

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: P832960

Luminaire Tested: **TTN-D0-830-U-MQ-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832960
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-D0-830-U-MQ-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1399.9 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

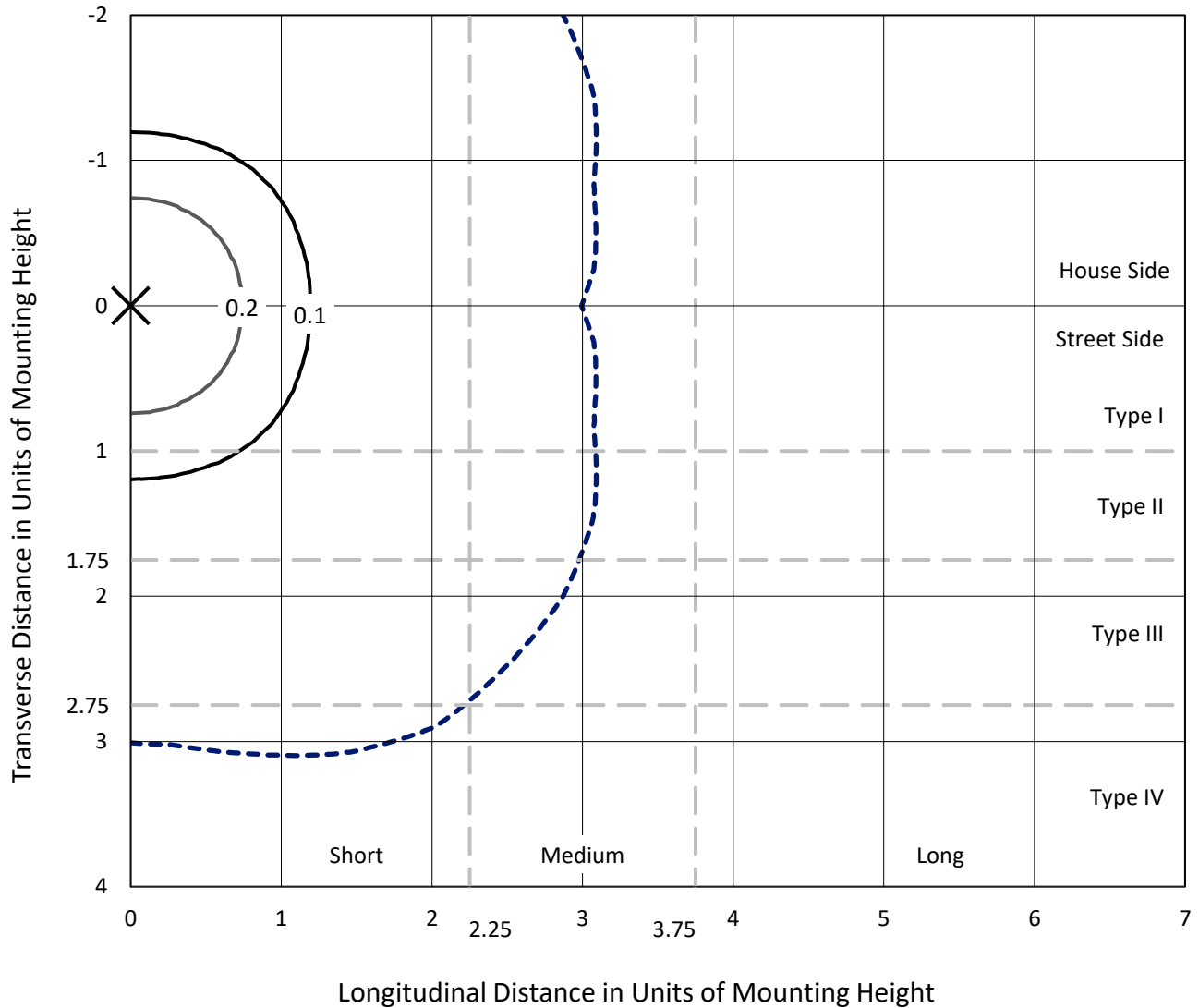
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

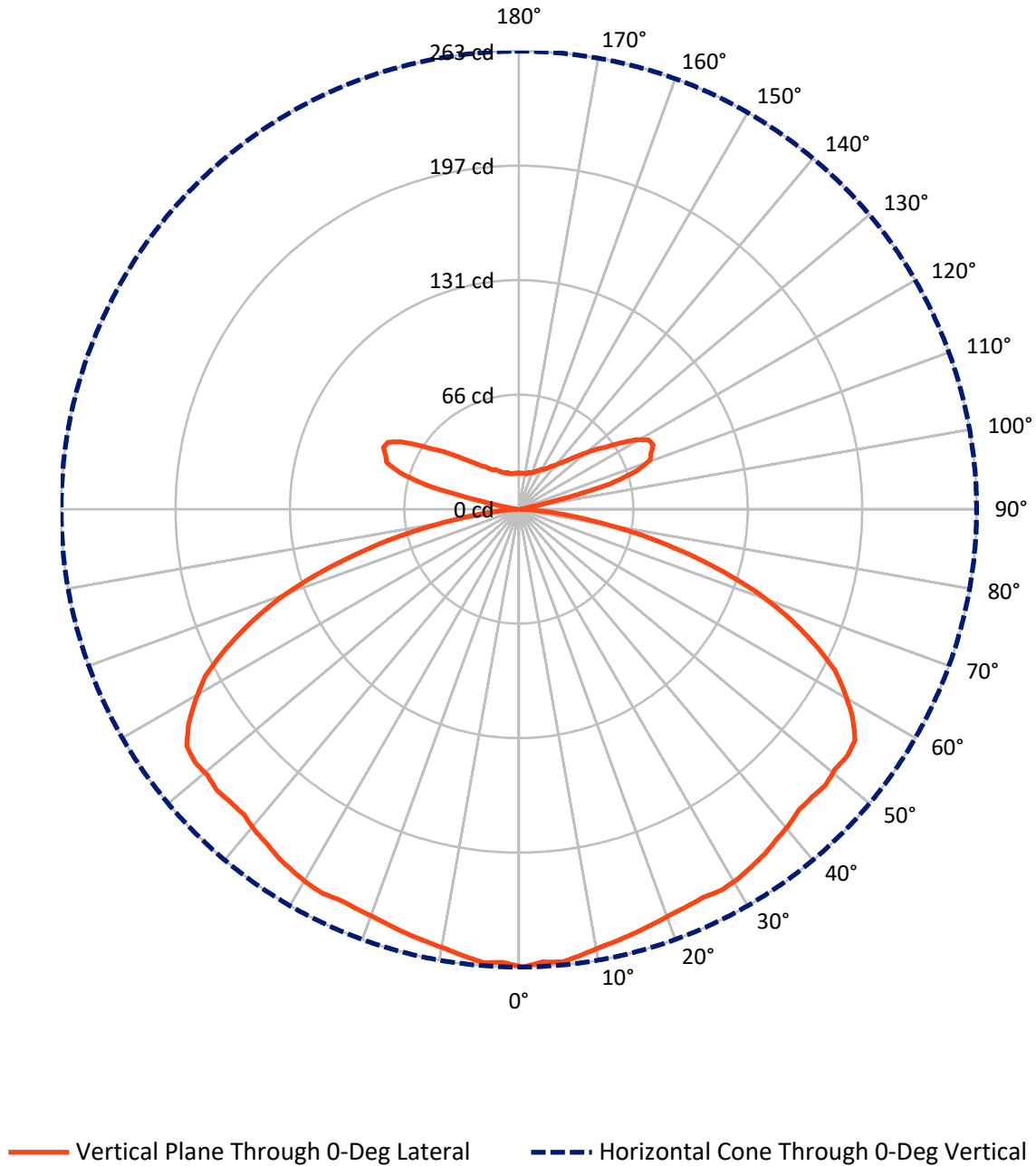
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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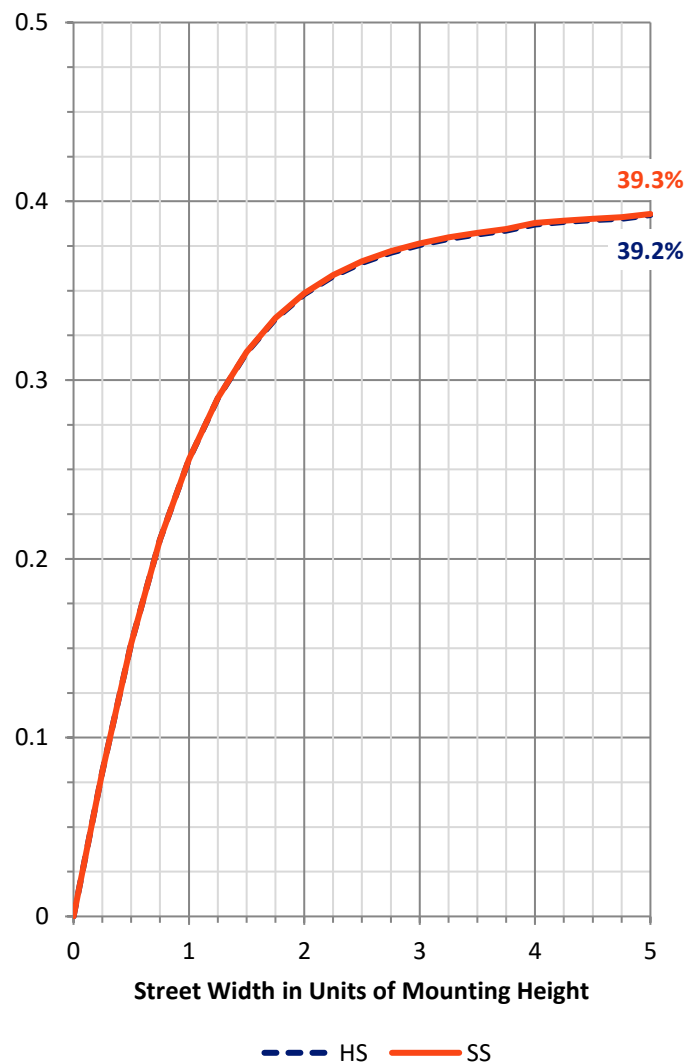
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.2	147.7	699.9
	% Fixture	39.4	10.6	50.0
Street Side	Lumens	552.2	147.7	699.9
	% Fixture	39.4	10.6	50.0
Total	Lumens	1104.4	295.5	1399.9
	% Fixture	78.9	21.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	1.8
10°-20°	71.4	5.1
20°-30°	114.8	8.2
30°-40°	153.3	11.0
40°-50°	186.3	13.3
50°-60°	216.5	15.5
60°-70°	199.7	14.3
70°-80°	116.9	8.4
80°-90°	20.9	1.5
90°-100°	6.6	0.5
100°-110°	67.0	4.8
110°-120°	98.0	7.0
