

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: P832830

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832830
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-WQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1905.7 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

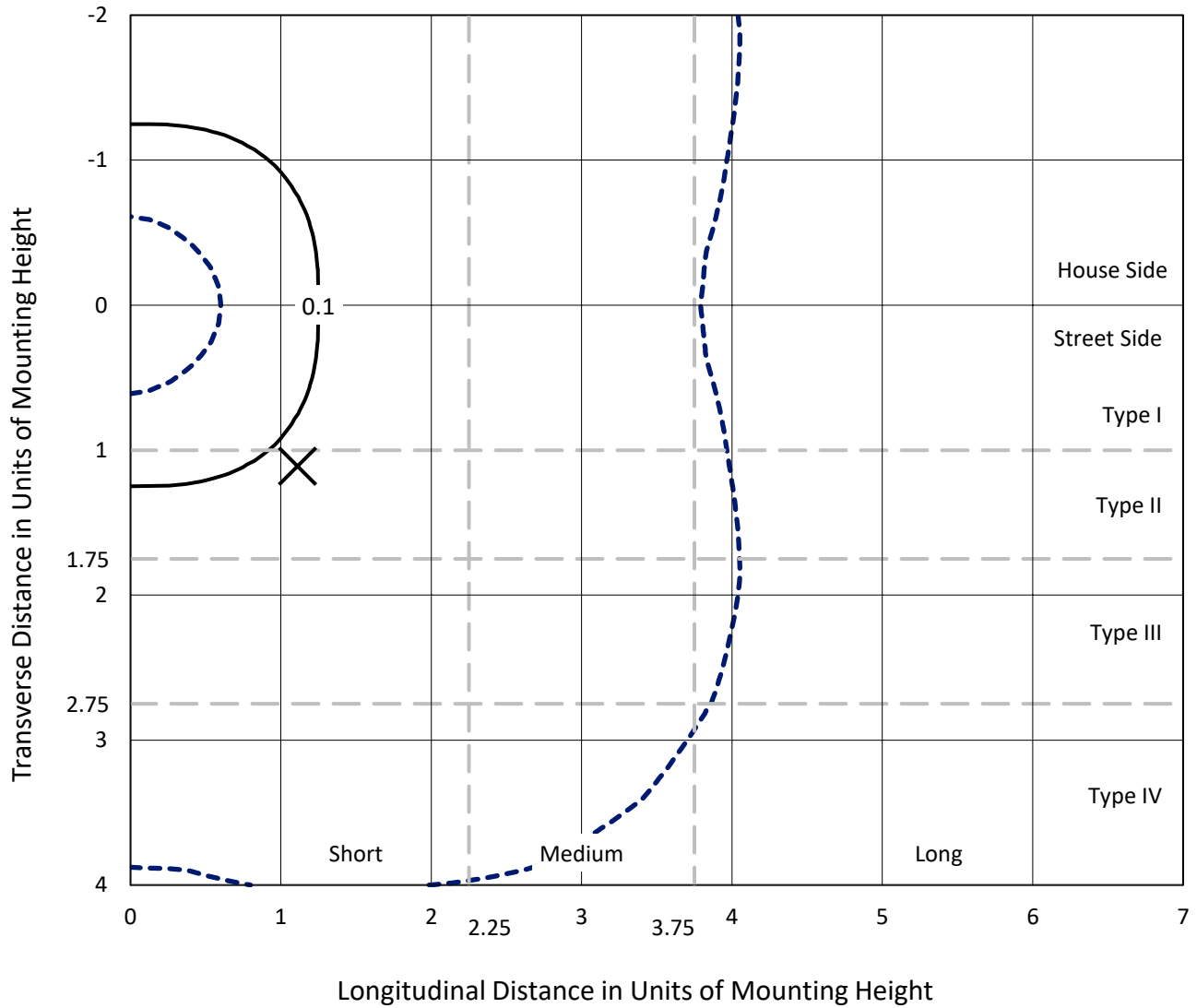
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

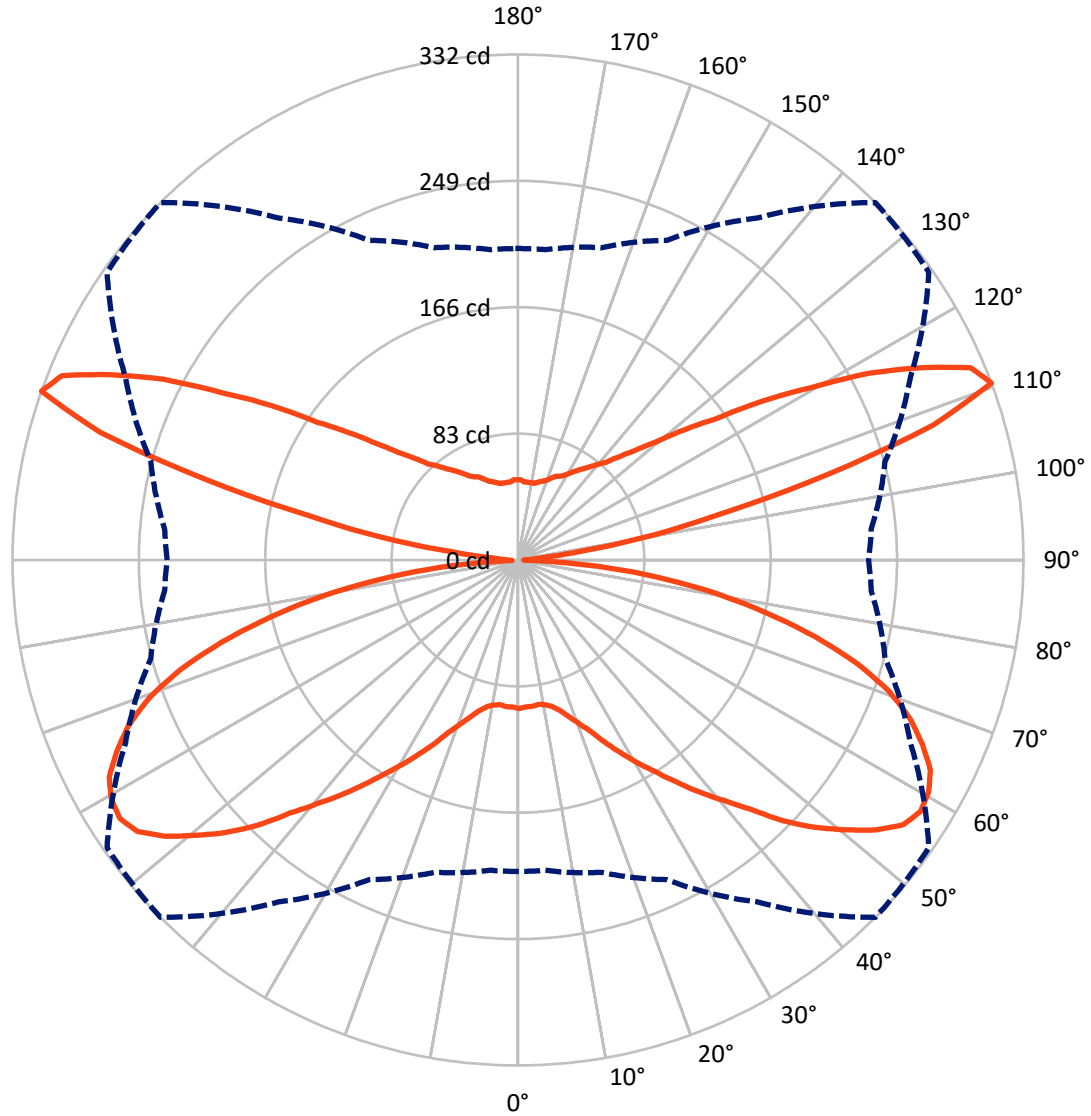
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 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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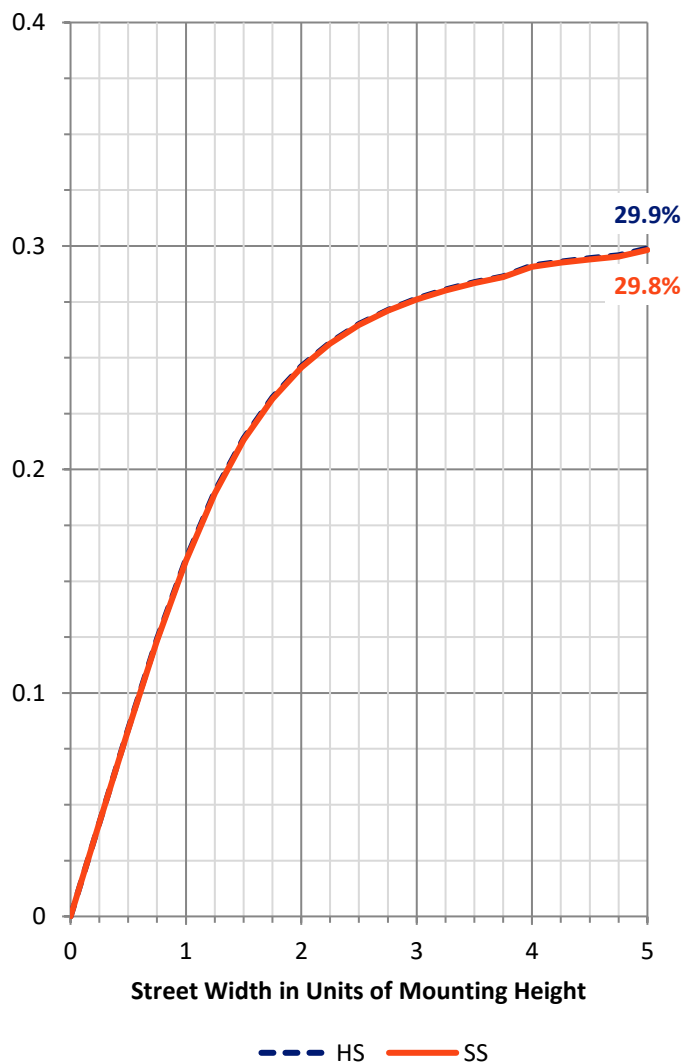
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.5	376.3	952.8
	% Fixture	30.3	19.7	50.0
Street Side	Lumens	576.5	376.3	952.8
	% Fixture	30.3	19.7	50.0
Total	Lumens	1153.0	752.7	1905.7
	% Fixture	60.5	39.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.5
10°-20°	29.3	1.5
20°-30°	61.5	3.2
30°-40°	111.5	5.9
40°-50°	181.7	9.5
50°-60°	254.4	13.3
60°-70°	265.6	13.9
70°-80°	189.8	10.0
80°-90°	50.1	2.6
