660
FVH	(80°-90°)	124.0	2.0			G2/225
BL	(0°-30°)	1198.5	19.5	B3/2500		
BM	(30°-60°)	982.6	16.0	B1/1000		
BH	(60°-80°)	480.7	7.8	B1/500		G0/660
BVH	(80°-90°)	124.7	2.0			G2/225
UL	(90°-100°)	149.0	2.4		U3/500	
UH	(100°-180°)	596.9	9.7		U4/1000	

BUG Rating: B3-U4-G2

Type V Short



REPORT NUMBER: P691650

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	78.8	78.8	78.8	76.4	76.4	74.1	74.1	74.1	74.1	74.1	76.4
115°	83.4	81.1	81.1	81.1	81.1	78.8	76.4	76.4	78.8	78.8	78.8
117.5°	90.3	88.0	88.0	90.3	88.0	85.7	83.4	83.4	85.7	85.7	88.0
120°	99.6	97.3	99.6	99.6	99.6	97.3	95.0	92.7	95.0	97.3	97.3
122.5°	111.2	108.9	111.2	113.5	113.5	111.2	106.5	106.5	108.9	111.2	113.5
125°	125.1	125.1	127.4	129.7	132.0	127.4	125.1	122.8	127.4	129.7	129.7
127.5°	141.3	139.0	143.6	150.6	152.9	148.2	143.6	141.3	145.9	150.6	150.6
130°	157.5	155.2	162.1	169.1	173.7	169.1	164.5	162.1	166.8	171.4	171.4
132.5°	171.4	169.1	178.4	187.6	192.3	189.9	185.3	180.7	187.6	192.3	189.9
135°	183.0	183.0	194.6	203.8	208.5	206.1	201.5	196.9	206.1	210.8	206.1
137.5°	189.9	189.9	203.8	213.1	217.7	217.7	215.4	210.8	220.0	222.4	215.4
140°	189.9	192.3	203.8	213.1	215.4	217.7	217.7	215.4	224.7	224.7	217.7
142.5°	183.0	185.3	196.9	206.1	208.5	210.8	213.1	210.8	217.7	217.7	213.1
145°	171.4	173.7	185.3	194.6	194.6	196.9	201.5	199.2	203.8	206.1	201.5
147.5°	155.2	157.5	166.8	171.4	173.7	178.4	183.0	183.0	185.3	187.6	185.3
150°	134.3	134.3	141.3	145.9	148.2	152.9	157.5	159.8	159.8	162.1	159.8
152.5°	106.5	106.5	111.2	115.8	118.1	125.1	127.4	129.7	132.0	134.3	132.0
155°	81.1	81.1	83.4	85.7	88.0	95.0	97.3	99.6	101.9	104.2	101.9
157.5°	57.9	57.9	60.2	62.5	64.9	69.5	71.8	74.1	74.1	76.4	76.4
160°	37.1	39.4	39.4	41.7	41.7	46.3	48.6	48.6	51.0	53.3	53.3
162.5°	18.5	20.8	20.8	23.2	25.5	27.8	30.1	30.1	32.4	32.4	32.4
165°	4.6	6.9	6.9	9.3	9.3	11.6	13.9	13.9	16.2	16.2	16.2
167.5°	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	4.6	4.6	4.6
170°	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.3	2.3	2.3	2.3
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P691650

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-8027-RMARROA5

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	178°	180°
112.5°	76.4	76.4	76.4	78.8	81.1	81.1	83.4	71.8	69.5	69.5	69.5
115°	81.1	81.1	81.1	83.4	85.7	88.0	88.0	76.4	71.8	71.8	74.1
117.5°	88.0	88.0	88.0	90.3	95.0	95.0	95.0	81.1	78.8	78.8	78.8
120°	97.3	99.6	99.6	101.9	106.5	108.9	104.2	92.7	78.8	85.7	85.7
122.5°	111.2	113.5	115.8	118.1	125.1	125.1	118.1	106.5	85.7	95.0	97.3
125°	129.7	132.0	134.3	139.0	145.9	145.9	136.7	120.4	97.3	106.5	108.9
127.5°	148.2	152.9	155.2	162.1	171.4	171.4	159.8	139.0	108.9	115.8	118.1
130°	169.1	173.7	178.4	187.6	199.2	194.6	185.3	157.5	118.1	122.8	122.8
132.5°	187.6	194.6	196.9	210.8	222.4	217.7	206.1	169.1	122.8	122.8	120.4
135°	201.5	206.1	208.5	222.4	233.9	227.0	213.1	173.7	120.4	115.8	115.8
137.5°	210.8	215.4	217.7	227.0	236.3	224.7	206.1	164.5	115.8	113.5	111.2
140°	215.4	215.4	215.4	222.4	227.0	213.1	189.9	148.2	104.2	108.9	108.9
142.5°	210.8	208.5	206.1	210.8	213.1	196.9	176.0	132.0	95.0	99.6	99.6
145°	199.2	194.6	192.3	194.6	194.6	176.0	152.9	113.5	83.4	85.7	85.7
147.5°	183.0	176.0	171.4	171.4	169.1	150.6	129.7	95.0	71.8	69.5	69.5
150°	157.5	150.6	145.9	145.9	139.0	122.8	104.2	74.1	57.9	57.9	57.9
152.5°	129.7	122.8	118.1	118.1	111.2	95.0	78.8	55.6	44.0	44.0	44.0
155°	101.9	95.0	90.3	88.0	83.4	71.8	57.9	41.7	32.4	32.4	32.4
157.5°	76.4	71.8	67.2	64.9	60.2	53.3	41.7	30.1	20.8	23.2	23.2
160°	53.3	48.6	46.3	44.0	41.7	34.7	27.8	18.5	11.6	11.6	11.6
162.5°	32.4	30.1	30.1	27.8	25.5	23.2	16.2	9.3	4.6	4.6	4.6
165°	16.2	16.2	13.9	13.9	11.6	9.3	6.9	2.3	0.0	0.0	0.0
167.5°	4.6	4.6	4.6	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0
170°	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)