

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: P833322

Luminaire Tested: **TTN-D1-830-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833322
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-MQ-CG-UPL3
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: 3795.7 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

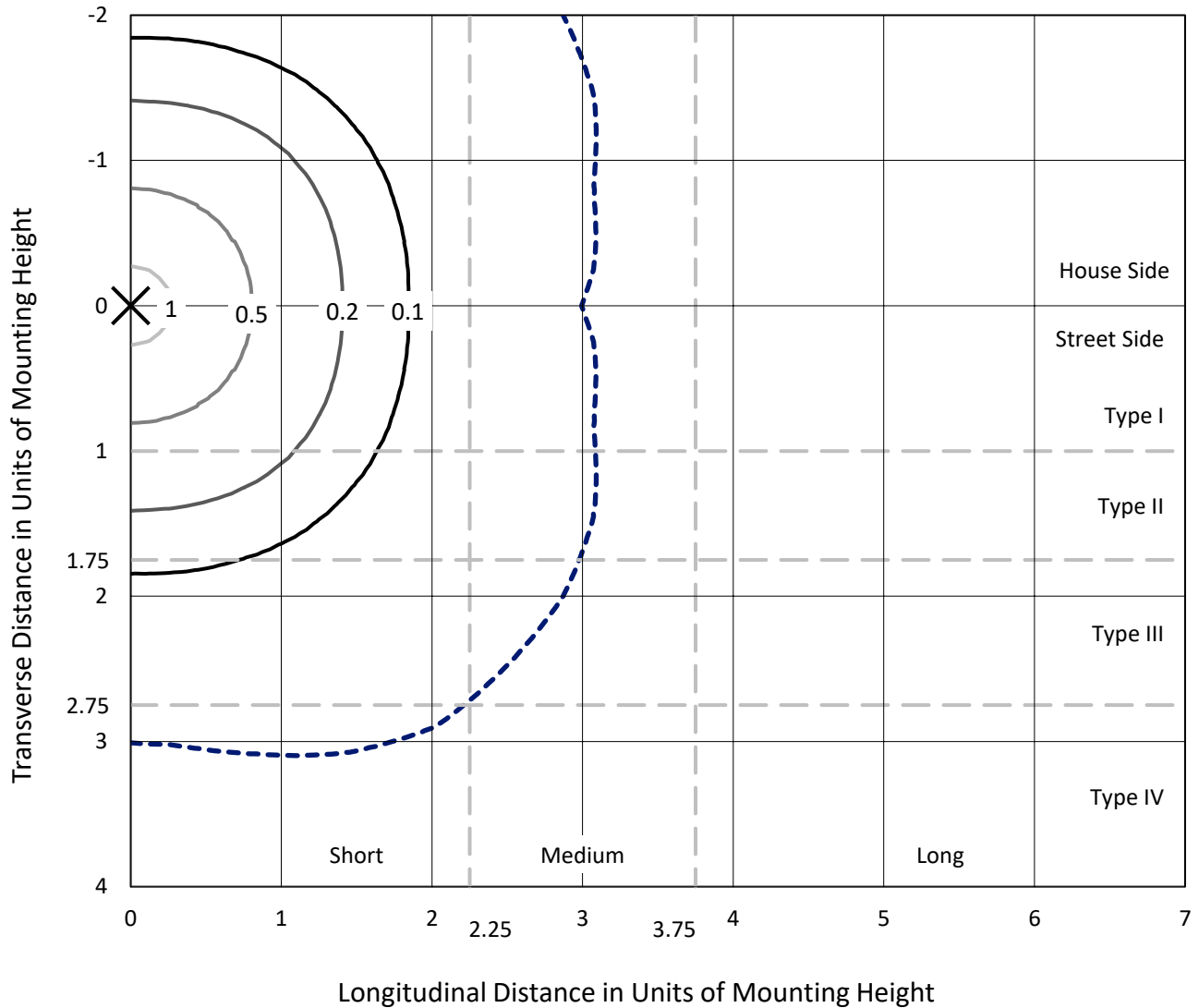
Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

