

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: P832965

Luminaire Tested: **TTN-D0-830-U-MQ-UPL3**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832965  
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-UPL3  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

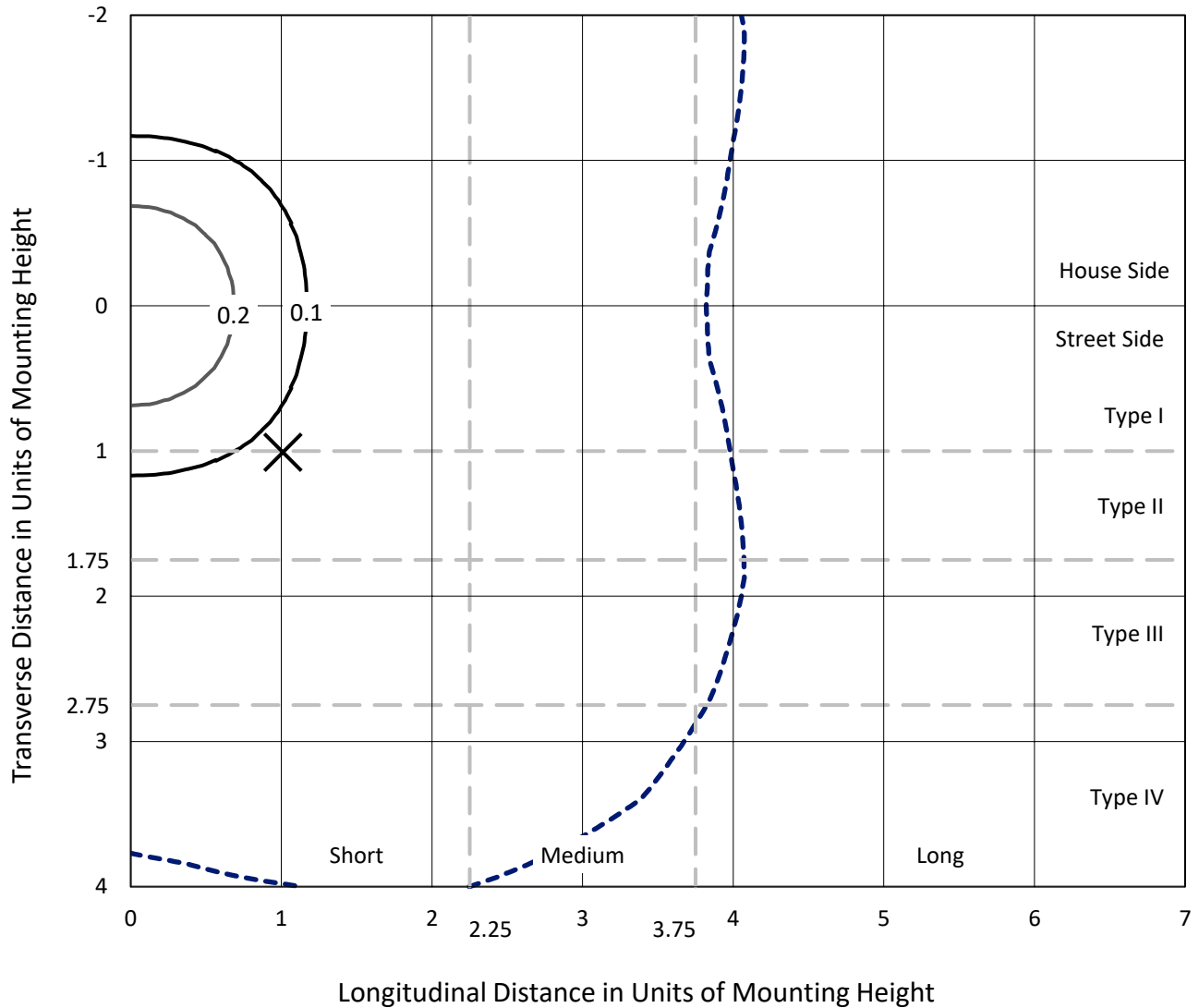
Lumens per Lamp: N/A  
Luminaire Lumens: 1883.7 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U4 - G1  
  
Input Watts (W): 17.7  
Input Voltage (V): NR  
Input Current (Ain): 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

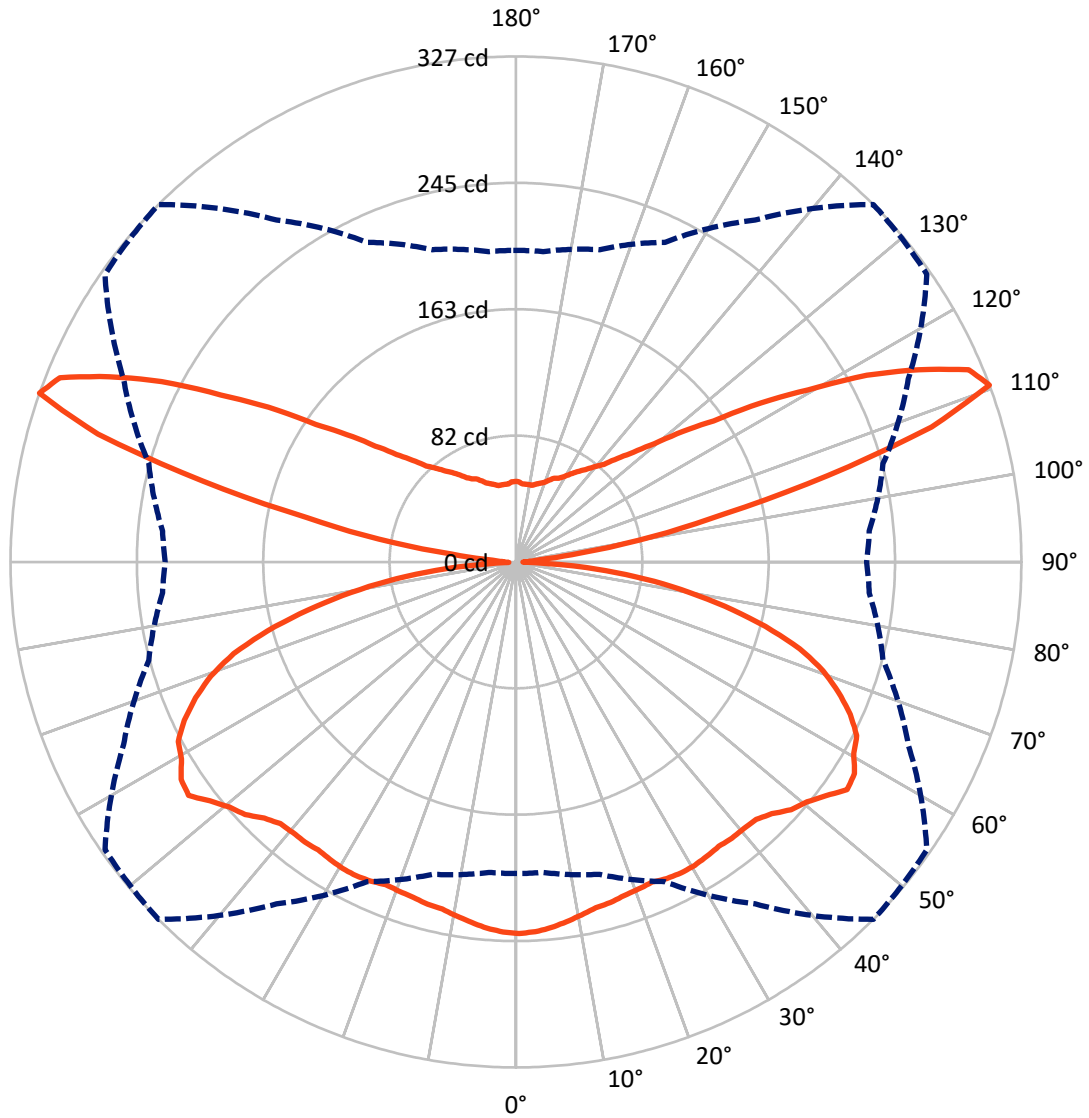
✕ Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 110-Deg Vertical

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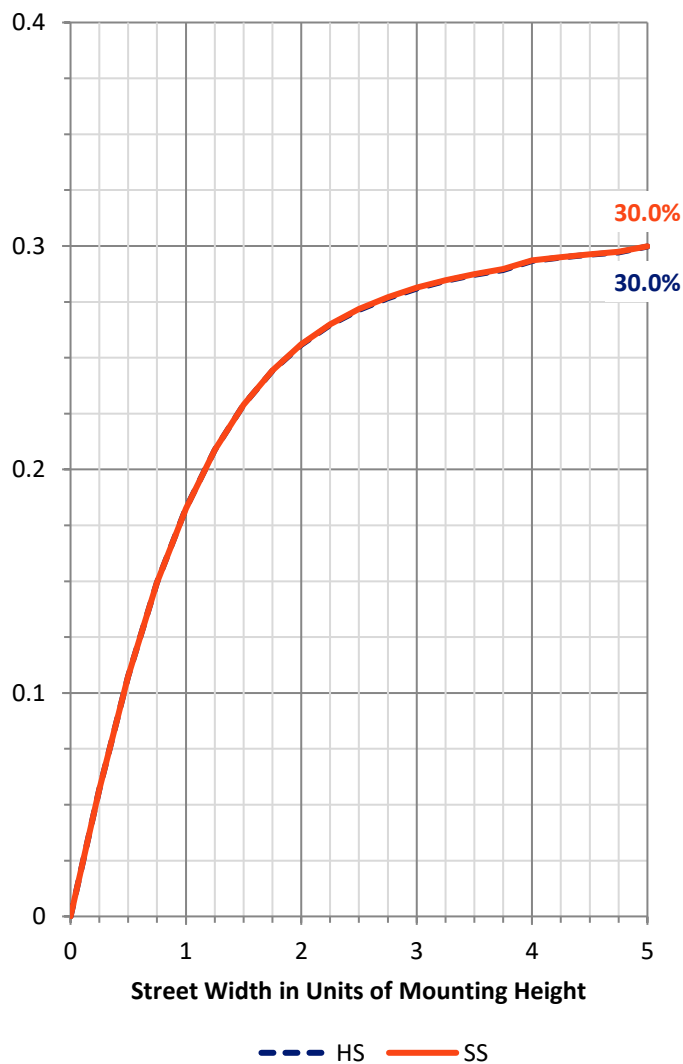
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	571.5	370.3	941.8
	% Fixture	30.3	19.7	50.0
<b>Street Side</b>	Lumens	571.5	370.3	941.8
