

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: P832815

Luminaire Tested: **TTN-D0-735-U-MQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832815
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-D0-735-U-MQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1961.7 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

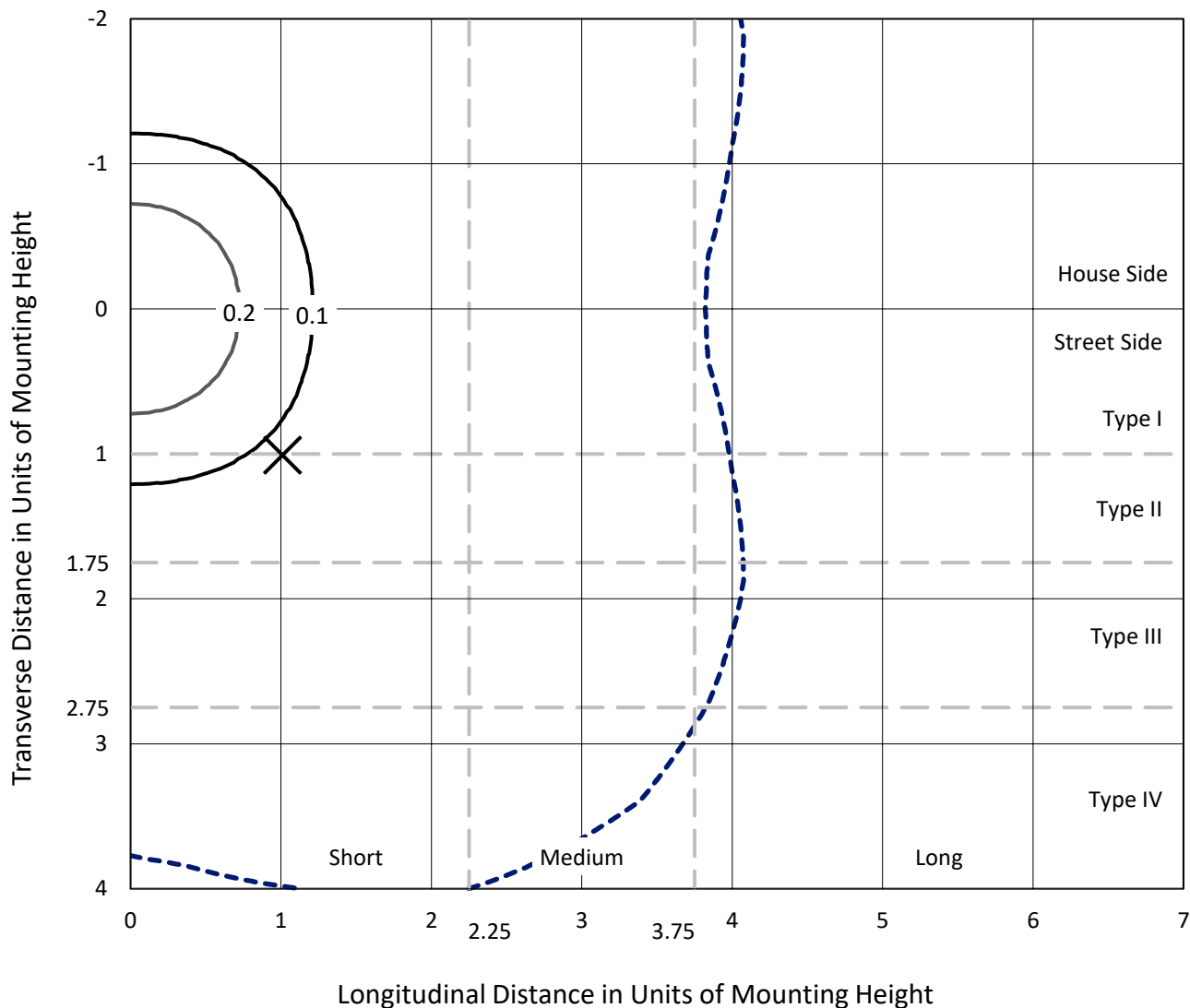
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

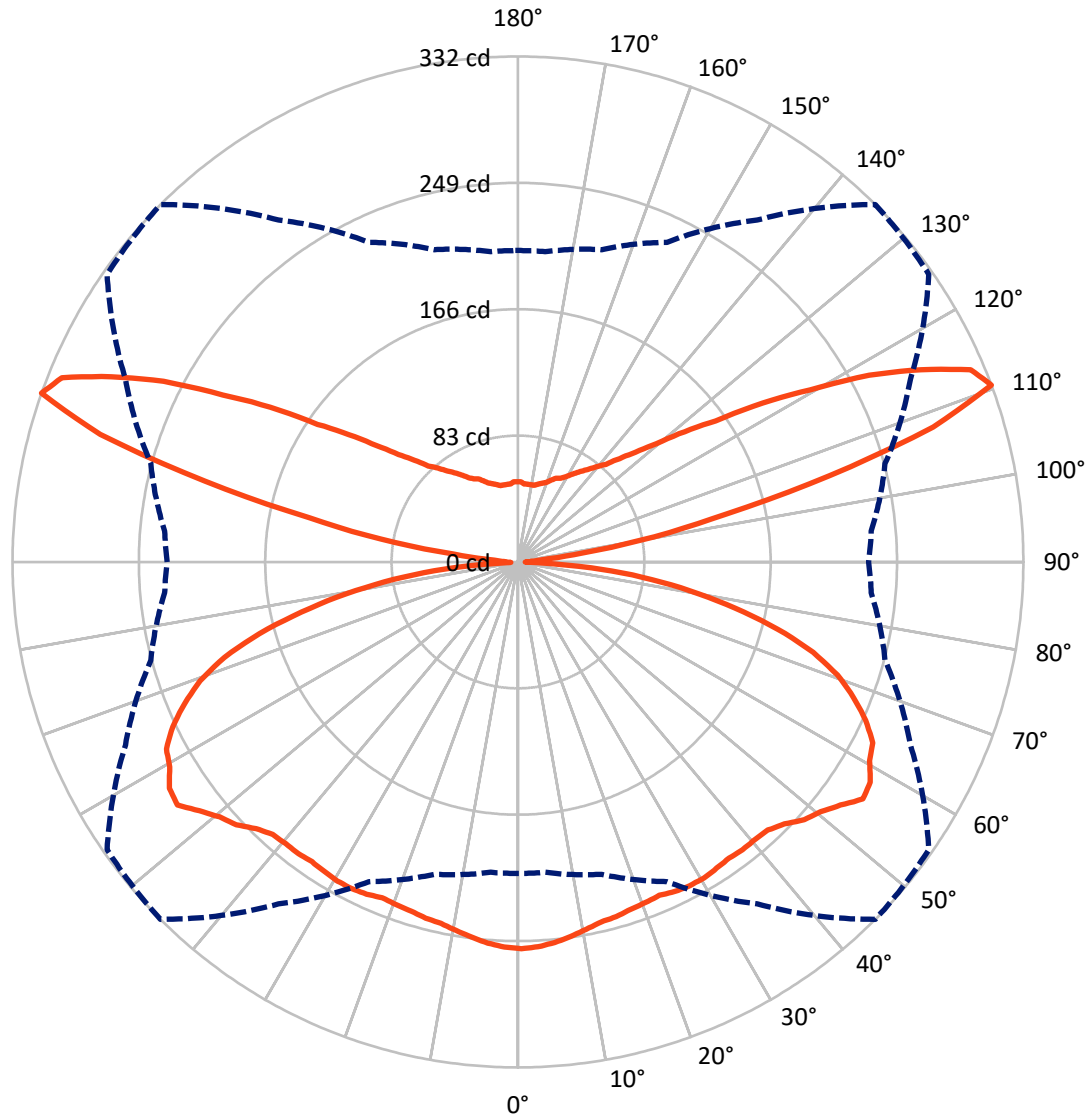
✕ Max cd
 - - - 1/2 Max cd



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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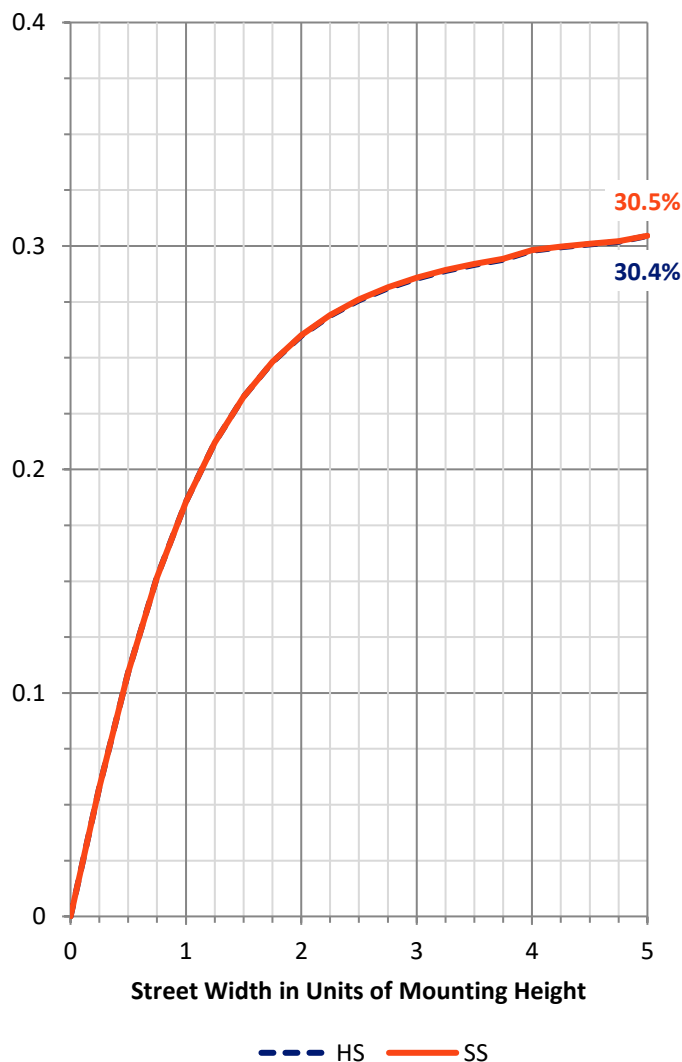
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.5	376.3	980.8
	% Fixture	30.8	19.2	50.0
Street Side	Lumens	604.5	376.3	980.8
	% Fixture	30.8	19.2	50.0
Total	Lumens	1209.0	752.7	1961.7
	% Fixture	61.6	38.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	1.2
10°-20°	68.3	3.5
20°-30°	110.4	5.6
30°-40°	149.3	7.6
40°-50°	187.1	9.5
50°-60°	229.3	11.7
60°-70°	229.8	11.7
70°-80°	165.8	8.5
80°-90°	45.2	2.3
90°-100°	16.8	0.9
100°-110°	170.7	8.7
110°-120°	249.6	12.7
120°-130°	144.9	7.4
130°-140°	76.7	3.9
140°-150°	45.6	2.3
150°-160°	28.1	1.4
160°-170°	15.3	0.8
170°-180°	5.0	0.3
0°-90°	1209.0	61.6
0°-180°	1961.7	100.0

Coefficient of Utilization



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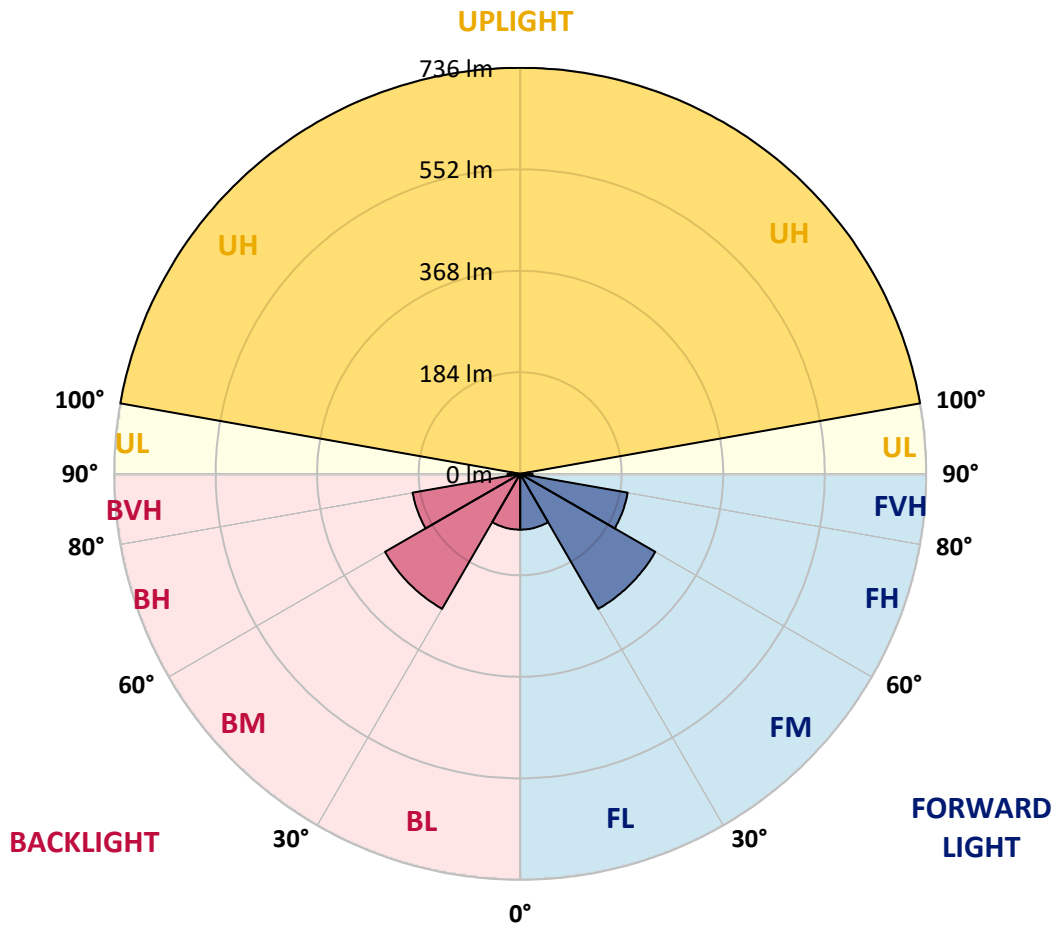
