

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: P832870

Luminaire Tested: **TTN-D0-750-U-MQ-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832870
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-D0-750-U-MQ-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1555.9 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

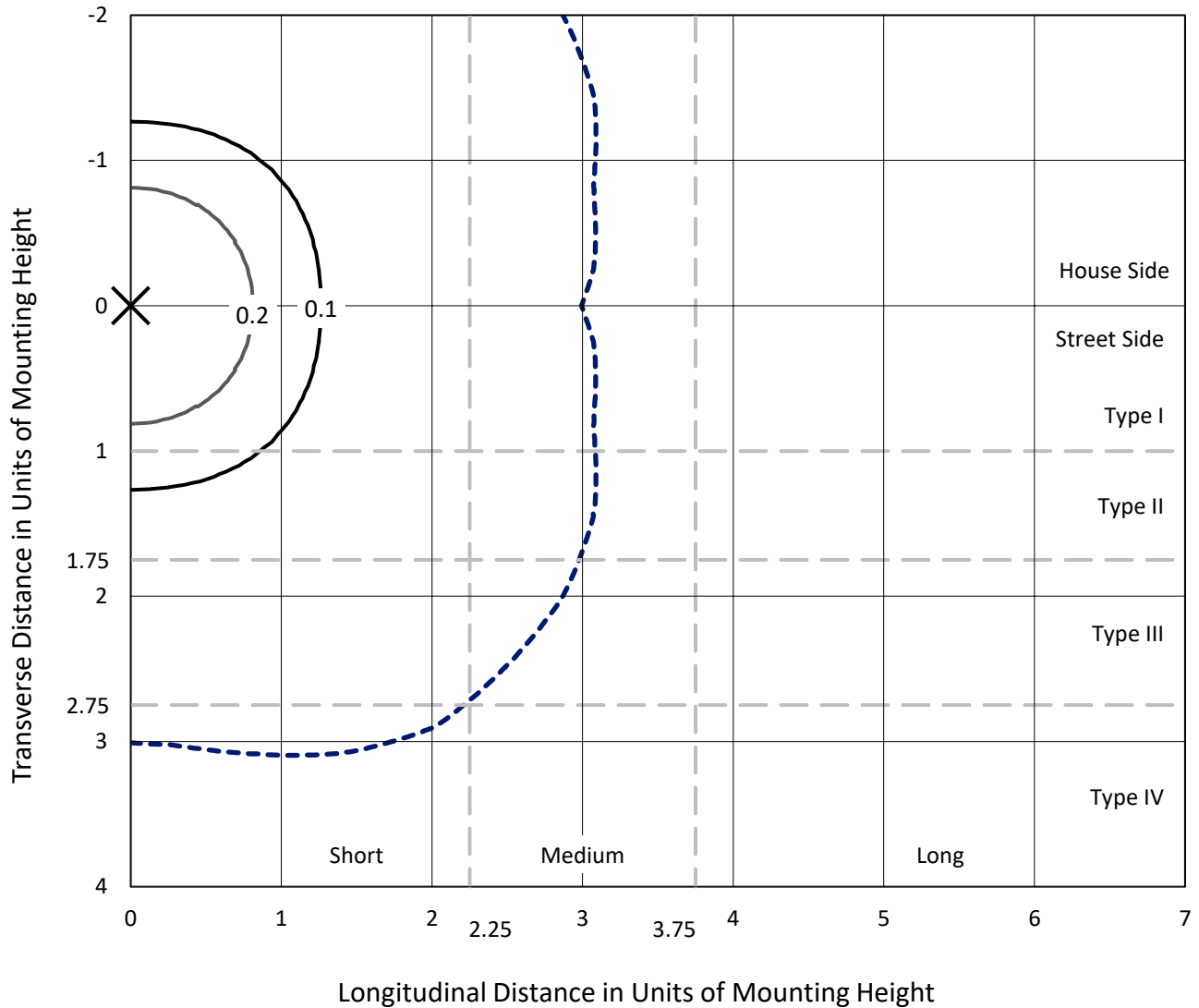
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

