

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: P833313

Luminaire Tested: **TTN-D1-830-U-CQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833313
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-UPL3
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: 3770.7 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

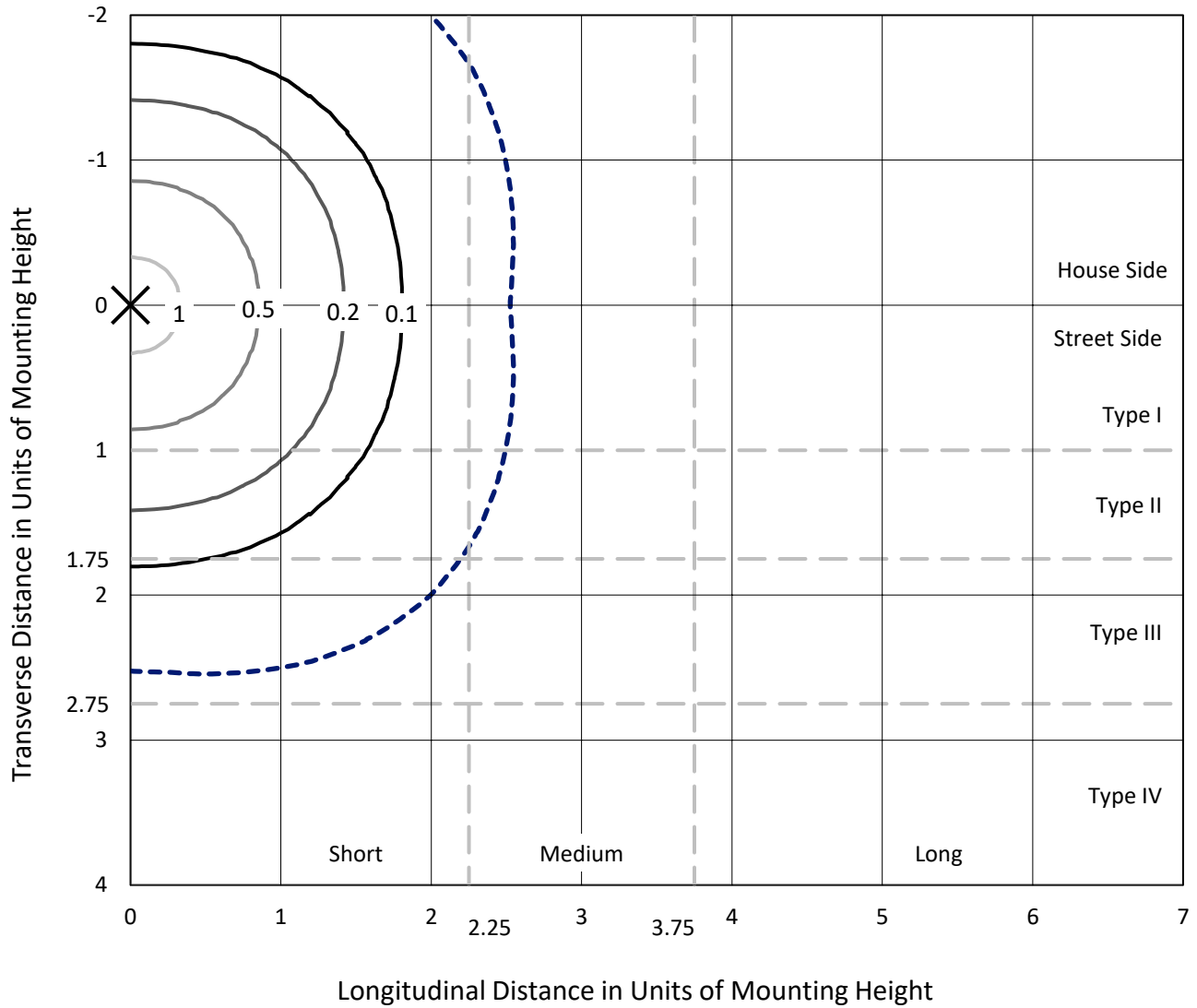
Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