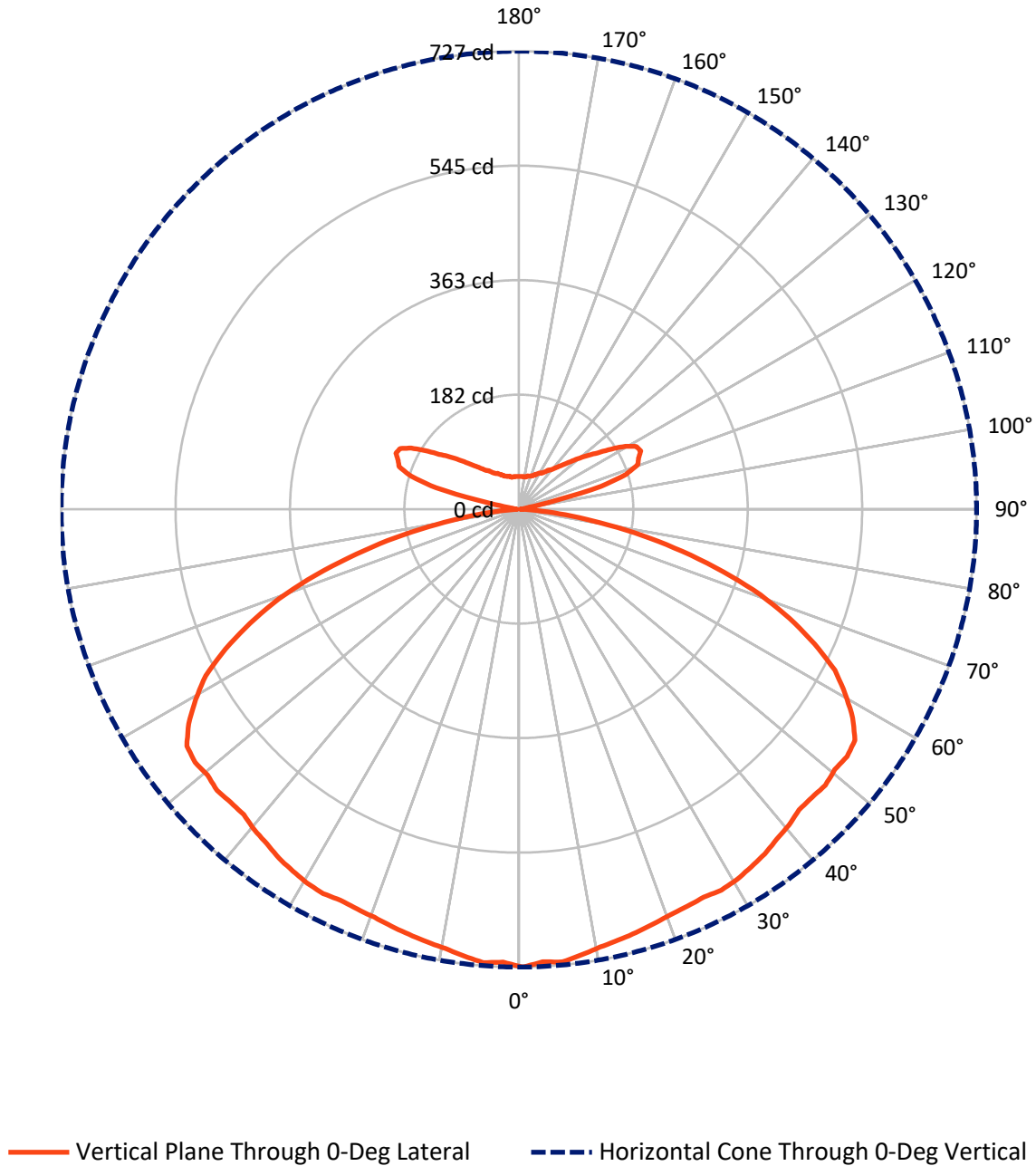
✕ Max cd
 - - - 1/2 Max cd



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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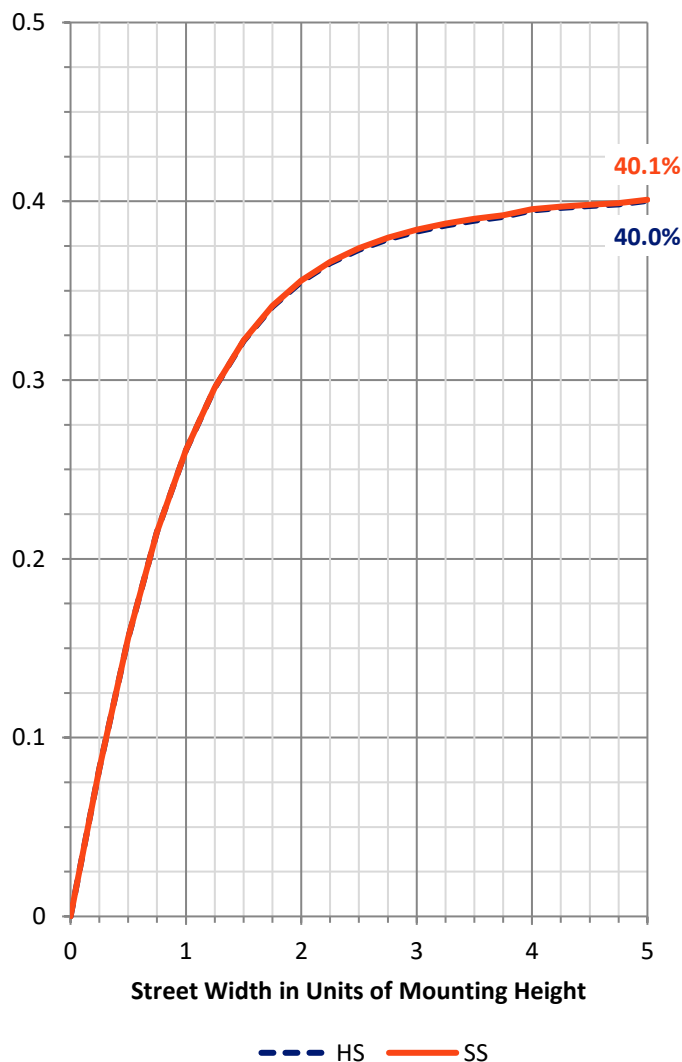
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1527.5	370.3	1897.8
	% Fixture	40.2	9.8	50.0
Street Side	Lumens	1527.5	370.3	1897.8
	% Fixture	40.2	9.8	50.0
Total	Lumens	3055.0	740.7	3795.7
	% Fixture	80.5	19.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.8
10°-20°	197.4	5.2
20°-30°	317.5	8.4
30°-40°	424.2	11.2
40°-50°	515.4	13.6
50°-60°	598.8	15.8
60°-70°	552.5	14.6
70°-80°	323.4	8.5
80°-90°	57.7	1.5
90°-100°	16.5	0.4
100°-110°	168.0	4.4
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°	3055.0	80.5
0°-180°	3795.7	100.0