120°-130°	56.9	4.1
130°-140°	30.1	2.2
140°-150°	17.9	1.3
150°-160°	11.0	0.8
160°-170°	6.0	0.4
170°-180°	2.0	0.1
0°-90°	1104.4	78.9
0°-180°	1399.9	100.0



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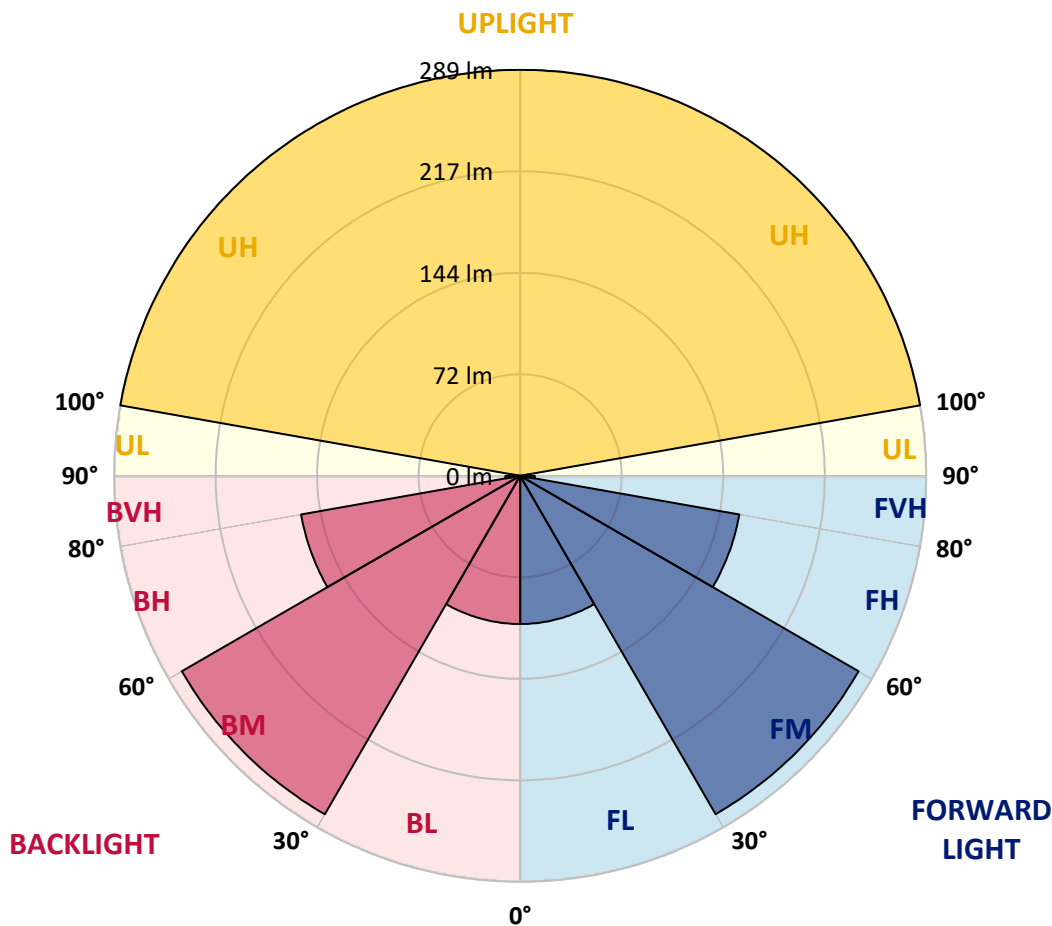
CATALOG NUMBER: TTN-D0-830-U-MQ-CG-UPL1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.4	7.5			
FM (30°-60°)	278.0	19.9			
FH (60°-80°)	158.3	11.3			G0/660
FVH (80°-90°)	10.4	0.7			G1/100
BL (0°-30°)	105.4	7.5	B0/110		
BM (30°-60°)	278.0	19.9	B1/1000		
BH (60°-80°)	158.3	11.3	B1/500		G0/660
BVH (80°-90°)	10.4	0.7			G1/100
UL (90°-100°)	6.6	0.5		U1/10	
UH (100°-180°)	288.9	20.6		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°	262.6	262.6	262.6	262.6	262.6	262.6	262.6	262.6	262.6	262.6	262.6
2.5°	260.0	260.8	260.0	260.0	260.0	260.0	260.0	260.0	260.0	260.0	260.8
5°	260.8	260.8	260.8	260.8	260.0	260.0	260.0	260.0	260.0	260.8	260.8
7.5°	258.2	258.2	258.2	258.2	258.2	257.3	258.2	258.2	258.2	258.2	258.2
10°	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5	255.5
12.5°	253.7	253.7	253.7	253.7	253.7	253.7	253.7	253.7	253.7	252.8	252.8