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.2	5.2			
FM (30°-60°)	282.8	14.4			
FH (60°-80°)	197.8	10.1			G0/660
FVH (80°-90°)	22.6	1.2			G1/100
BL (0°-30°)	101.2	5.2	B0/110		
BM (30°-60°)	282.8	14.4	B1/1000		
BH (60°-80°)	197.8	10.1	B1/500		G0/660
BVH (80°-90°)	22.6	1.2			G1/100
UL (90°-100°)	16.8	0.9		U2/50	
UH (100°-180°)	735.8	37.5		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°	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2
2.5°	253.2	253.2	253.2	252.3	253.2	253.2	253.2	253.2	253.2	253.2	253.2
5°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3
7.5°	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
10°	244.7	244.7	244.7	244.7	245.6	245.6	245.6	245.6	244.7	244.7	244.7
12.5°	241.8	241.8	241.8	242.8	242.8	242.8	242.8	242.8	242.8	242.8	241.8
15°	240.9	240.9	240.9	240.9	241.8	241.8	241.8	241.8	240.9	240.9	240.9
17.5°	239.0	239.0	239.0	239.9	239.9	239.9	239.9	239.9	239.0	239.0	239.0
20°	237.1	237.1	238.0	238.0	239.0	239.0	239.0	238.0	238.0	237.1	238.0
22.5°	237.1	237.1	237.1	238.0	238.0	238.0	238.0	237.1	237.1	237.1	237.1
25°	237.1	237.1	238.0	239.0	239.0	239.9	239.0	238.0	237.1	237.1	237.1
27.5°	238.0	238.0	239.0	239.9	239.9	240.9	239.9	239.0	238.0	238.0	238.0
30°	238.0	238.0	239.0	239.9	239.9	240.9	239.9	239.0	238.0	238.0	238.0
