

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: P833311

Luminaire Tested: **TTN-D1-830-U-CQ-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833311
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-D1-830-U-CQ-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3324.8 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

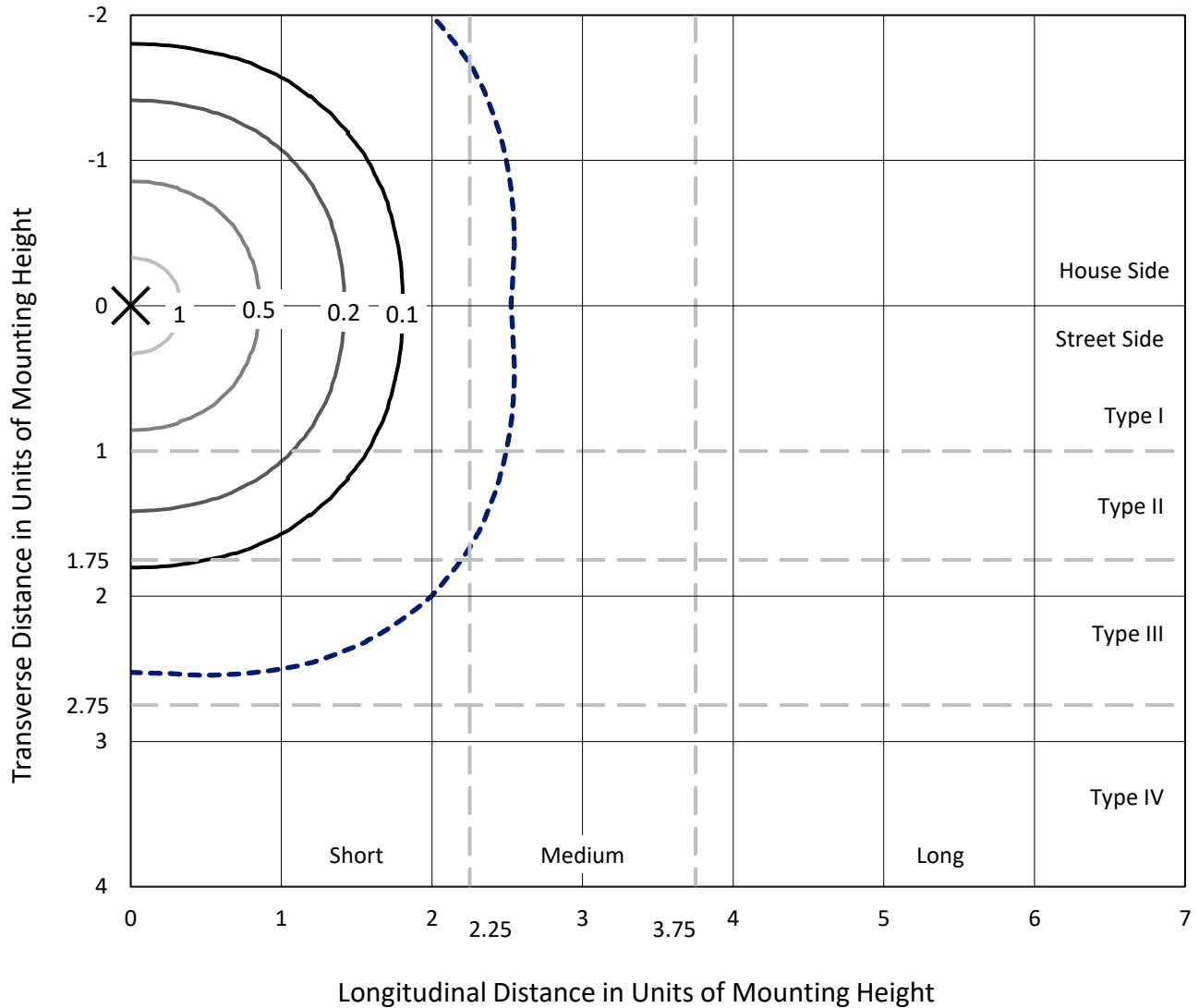
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