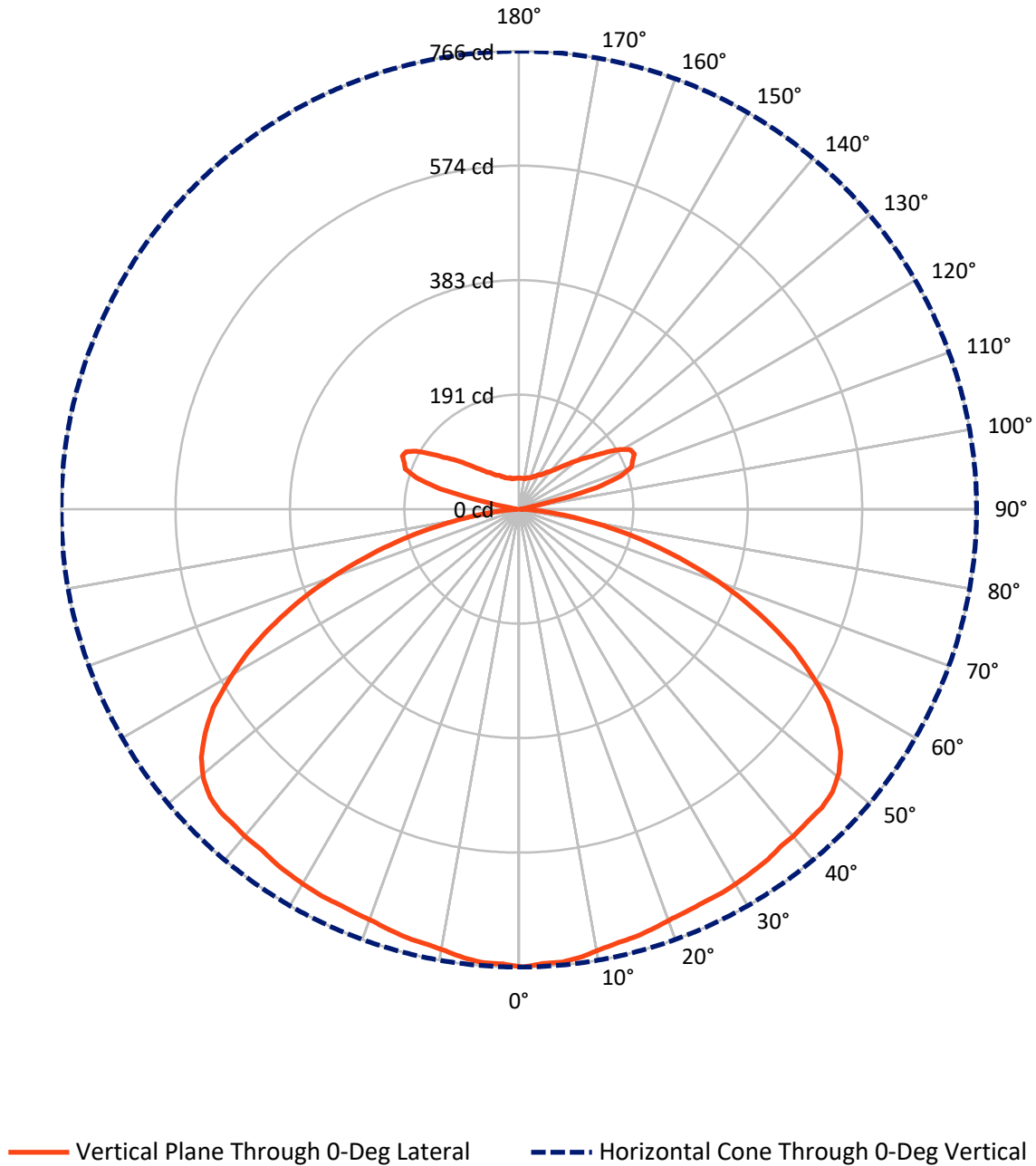
✕ Max cd
 - - - 1/2 Max cd



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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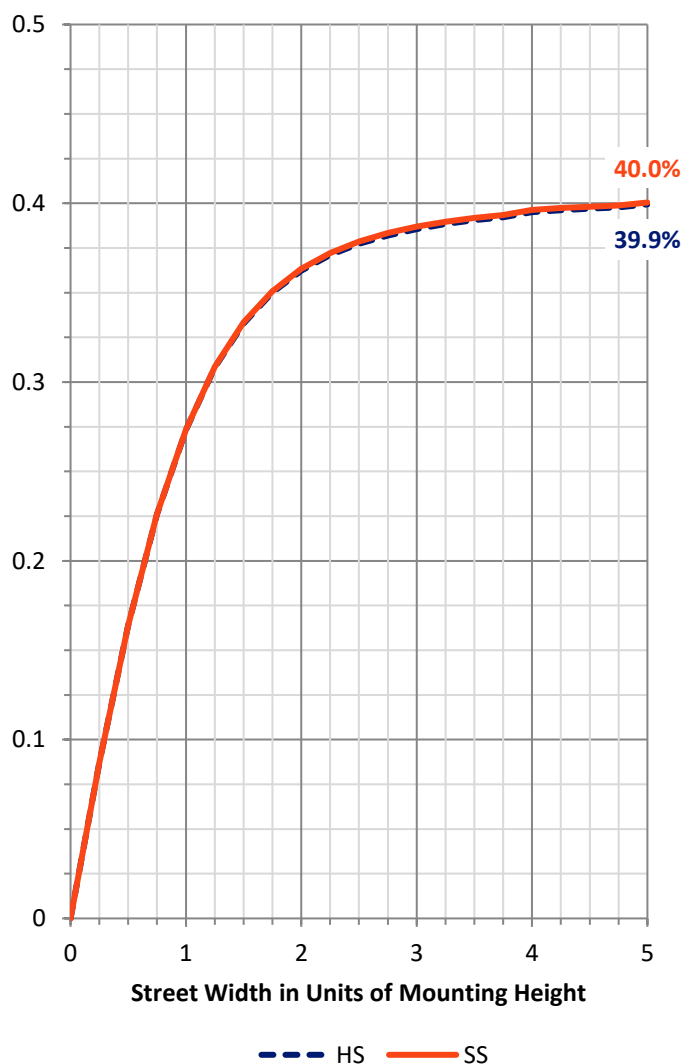
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1515.0	370.3	1885.3
	% Fixture	40.2	9.8	50.0
Street Side	Lumens	1515.0	370.3	1885.3
	% Fixture	40.2	9.8	50.0
Total	Lumens	3030.0	740.7	3770.7
	% Fixture	80.4	19.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.9
10°-20°	209.7	5.6
20°-30°	337.7	9.0
30°-40°	454.2	12.0
40°-50°	560.4	14.9
50°-60°	601.2	15.9
60°-70°	487.5	12.9
70°-80°	258.4	6.9
80°-90°	48.8	1.3
90°-100°	16.5	0.4
100°-110°	168.0	4.5
110°-120°	245.6	6.5
120°-130°	142.5	3.8
130°-140°	75.5	2.0
140°-150°	44.9	1.2
150°-160°	27.6	0.7
160°-170°	15.1	0.4
170°-180°	4.9	0.1
0°-90°	3030.0	80.4
0°-180°	3770.7	100.0