15°	251.9	251.9	251.9	251.9	252.8	252.8	251.9	251.9	251.9	251.9	251.9
17.5°	250.1	250.1	250.1	250.1	251.0	251.0	251.0	250.1	250.1	250.1	250.1
20°	248.3	248.3	248.3	248.3	249.2	249.2	249.2	249.2	249.2	248.3	248.3
22.5°	247.4	247.4	247.4	247.4	248.3	248.3	248.3	248.3	247.4	247.4	247.4
25°	246.5	247.4	247.4	247.4	248.3	249.2	249.2	248.3	247.4	246.5	246.5
27.5°	247.4	247.4	247.4	248.3	248.3	249.2	249.2	248.3	247.4	247.4	247.4
30°	246.5	246.5	246.5	247.4	248.3	249.2	248.3	248.3	247.4	246.5	246.5
32.5°	244.7	244.7	245.6	246.5	247.4	247.4	247.4	246.5	245.6	244.7	244.7
35°	242.9	242.9	242.9	243.8	245.6	245.6	245.6	244.7	243.8	242.9	242.0
37.5°	240.2	241.1	241.1	242.9	243.8	244.7	243.8	242.9	241.1	240.2	240.2
40°	238.4	238.4	239.3	241.1	242.9	242.9	242.0	241.1	239.3	238.4	238.4
42.5°	235.7	235.7	237.5	239.3	242.0	242.0	241.1	239.3	237.5	235.7	235.7
45°	235.7	235.7	237.5	241.1	242.9	244.7	242.9	241.1	237.5	235.7	234.9
47.5°	236.6	236.6	238.4	242.9	246.5	248.3	245.6	242.0	238.4	236.6	235.7
50°	234.9	235.7	239.3	243.8	248.3	249.2	248.3	242.9	239.3	234.9	234.9