32.5°	236.1	237.1	238.0	239.0	239.9	239.9	239.9	239.0	238.0	237.1	237.1
35°	235.2	236.1	237.1	238.0	239.0	239.0	239.0	238.0	237.1	236.1	236.1
37.5°	234.2	234.2	236.1	237.1	238.0	239.9	239.0	237.1	236.1	235.2	235.2
40°	233.3	234.2	235.2	237.1	238.0	239.9	239.0	237.1	235.2	234.2	234.2
42.5°	233.3	233.3	235.2	237.1	239.0	240.9	239.9	238.0	235.2	234.2	233.3
45°	234.2	235.2	238.0	241.8	243.7	245.6	244.7	241.8	237.1	235.2	234.2
47.5°	238.0	239.0	241.8	245.6	250.4	253.2	250.4	245.6	241.8	239.0	238.0
50°	239.9	240.9	245.6	250.4	257.0	257.9	257.0	250.4	245.6	240.9	240.9
52.5°	243.7	243.7	249.4	257.9	263.6	265.5	263.6	258.9	249.4	244.7	243.7
55°	244.7	244.7	251.3	261.7	270.3	275.0	270.3	262.7	252.3	245.6	245.6
57.5°	239.0	240.9	249.4	259.8	270.3	273.1	270.3	260.8	250.4	241.8	240.9
60°	232.3	235.2	242.8	255.1	262.7	265.5	263.6	255.1	243.7	235.2	234.2
62.5°	225.7	229.5	238.0	247.5	258.9	261.7	258.9	247.5	238.0	229.5	225.7
65°	211.5	215.3	227.6	239.0	249.4	251.3	250.4	239.0	227.6	215.3	213.4
67.5°	197.3	200.1	208.6	226.7	235.2	238.0	236.1	225.7	209.6	200.1	199.2
70°	182.1	184.9	192.5	209.6	218.1	222.9	219.1	209.6	192.5	184.9	184.0
72.5°	162.2	166.0	174.5	189.7	198.2	202.9	199.2	189.7	174.5	165.0	163.1
75°	138.5	141.3	151.7	164.1	172.6	176.4	173.5	165.0	151.7	141.3	140.4
77.5°	112.9	115.7	125.2	137.5	142.3	146.0	143.2	136.6	125.2	115.7	114.7
80°	85.4	88.2	96.7	106.2	111.0	114.7	111.9	105.3	96.7	88.2	87.2