Coefficient of Utilization



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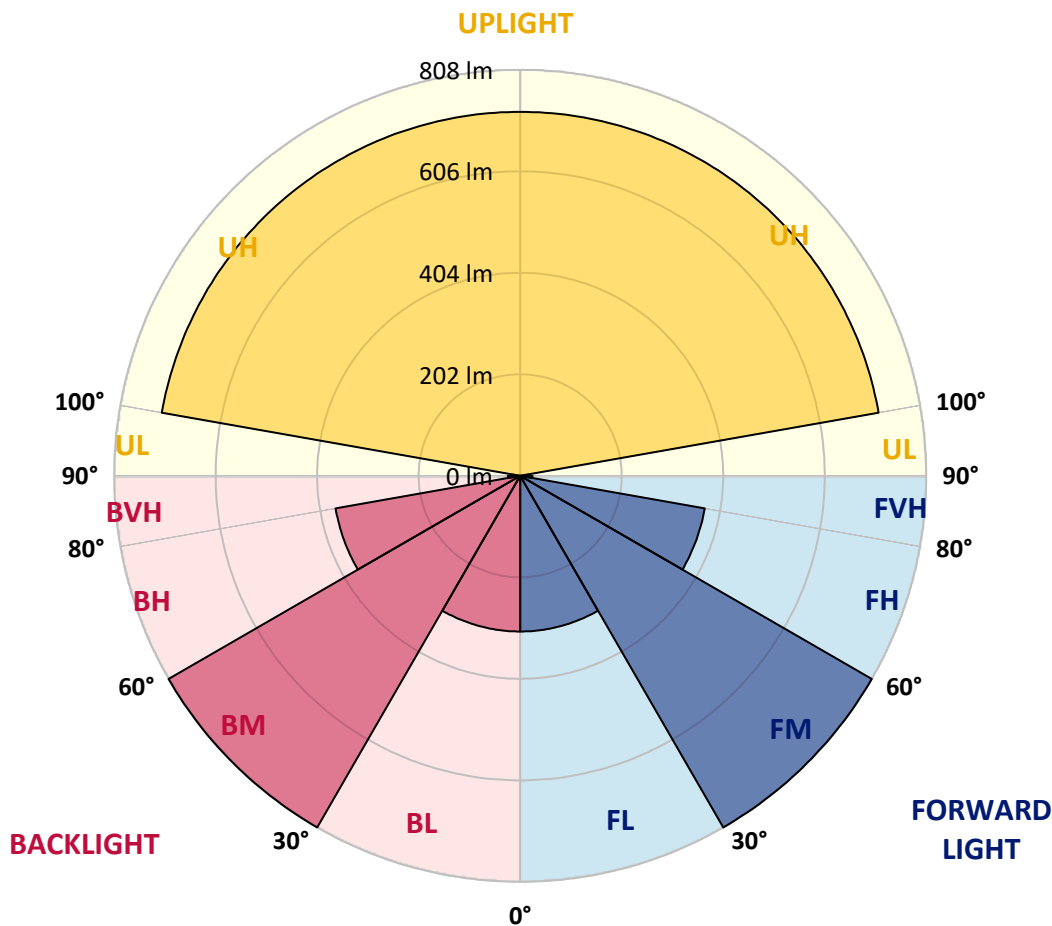
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.8	8.2			
FM (30°-60°)	807.9	21.4			
FH (60°-80°)	373.0	9.9			G0/660
FVH (80°-90°)	24.4	0.6			G1/100
BL (0°-30°)	309.8	8.2	B1/500		
BM (30°-60°)	807.9	21.4	B1/1000		
BH (60°-80°)	373.0	9.9	B1/500		G0/660
BVH (80°-90°)	24.4	0.6			G1/100
UL (90°-100°)	16.5	0.4		U2/50	
UH (100°-180°)	724.2	19.2		U4/1000	

BUG Rating: B1-U4-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°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)