52.5°	235.7	235.7	240.2	247.4	251.9	253.7	251.9	247.4	239.3	234.9	234.9
55°	234.0	233.1	239.3	247.4	254.6	258.2	254.6	247.4	238.4	233.1	232.2
57.5°	225.9	225.9	234.0	242.0	251.0	252.8	250.1	242.0	233.1	225.9	224.1
60°	215.1	216.0	224.1	233.1	241.1	242.0	240.2	233.1	224.1	216.0	213.3
62.5°	203.5	205.3	213.3	222.3	232.2	234.0	231.3	222.3	211.5	206.2	201.7
65°	186.4	189.1	198.1	208.0	218.7	217.8	217.8	207.1	199.0	190.0	185.6
67.5°	167.6	170.3	176.6	190.0	199.0	198.1	197.2	190.0	176.6	170.3	167.6
70°	147.0	148.8	155.1	168.5	176.6	177.5	174.8	167.6	155.1	150.6	146.1
72.5°	122.8	123.7	132.7	143.4	151.5	150.6	149.7	143.4	131.8	127.3	121.9
75°	96.8	97.7	105.8	115.6	121.9	121.0	120.1	115.6	105.8	100.4	95.9
77.5°	72.6	71.7	79.8	86.9	90.5	91.4	89.6	86.1	78.9	74.4	71.7
80°	47.5	46.6	53.8	59.2	61.9	61.9	61.0	58.3	52.9	49.3	47.5
82.5°	26.9	26.0	30.5	34.1	36.8	35.9	35.0	33.2	30.5	27.8	26.0
85°	9.9	9.9	12.5	14.3	16.1	16.1	15.2	14.3	11.7	10.8	9.9
87.5°	0.9	0.9	1.8	2.7	2.7	2.7	1.8	1.8	0.9	0.9	0.9
90°	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5
92.5°	2.5	2.5	2.5	3.5	4.0	3.5	4.0	3.0	3.0	2.5	2.5