Coefficient of Utilization



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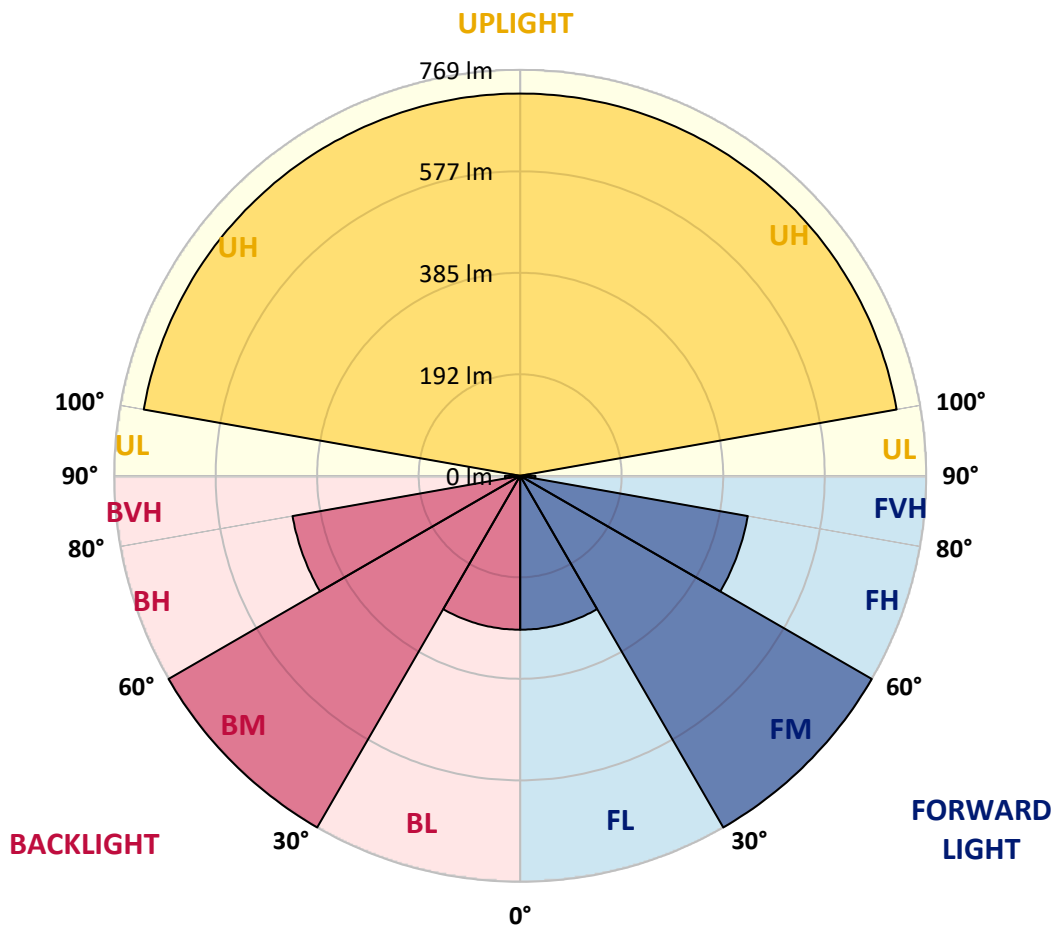
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.6	7.7			
FM (30°-60°)	769.2	20.3			
FH (60°-80°)	437.9	11.5			G0/660
FVH (80°-90°)	28.8	0.8			G1/100
BL (0°-30°)	291.6	7.7	B1/500		
BM (30°-60°)	769.2	20.3	B1/1000		
BH (60°-80°)	437.9	11.5	B1/500		G0/660
BVH (80°-90°)	28.8	0.8			G1/100
UL (90°-100°)	16.5	0.4		U2/50	
UH (100°-180°)	724.2	19.1		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°	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5
2.5°	719.1	721.6	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	721.6
5°	721.6	721.6	721.6	721.6	719.1	719.1	719.1	719.1	719.1	721.6	721.6
7.5°	714.1	714.1	714.1	714.1	714.1	711.7	714.1	714.1	714.1	714.1	714.1
10°	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7
12.5°	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	699.3	699.3
15°	696.8	696.8	696.8	696.8	699.3	699.3	696.8	696.8	696.8	696.8	696.8
17.5°	691.8	691.8	691.8	691.8	694.3	694.3	694.3	691.8	691.8	691.8	691.8
20°	686.9	686.9	686.9	686.9	689.3	689.3	689.3	689.3	689.3	686.9	686.9
22.5°	684.4	684.4	684.4	684.4	686.9	686.9	686.9	686.9	684.4	684.4	684.4
25°	681.9	684.4	684.4	684.4	686.9	689.3	689.3	686.9	684.4	681.9	681.9
27.5°	684.4	684.4	684.4	686.9	686.9	689.3	689.3	686.9	684.4	684.4	684.4
30°	681.9	681.9	681.9	684.4	686.9	689.3	686.9	686.9	684.4	681.9	681.9
32.5°	676.9	676.9	679.4	681.9	684.4	684.4	684.4	681.9	679.4	676.9	676.9
35°	672.0	672.0	672.0	674.5	679.4	679.4	679.4	676.9	674.5	672.0	669.5