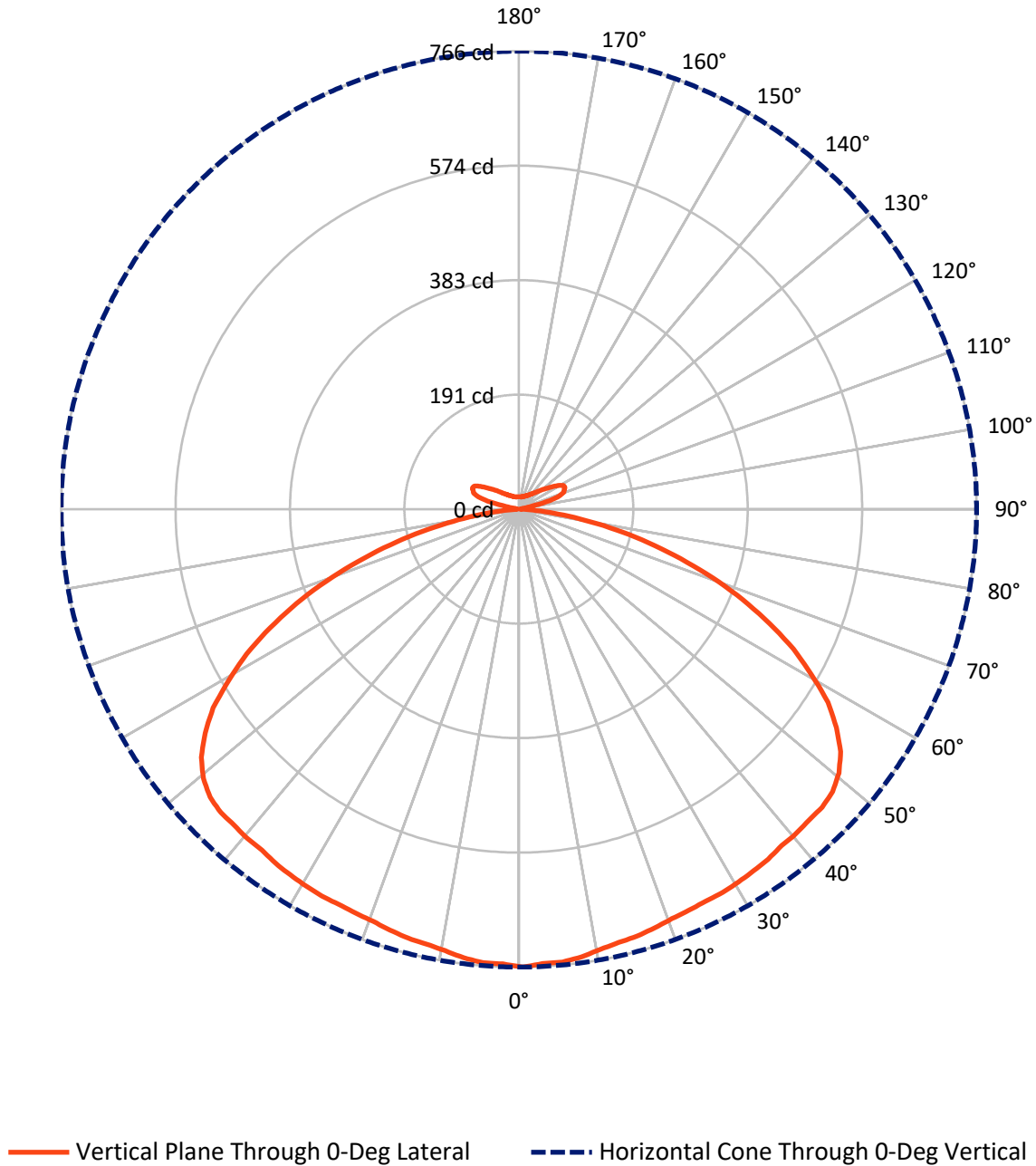
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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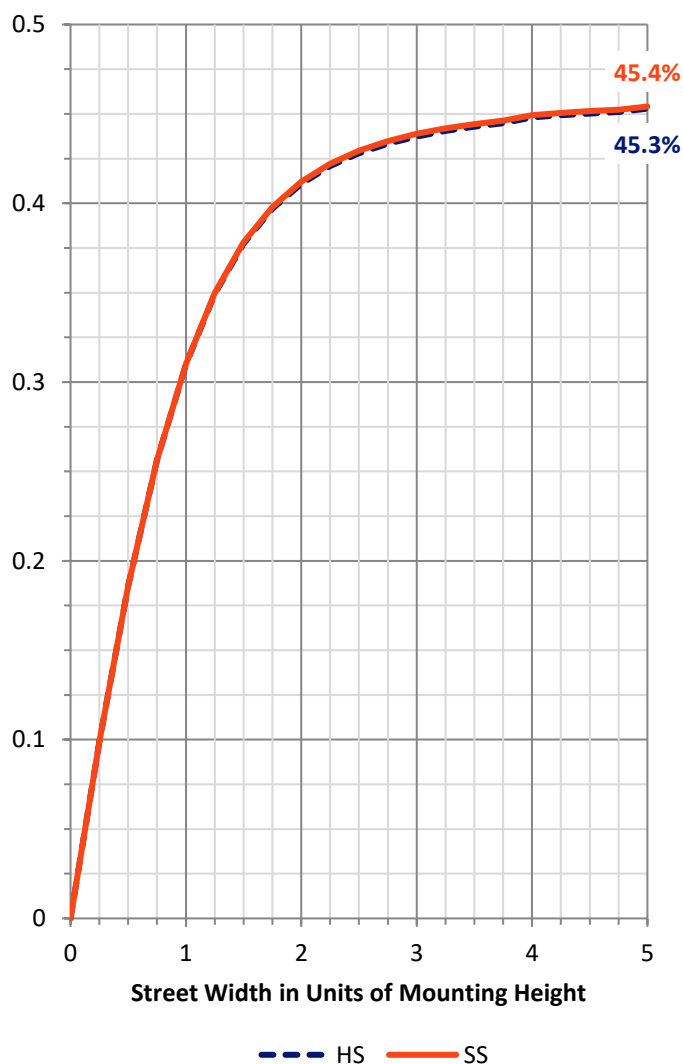
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1514.7	147.7	1662.4
	% Fixture	45.6	4.4	50.0
Street Side	Lumens	1514.7	147.7	1662.4
	% Fixture	45.6	4.4	50.0
Total	Lumens	3029.4	295.5	3324.8
	% Fixture	91.1	8.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	2.2
10°-20°	209.7	6.3
20°-30°	337.7	10.2
30°-40°	454.2	13.7
40°-50°	560.4	16.9
50°-60°	601.2	18.1
60°-70°	487.5	14.7
70°-80°	258.4	7.8
80°-90°	48.2	1.4
90°-100°	6.6	0.2
100°-110°	67.0	2.0
110°-120°	98.0	2.9
120°-130°	56.9	1.7
130°-140°	30.1	0.9
140°-150°	17.9	0.5
150°-160°	11.0	0.3
160°-170°	6.0	0.2
170°-180°	2.0	0.1
0°-90°	3029.4	91.1
0°-180°	3324.8	100.0