82.5°	56.0	58.8	66.4	74.0	78.7	82.5	79.7	73.0	67.3	58.8	57.8
85°	23.7	26.6	33.2	40.8	44.6	48.4	45.5	39.8	33.2	27.5	26.6
87.5°	1.9	2.8	2.8	3.8	2.8	4.7	2.8	2.8	2.8	2.8	2.8
90°	6.4	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	6.4
92.5°	6.4	6.4	6.4	9.0	10.3	9.0	10.3	7.7	7.7	6.4	6.4
95°	7.7	7.7	9.0	11.6	14.2	15.5	15.5	9.0	9.0	7.7	7.7
97.5°	10.3	11.6	11.6	14.2	23.2	42.5	25.8	12.9	12.9	11.6	10.3
100°	16.7	18.0	18.0	32.2	68.2	91.4	65.7	33.5	24.5	18.0	18.0
102.5°	54.1	56.7	69.5	104.3	154.5	140.4	118.5	112.0	77.3	61.8	59.2
105°	137.8	136.5	146.8	173.8	216.3	212.5	195.7	177.7	153.2	141.6	141.6
107.5°	181.6	181.6	190.6	213.8	245.9	287.1	291.0	230.5	202.2	189.3	188.0
110°	204.7	204.7	212.5	231.8	274.3	332.2	329.6	284.6	249.8	233.1	230.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.9	211.2	221.5	251.1	297.5	323.2	311.6	293.6	278.1	265.3	262.7
115°	217.6	217.6	229.2	257.5	283.3	293.6	280.7	266.5	256.2	251.1	253.7
117.5°	215.0	218.9	221.5	236.9	253.7	261.4	255.0	235.6	227.9	225.3	221.5
120°	199.6	199.6	202.2	209.9	218.9	222.8	220.2	207.3	200.9	199.6	197.0
122.5°	177.7	179.0	177.7	181.6	188.0	191.9	189.3	179.0	176.4	176.4	173.8
125°	155.8	155.8	154.5	157.1	161.0	159.7	161.0	155.8	154.5	154.5	153.2
127.5°	140.4	139.1	136.5	137.8	139.1	139.1	140.4	135.2	136.5	137.8	136.5
130°	124.9	124.9	122.3	122.3	122.3	119.8	122.3	119.8	121.0	122.3	123.6