37.5°	664.5	667.0	667.0	672.0	674.5	676.9	674.5	672.0	667.0	664.5	664.5
40°	659.6	659.6	662.1	667.0	672.0	672.0	669.5	667.0	662.1	659.6	659.6
42.5°	652.2	652.2	657.1	662.1	669.5	669.5	667.0	662.1	657.1	652.2	652.2
45°	652.2	652.2	657.1	667.0	672.0	676.9	672.0	667.0	657.1	652.2	649.7
47.5°	654.6	654.6	659.6	672.0	681.9	686.9	679.4	669.5	659.6	654.6	652.2
50°	649.7	652.2	662.1	674.5	686.9	689.3	686.9	672.0	662.1	649.7	649.7
52.5°	652.2	652.2	664.5	684.4	696.8	701.7	696.8	684.4	662.1	649.7	649.7
55°	647.2	644.7	662.1	684.4	704.2	714.1	704.2	684.4	659.6	644.7	642.2
57.5°	624.9	624.9	647.2	669.5	694.3	699.3	691.8	669.5	644.7	624.9	619.9
60°	595.1	597.6	619.9	644.7	667.0	669.5	664.5	644.7	619.9	597.6	590.2
62.5°	562.9	567.8	590.2	615.0	642.2	647.2	639.8	615.0	585.2	570.3	557.9
65°	515.8	523.2	548.0	575.3	605.0	602.6	602.6	572.8	550.5	525.7	513.3
67.5°	463.7	471.1	488.5	525.7	550.5	548.0	545.5	525.7	488.5	471.1	463.7
70°	406.7	411.6	429.0	466.2	488.5	491.0	483.5	463.7	429.0	416.6	404.2
72.5°	339.7	342.2	367.0	396.7	419.1	416.6	414.1	396.7	364.5	352.1	337.2
75°	267.8	270.3	292.6	319.9	337.2	334.8	332.3	319.9	292.6	277.7	265.3
77.5°	200.9	198.4	220.7	240.5	250.4	252.9	248.0	238.0	218.2	205.8	198.4
80°	131.4	128.9	148.8	163.7	171.1	171.1	168.6	161.2	146.3	136.4	131.4
82.5°	74.4	71.9	84.3	94.2	101.7	99.2	96.7	91.7	84.3	76.9	71.9
85°	27.3	27.3	34.7	39.7	44.6	44.6	42.2	39.7	32.2	29.8	27.3
87.5°	2.5	2.5	5.0	7.4	7.4	7.4	5.0	5.0	2.5	2.5	2.5
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)