Coefficient of Utilization

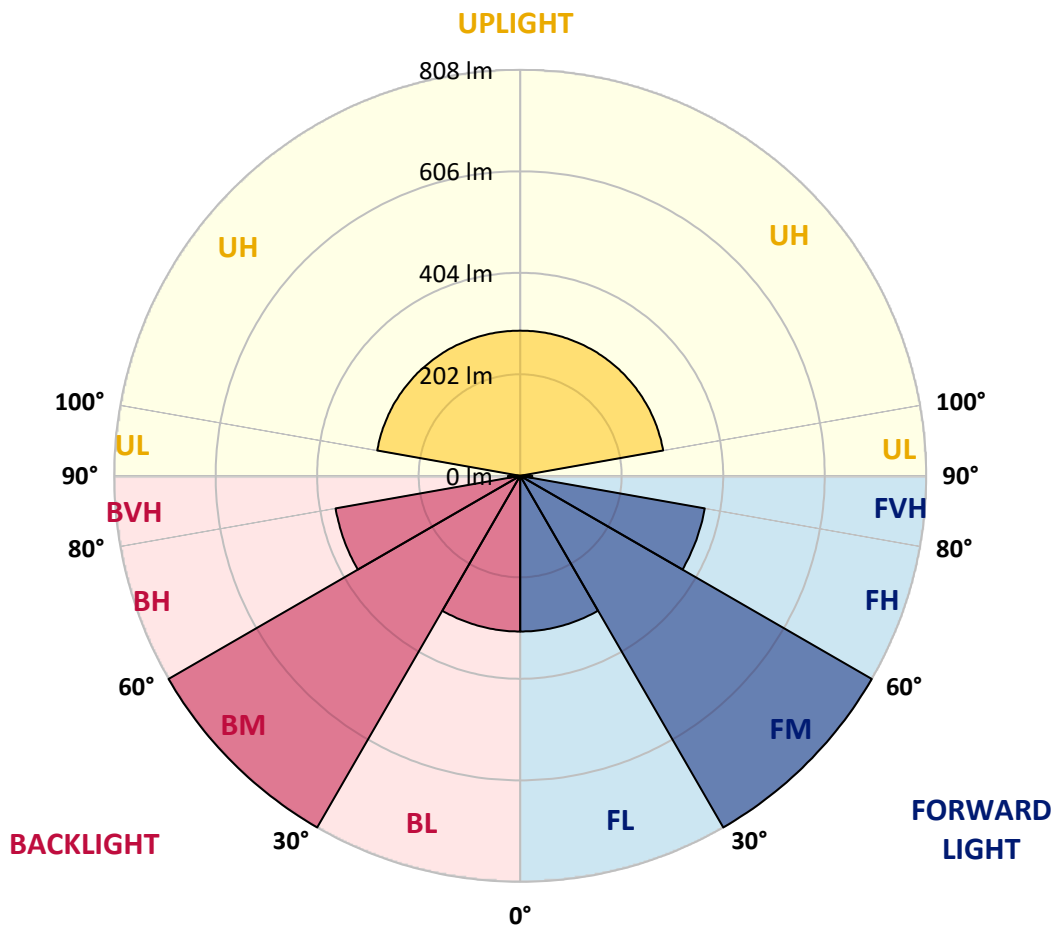


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.8	9.3			
FM (30°-60°)	807.9	24.3			
FH (60°-80°)	373.0	11.2			G0/660
FVH (80°-90°)	24.1	0.7			G1/100
BL (0°-30°)	309.8	9.3	B1/500		
BM (30°-60°)	807.9	24.3	B1/1000		
BH (60°-80°)	373.0	11.2	B1/500		G0/660
BVH (80°-90°)	24.1	0.7			G1/100
UL (90°-100°)	6.6	0.2		U1/10	
UH (100°-180°)	288.9	8.7		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°	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9	765.9
2.5°	761.0	761.0	761.0	761.0	761.0	761.0	761.0	761.0	761.0	761.0	763.4
5°	761.0	761.0	761.0	761.0	758.5	761.0	761.0	761.0	761.0	761.0	761.0
7.5°	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0
10°	748.6	748.6	748.6	748.6	748.6	748.6	748.6	748.6	748.6	748.6	748.6
12.5°	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6
15°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	738.7	738.7
17.5°	736.2	736.2	736.2	736.2	738.7	738.7	738.7	736.2	736.2	736.2	736.2
20°	731.2	731.2	731.2	733.7	733.7	733.7	733.7	733.7	731.2	731.2	731.2
22.5°	728.7	728.7	728.7	728.7	731.2	731.2	731.2	731.2	728.7	728.7	728.7
25°	726.3	726.3	728.7	728.7	731.2	731.2	731.2	728.7	728.7	726.3	726.3
27.5°	726.3	726.3	728.7	728.7	731.2	731.2	731.2	731.2	728.7	726.3	726.3
30°	723.8	726.3	726.3	728.7	731.2	731.2	731.2	728.7	726.3	723.8	723.8
32.5°	721.3	721.3	723.8	726.3	728.7	728.7	728.7	726.3	723.8	721.3	718.8
35°	718.8	718.8	718.8	723.8	726.3	726.3	726.3	723.8	718.8	716.4	716.4