	% Fixture	30.3	19.7	50.0
<b>Total</b>	Lumens	1143.0	740.7	1883.7
	% Fixture	60.7	39.3	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.5	1.2
10°-20°	64.6	3.4
20°-30°	104.3	5.5
30°-40°	141.2	7.5
40°-50°	176.8	9.4
50°-60°	216.7	11.5
60°-70°	217.3	11.5
70°-80°	156.8	8.3
80°-90°	42.8	2.3
90°-100°	16.5	0.9
100°-110°	168.0	8.9
110°-120°	245.6	13.0
120°-130°	142.5	7.6
130°-140°	75.5	4.0
140°-150°	44.9	2.4
150°-160°	27.6	1.5
160°-170°	15.1	0.8
170°-180°	4.9	0.3
0°-90°	1143.0	60.7
0°-180°	1883.7	100.0

**Coefficient of Utilization**



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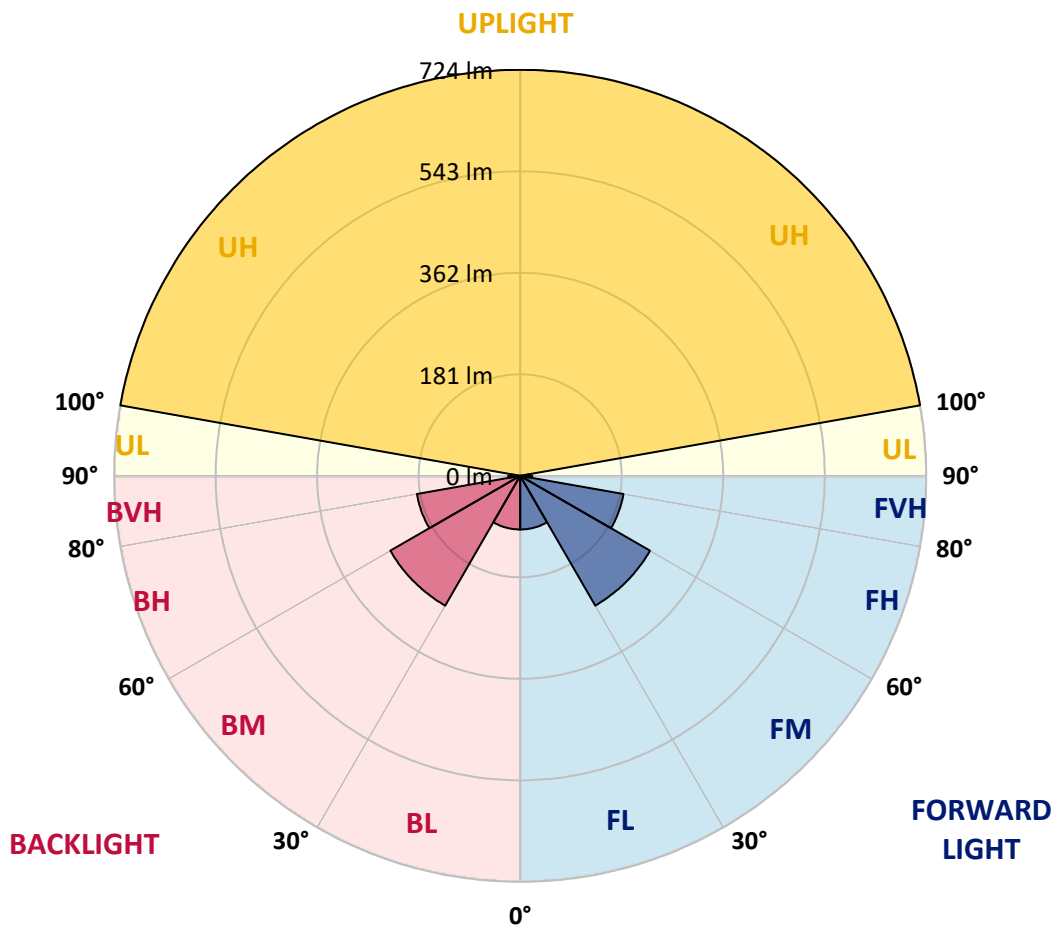
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.7	5.1			
FM (30°-60°)	267.4	14.2			
FH (60°-80°)	187.0	9.9			G0/660
FVH (80°-90°)	21.4	1.1			G1/100
BL (0°-30°)	95.7	5.1	B0/110		
BM (30°-60°)	267.4	14.2	B1/1000		
BH (60°-80°)	187.0	9.9	B1/500		G0/660