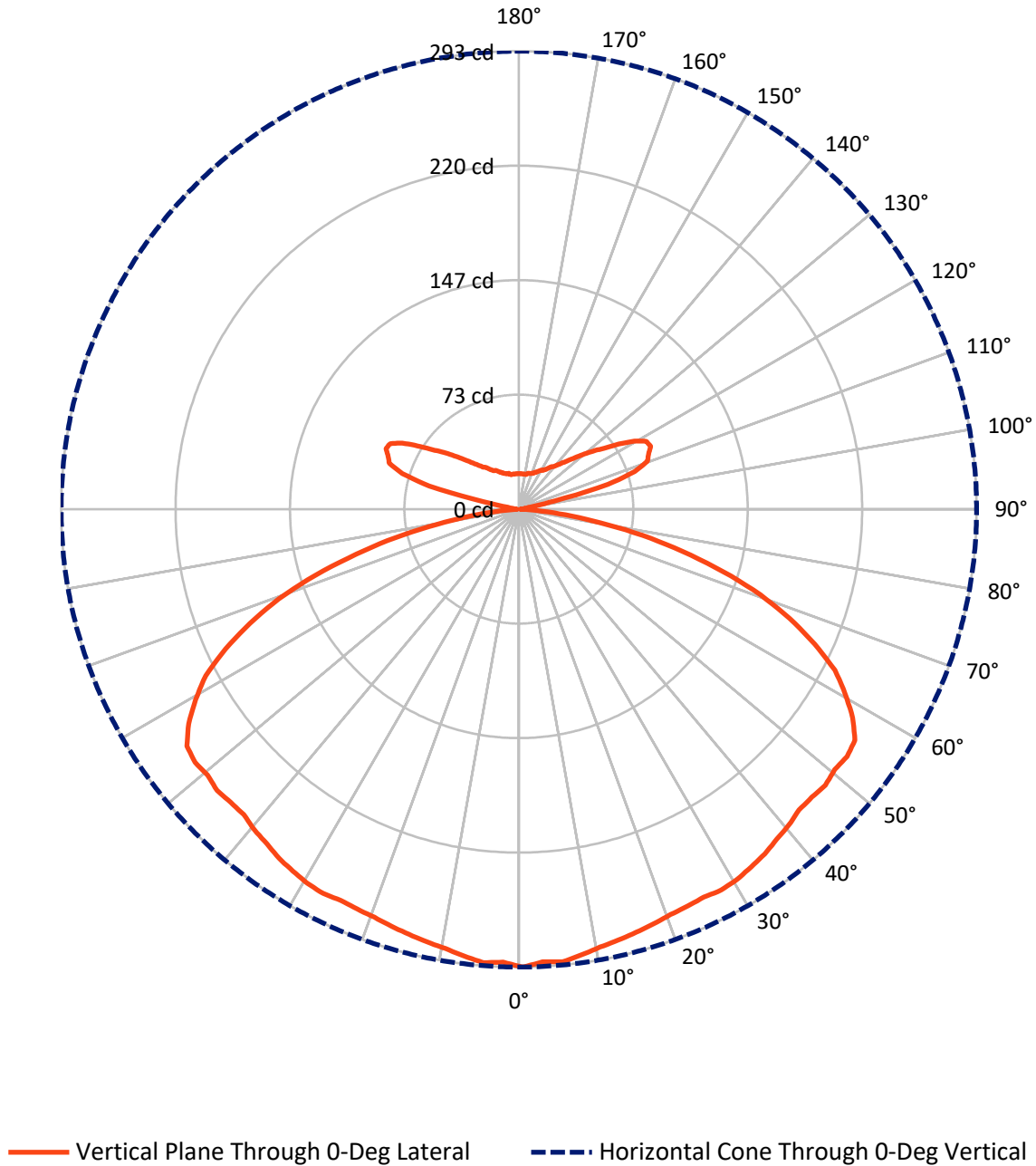
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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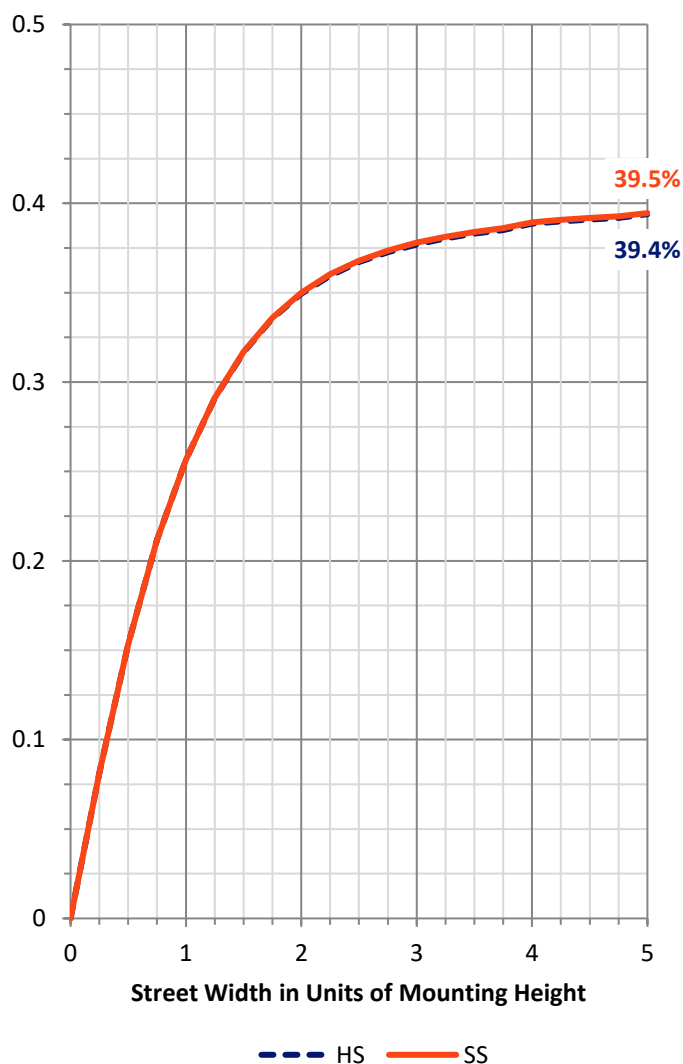
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	616.2	161.7	778.0
	% Fixture	39.6	10.4	50.0
Street Side	Lumens	616.2	161.7	778.0
	% Fixture	39.6	10.4	50.0
Total	Lumens	1232.5	323.4	1555.9
	% Fixture	79.2	20.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.8
10°-20°	79.6	5.1
20°-30°	128.1	8.2
30°-40°	171.1	11.0
40°-50°	207.9	13.4
50°-60°	241.6	15.5
60°-70°	222.9	14.3
70°-80°	130.4	8.4
80°-90°	23.3	1.5
90°-100°	7.2	0.5
100°-110°	73.4	4.7
110°-120°	107.3	6.9
120°-130°	62.3	4.0
130°-140°	33.0	2.1
140°-150°	19.6	1.3
150°-160°	12.1	0.8
160°-170°	6.6	0.4
170°-180°	2.1	0.1
0°-90°	1232.5	79.2
0°-180°	1555.9	100.0