90°-100°	16.8	0.9
100°-110°	170.7	9.0
110°-120°	249.6	13.1
120°-130°	144.9	7.6
130°-140°	76.7	4.0
140°-150°	45.6	2.4
150°-160°	28.1	1.5
160°-170°	15.3	0.8
170°-180°	5.0	0.3
0°-90°	1153.0	60.5
0°-180°	1905.7	100.0

Coefficient of Utilization



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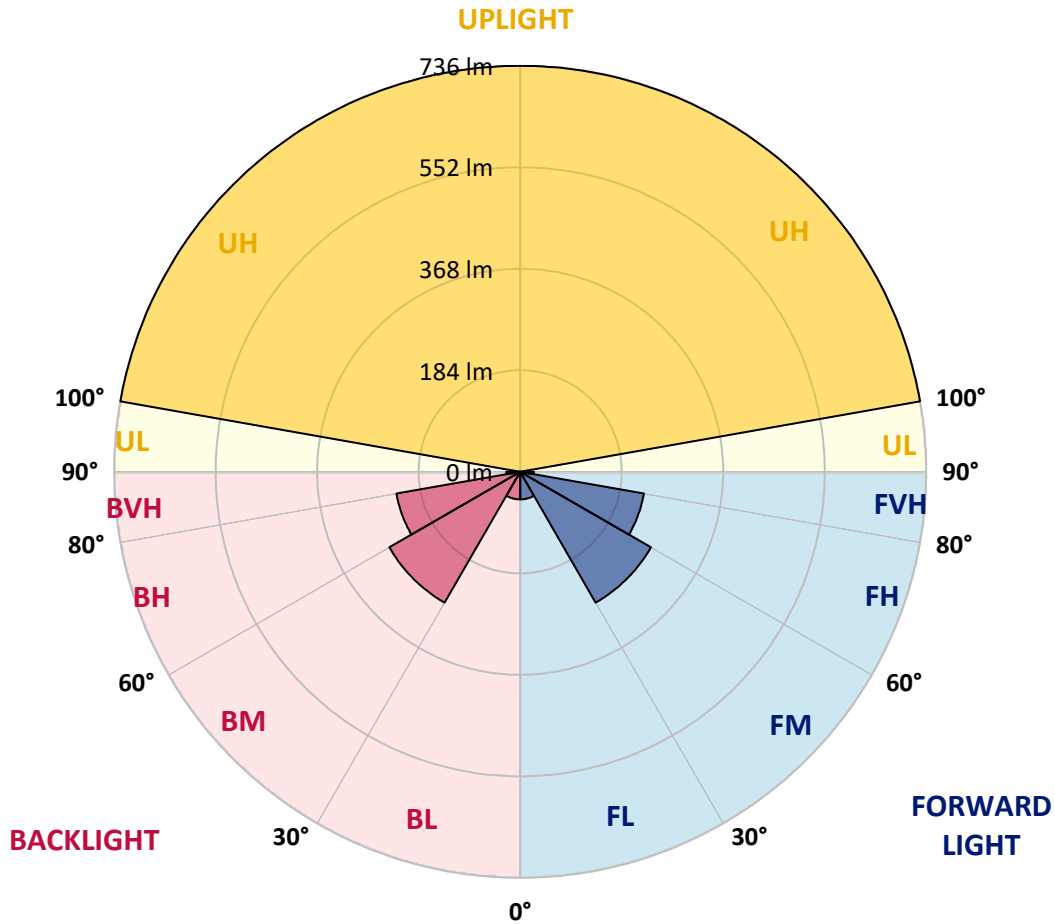
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.0	2.6			
FM (30°-60°)	273.8	14.4			
FH (60°-80°)	227.7	11.9			G0/660
FVH (80°-90°)	25.1	1.3			G1/100
BL (0°-30°)	50.0	2.6	B0/110		
BM (30°-60°)	273.8	14.4	B1/1000		
BH (60°-80°)	227.7	11.9	B1/500		G0/660
BVH (80°-90°)	25.1	1.3			G1/100
UL (90°-100°)	16.8	0.9		U2/50	
UH (100°-180°)	735.8	38.6		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°	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2.5°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
5°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
7.5°	94.8	94.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
10°	94.8	94.8	95.8	95.8	96.7	96.7	96.7	95.8	95.8	94.8	94.8