BVH (80°-90°)	21.4	1.1			G1/100
UL (90°-100°)	16.5	0.9		U2/50	
UH (100°-180°)	724.2	38.4		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°	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3
2.5°	239.4	239.4	239.4	238.5	239.4	239.4	239.4	239.4	239.4	239.4	239.4
5°	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6
7.5°	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9	234.9
10°	231.3	231.3	231.3	231.3	232.2	232.2	232.2	232.2	231.3	231.3	231.3
12.5°	228.6	228.6	228.6	229.5	229.5	229.5	229.5	229.5	229.5	229.5	228.6
15°	227.7	227.7	227.7	227.7	228.6	228.6	228.6	228.6	227.7	227.7	227.7
17.5°	225.9	225.9	225.9	226.8	226.8	226.8	226.8	226.8	225.9	225.9	225.9
20°	224.1	224.1	225.0	225.0	225.9	225.9	225.9	225.0	225.0	224.1	225.0
22.5°	224.1	224.1	224.1	225.0	225.0	225.0	225.0	224.1	224.1	224.1	224.1
25°	224.1	224.1	225.0	225.9	225.9	226.8	225.9	225.0	224.1	224.1	224.1
27.5°	225.0	225.0	225.9	226.8	226.8	227.7	226.8	225.9	225.0	225.0	225.0
30°	225.0	225.0	225.9	226.8	226.8	227.7	226.8	225.9	225.0	225.0	225.0
32.5°	223.2	224.1	225.0	225.9	226.8	226.8	226.8	225.9	225.0	224.1	224.1
35°	222.3	223.2	224.1	225.0	225.9	225.9	225.9	225.0	224.1	223.2	223.2
37.5°	221.4	221.4	223.2	224.1	225.0	226.8	225.9	224.1	223.2	222.3	222.3
40°	220.5	221.4	222.3	224.1	225.0	226.8	225.9	224.1	222.3	221.4	221.4
42.5°	220.5	220.5	222.3	224.1	225.9	227.7	226.8	225.0	222.3	221.4	220.5
45°	221.4	222.3	225.0	228.6	230.4	232.2	231.3	228.6	224.1	222.3	221.4
47.5°	225.0	225.9	228.6	232.2	236.7	239.4	236.7	232.2	228.6	225.9	225.0
50°	226.8	227.7	232.2	236.7	243.0	243.9	243.0	236.7	232.2	227.7	227.7
52.5°	230.4	230.4	235.8	243.9	249.2	251.0	249.2	244.8	235.8	231.3	230.4
55°	231.3	231.3	237.6	247.4	255.5	260.0	255.5	248.3	238.5	232.2	232.2