132.5°	110.7	110.7	106.9	105.6	105.6	105.6	106.9	105.6	108.2	110.7	110.7
135°	99.2	99.2	95.3	96.6	96.6	95.3	96.6	95.3	97.9	99.2	99.2
137.5°	90.1	90.1	87.6	87.6	87.6	86.3	87.6	87.6	88.8	91.4	92.7
140°	82.4	82.4	81.1	81.1	79.8	81.1	81.1	81.1	82.4	83.7	83.7
142.5°	78.5	77.3	76.0	74.7	76.0	76.0	76.0	74.7	76.0	78.5	78.5
145°	72.1	72.1	70.8	70.8	70.8	72.1	70.8	70.8	72.1	72.1	73.4
147.5°	68.2	68.2	67.0	68.2	68.2	68.2	68.2	67.0	68.2	68.2	69.5
150°	67.0	65.7	64.4	65.7	65.7	64.4	64.4	64.4	64.4	65.7	65.7
152.5°	63.1	63.1	61.8	63.1	61.8	61.8	61.8	61.8	61.8	63.1	64.4
155°	60.5	60.5	59.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
157.5°	57.9	59.2	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.2	59.2
160°	56.7	56.7	56.7	56.7	55.4	55.4	55.4	56.7	56.7	56.7	57.9
162.5°	55.4	55.4	55.4	55.4	54.1	54.1	54.1	54.1	55.4	55.4	56.7
165°	55.4	54.1	54.1	54.1	52.8	52.8	52.8	52.8	54.1	55.4	54.1
167.5°	52.8	52.8	52.8	52.8	52.8	51.5	51.5	52.8	52.8	52.8	54.1
170°	52.8	52.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.8
172.5°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	51.5	51.5	52.8	52.8
175°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	52.8	52.8	52.8	51.5
177.5°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8	52.8	52.8	52.8
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

(END OF REPORT)