37.5°	713.9	716.4	718.8	721.3	726.3	726.3	726.3	721.3	716.4	713.9	711.4
40°	713.9	713.9	718.8	721.3	728.7	728.7	726.3	721.3	716.4	711.4	708.9
42.5°	711.4	713.9	718.8	726.3	733.7	733.7	731.2	723.8	716.4	711.4	708.9
45°	711.4	711.4	718.8	728.7	738.7	741.1	736.2	728.7	718.8	708.9	708.9
47.5°	706.4	706.4	716.4	728.7	741.1	743.6	741.1	728.7	716.4	708.9	706.4
50°	694.0	694.0	706.4	721.3	736.2	741.1	736.2	726.3	708.9	699.0	696.5
52.5°	674.2	674.2	686.6	706.4	721.3	728.7	723.8	711.4	694.0	679.2	676.7
55°	644.5	646.9	659.3	681.6	699.0	706.4	701.5	686.6	666.8	651.9	646.9
57.5°	609.8	609.8	627.1	649.4	666.8	674.2	669.3	654.4	632.1	617.2	612.2
60°	562.7	565.1	580.0	609.8	627.1	634.6	629.6	612.2	587.5	570.1	565.1
62.5°	515.6	518.1	532.9	557.7	577.5	582.5	577.5	560.2	537.9	520.5	515.6
65°	461.0	463.5	480.9	503.2	518.1	525.5	518.1	503.2	483.4	466.0	463.5
67.5°	404.0	406.5	423.9	443.7	458.6	463.5	456.1	443.7	423.9	409.0	404.0
70°	344.5	347.0	361.9	379.2	391.6	396.6	391.6	376.8	361.9	347.0	344.5
72.5°	282.6	285.1	299.9	314.8	324.7	329.7	322.2	312.3	297.4	285.1	282.6
75°	223.1	223.1	235.5	247.9	257.8	260.3	255.3	247.9	235.5	225.6	220.6
77.5°	166.1	166.1	178.5	185.9	190.9	195.8	190.9	183.4	176.0	166.1	166.1
80°	111.5	111.5	121.5	126.4	131.4	133.9	131.4	126.4	121.5	114.0	111.5
82.5°	66.9	66.9	71.9	76.8	76.8	79.3	79.3	76.8	71.9	66.9	66.9
85°	29.7	27.3	32.2	34.7	34.7	37.2	37.2	34.7	32.2	29.7	29.7
87.5°	2.5	5.0	5.0	7.4	7.4	7.4	7.4	7.4	5.0	5.0	5.0
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)