12.5°	96.7	96.7	96.7	97.6	98.6	98.6	98.6	97.6	97.6	96.7	96.7
15°	99.5	100.5	100.5	101.4	102.4	102.4	102.4	101.4	101.4	100.5	100.5
17.5°	105.2	105.2	105.2	106.2	107.1	108.1	108.1	106.2	106.2	105.2	106.2
20°	110.9	111.9	111.9	112.8	113.8	114.7	113.8	112.8	111.9	111.9	111.9
22.5°	119.5	119.5	120.4	120.4	122.3	122.3	122.3	120.4	120.4	120.4	120.4
25°	128.9	128.9	129.9	130.8	132.7	132.7	131.8	129.9	129.9	129.9	130.8
27.5°	140.3	140.3	141.3	141.3	143.2	143.2	142.2	141.3	141.3	141.3	142.2
30°	150.7	150.7	152.6	153.6	154.5	154.5	154.5	152.6	152.6	151.7	151.7
32.5°	160.2	161.2	162.1	165.0	166.9	165.9	166.9	165.0	163.1	162.1	162.1
35°	170.6	171.6	173.5	176.3	179.2	179.2	179.2	176.3	174.4	172.5	173.5
37.5°	183.0	183.0	185.8	188.7	192.5	193.4	192.5	189.6	186.8	184.9	184.9
40°	196.2	196.2	199.1	201.9	206.7	207.6	206.7	202.9	199.1	198.1	198.1
42.5°	209.5	209.5	213.3	216.2	221.8	223.7	221.8	217.1	213.3	210.5	211.4
45°	223.7	224.7	229.4	235.1	241.7	244.6	241.7	236.1	230.4	224.7	224.7
47.5°	239.9	239.9	245.5	252.2	259.8	262.6	258.8	253.1	245.5	240.8	240.8