Coefficient of Utilization

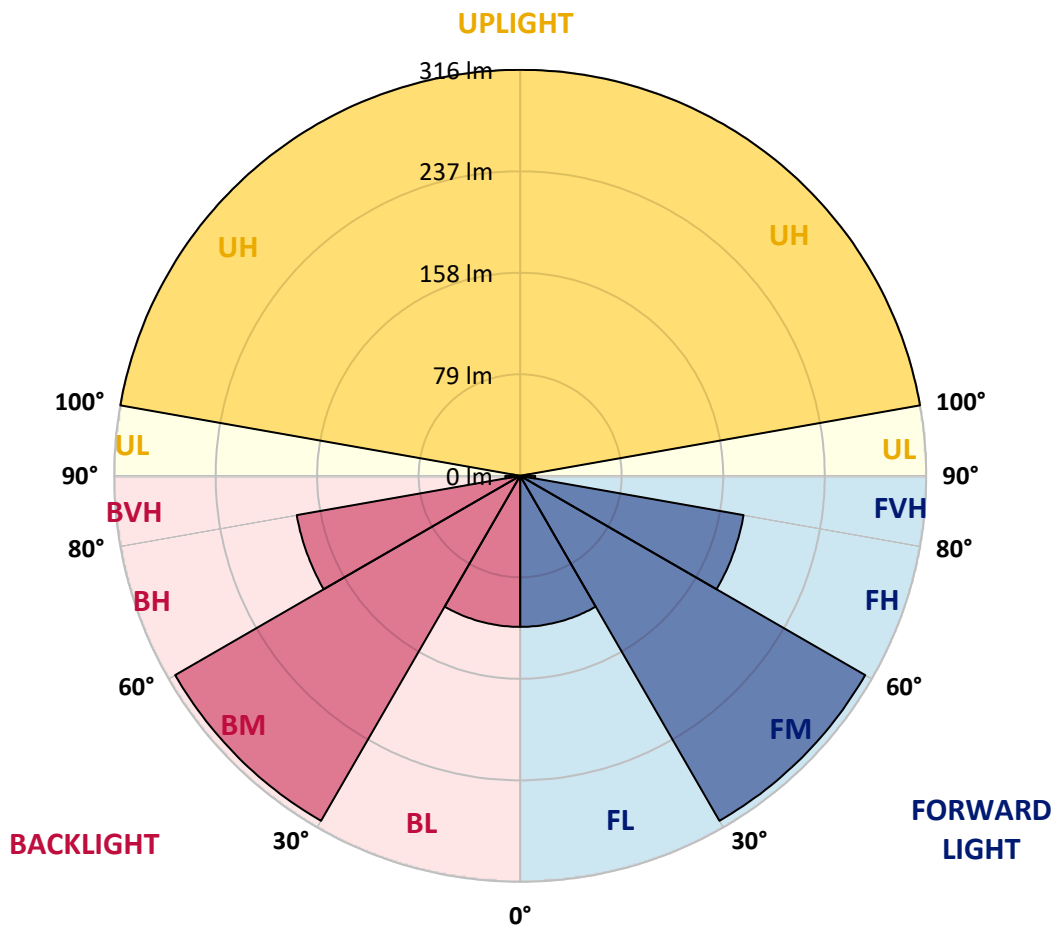


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.6	7.6			
FM (30°-60°)	310.3	19.9			
FH (60°-80°)	176.7	11.4			G0/660
FVH (80°-90°)	11.6	0.7			G1/100
BL (0°-30°)	117.6	7.6	B1/500		
BM (30°-60°)	310.3	19.9	B1/1000		
BH (60°-80°)	176.7	11.4	B1/500		G0/660
BVH (80°-90°)	11.6	0.7			G1/100
UL (90°-100°)	7.2	0.5		U1/10	
UH (100°-180°)	316.2	20.3		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°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1
2.5°	290.1	291.1	290.1	290.1	290.1	290.1	290.1	290.1	290.1	290.1	291.1
5°	291.1	291.1	291.1	291.1	290.1	290.1	290.1	290.1	290.1	291.1	291.1
7.5°	288.1	288.1	288.1	288.1	288.1	287.1	288.1	288.1	288.1	288.1	288.1
10°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
12.5°	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	282.1	282.1
15°	281.1	281.1	281.1	281.1	282.1	282.1	281.1	281.1	281.1	281.1	281.1
17.5°	279.1	279.1	279.1	279.1	280.1	280.1	280.1	279.1	279.1	279.1	279.1
20°	277.1	277.1	277.1	277.1	278.1	278.1	278.1	278.1	278.1	277.1	277.1
22.5°	276.1	276.1	276.1	276.1	277.1	277.1	277.1	277.1	276.1	276.1	276.1
25°	275.1	276.1	276.1	276.1	277.1	278.1	278.1	277.1	276.1	275.1	275.1
27.5°	276.1	276.1	276.1	277.1	277.1	278.1	278.1	277.1	276.1	276.1	276.1
30°	275.1	275.1	275.1	276.1	277.1	278.1	277.1	277.1	276.1	275.1	275.1
32.5°	273.1	273.1	274.1	275.1	276.1	276.1	276.1	275.1	274.1	273.1	273.1
35°	271.1	271.1	271.1	272.1	274.1	274.1	274.1	273.1	272.1	271.1	270.1