57.5°	225.9	227.7	235.8	245.6	255.5	258.2	255.5	246.5	236.7	228.6	227.7
60°	219.6	222.3	229.5	241.2	248.3	251.0	249.2	241.2	230.4	222.3	221.4
62.5°	213.4	217.0	225.0	234.0	244.8	247.4	244.8	234.0	225.0	217.0	213.4
65°	199.9	203.5	215.2	225.9	235.8	237.6	236.7	225.9	215.2	203.5	201.7
67.5°	186.5	189.2	197.2	214.3	222.3	225.0	223.2	213.4	198.1	189.2	188.3
70°	172.1	174.8	182.0	198.1	206.2	210.7	207.1	198.1	182.0	174.8	173.9
72.5°	153.3	156.9	165.0	179.3	187.4	191.9	188.3	179.3	165.0	156.0	154.2
75°	130.9	133.6	143.4	155.1	163.2	166.8	164.1	156.0	143.4	133.6	132.7
77.5°	106.7	109.4	118.3	130.0	134.5	138.1	135.4	129.1	118.3	109.4	108.5
80°	80.7	83.4	91.4	100.4	104.9	108.5	105.8	99.5	91.4	83.4	82.5
82.5°	52.9	55.6	62.8	69.9	74.4	78.0	75.3	69.0	63.7	55.6	54.7
85°	22.4	25.1	31.4	38.6	42.1	45.7	43.0	37.7	31.4	26.0	25.1
87.5°	1.8	2.7	2.7	3.6	2.7	4.5	2.7	2.7	2.7	2.7	2.7
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)