95°	3.0	3.0	3.5	4.5	5.6	6.1	6.1	3.5	3.5	3.0	3.0
97.5°	4.0	4.5	4.5	5.6	9.1	16.7	10.1	5.1	5.1	4.5	4.0
100°	6.6	7.1	7.1	12.6	26.8	35.9	25.8	13.1	9.6	7.1	7.1
102.5°	21.2	22.2	27.3	40.9	60.7	55.1	46.5	44.0	30.3	24.3	23.3
105°	54.1	53.6	57.6	68.2	84.9	83.4	76.8	69.8	60.2	55.6	55.6
107.5°	71.3	71.3	74.8	83.9	96.6	112.7	114.2	90.5	79.4	74.3	73.8
110°	80.4	80.4	83.4	91.0	107.7	130.4	129.4	111.7	98.1	91.5	90.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.4	82.9	86.9	98.6	116.8	126.9	122.3	115.3	109.2	104.1	103.1
115°	85.4	85.4	90.0	101.1	111.2	115.3	110.2	104.6	100.6	98.6	99.6
117.5°	84.4	85.9	86.9	93.0	99.6	102.6	100.1	92.5	89.5	88.5	86.9
120°	78.4	78.4	79.4	82.4	85.9	87.5	86.4	81.4	78.9	78.4	77.3
122.5°	69.8	70.3	69.8	71.3	73.8	75.3	74.3	70.3	69.3	69.3	68.2
125°	61.2	61.2	60.7	61.7	63.2	62.7	63.2	61.2	60.7	60.7	60.2
127.5°	55.1	54.6	53.6	54.1	54.6	54.6	55.1	53.1	53.6	54.1	53.6
130°	49.0	49.0	48.0	48.0	48.0	47.0	48.0	47.0	47.5	48.0	48.5
132.5°	43.5	43.5	42.0	41.5	41.5	41.5	42.0	41.5	42.5	43.5	43.5
135°	38.9	38.9	37.4	37.9	37.9	37.4	37.9	37.4	38.4	38.9	38.9
137.5°	35.4	35.4	34.4	34.4	34.4	33.9	34.4	34.4	34.9	35.9	36.4