37.5°	268.1	269.1	269.1	271.1	272.1	273.1	272.1	271.1	269.1	268.1	268.1
40°	266.1	266.1	267.1	269.1	271.1	271.1	270.1	269.1	267.1	266.1	266.1
42.5°	263.1	263.1	265.1	267.1	270.1	270.1	269.1	267.1	265.1	263.1	263.1
45°	263.1	263.1	265.1	269.1	271.1	273.1	271.1	269.1	265.1	263.1	262.1
47.5°	264.1	264.1	266.1	271.1	275.1	277.1	274.1	270.1	266.1	264.1	263.1
50°	262.1	263.1	267.1	272.1	277.1	278.1	277.1	271.1	267.1	262.1	262.1
52.5°	263.1	263.1	268.1	276.1	281.1	283.1	281.1	276.1	267.1	262.1	262.1
55°	261.1	260.1	267.1	276.1	284.1	288.1	284.1	276.1	266.1	260.1	259.1
57.5°	252.1	252.1	261.1	270.1	280.1	282.1	279.1	270.1	260.1	252.1	250.1
60°	240.1	241.1	250.1	260.1	269.1	270.1	268.1	260.1	250.1	241.1	238.1
62.5°	227.1	229.1	238.1	248.1	259.1	261.1	258.1	248.1	236.1	230.1	225.1
65°	208.1	211.1	221.1	232.1	244.1	243.1	243.1	231.1	222.1	212.1	207.1
67.5°	187.1	190.1	197.1	212.1	222.1	221.1	220.1	212.1	197.1	190.1	187.1
70°	164.1	166.1	173.1	188.1	197.1	198.1	195.1	187.1	173.1	168.1	163.1
72.5°	137.0	138.0	148.0	160.0	169.1	168.1	167.1	160.0	147.0	142.0	136.0
75°	108.0	109.0	118.0	129.0	136.0	135.0	134.0	129.0	118.0	112.0	107.0
77.5°	81.0	80.0	89.0	97.0	101.0	102.0	100.0	96.0	88.0	83.0	80.0
80°	53.0	52.0	60.0	66.0	69.0	69.0	68.0	65.0	59.0	55.0	53.0
82.5°	30.0	29.0	34.0	38.0	41.0	40.0	39.0	37.0	34.0	31.0	29.0
85°	11.0	11.0	14.0	16.0	18.0	18.0	17.0	16.0	13.0	12.0	11.0
87.5°	1.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)