140°	32.4	32.4	31.8	31.8	31.3	31.8	31.8	31.8	32.4	32.9	32.9
142.5°	30.8	30.3	29.8	29.3	29.8	29.8	29.8	29.3	29.8	30.8	30.8
145°	28.3	28.3	27.8	27.8	27.8	28.3	27.8	27.8	28.3	28.3	28.8
147.5°	26.8	26.8	26.3	26.8	26.8	26.8	26.8	26.3	26.8	26.8	27.3
150°	26.3	25.8	25.3	25.8	25.8	25.3	25.3	25.3	25.3	25.8	25.8
152.5°	24.8	24.8	24.3	24.8	24.3	24.3	24.3	24.3	24.3	24.8	25.3
155°	23.8	23.8	23.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
157.5°	22.7	23.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
160°	22.2	22.2	22.2	22.2	21.7	21.7	21.7	22.2	22.2	22.2	22.7
162.5°	21.7	21.7	21.7	21.7	21.2	21.2	21.2	21.2	21.7	21.7	22.2
165°	21.7	21.2	21.2	21.2	20.7	20.7	20.7	20.7	21.2	21.7	21.2
167.5°	20.7	20.7	20.7	20.7	20.7	20.2	20.2	20.7	20.7	20.7	21.2
170°	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.7
172.5°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.7	20.7
175°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.7	20.7	20.7	20.2
177.5°	20.7	20.7	20.7	20.7	20.2	20.7	20.7	20.7	20.7	20.7	20.7
180°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)