50°	250.3	251.2	258.8	267.3	276.8	278.7	275.9	267.3	258.8	252.2	251.2
52.5°	260.7	261.7	270.2	282.5	292.0	294.8	291.0	282.5	270.2	261.7	261.7
55°	267.3	269.2	278.7	292.0	302.4	307.2	301.5	292.0	277.8	268.3	267.3
57.5°	268.3	270.2	279.7	295.8	306.2	311.9	307.2	294.8	279.7	269.2	268.3
60°	266.4	267.3	276.8	293.9	306.2	310.0	306.2	292.9	275.9	267.3	265.5
62.5°	261.7	263.6	273.0	287.3	301.5	304.3	300.5	286.3	272.1	261.7	259.8
65°	246.5	248.4	262.6	276.8	289.2	292.0	289.2	276.8	261.7	246.5	244.6
67.5°	229.4	230.4	244.6	261.7	273.0	277.8	273.0	262.6	243.6	229.4	227.5
70°	211.4	212.4	223.7	241.7	253.1	258.8	254.1	242.7	222.8	210.5	209.5
72.5°	190.6	190.6	201.9	216.2	227.5	233.2	229.4	215.2	200.0	187.7	185.8
75°	162.1	163.1	175.4	185.8	198.1	201.9	198.1	186.8	172.5	160.2	158.3
77.5°	132.7	133.7	144.1	152.6	164.0	166.9	164.0	154.5	141.3	130.8	129.9
80°	100.5	101.4	110.0	117.6	127.0	130.8	128.0	118.5	108.1	98.6	95.8
82.5°	65.4	66.4	74.9	80.6	89.1	92.0	90.1	81.5	73.0	63.5	62.6
85°	29.4	30.3	37.9	42.7	49.3	52.1	50.2	42.7	36.0	27.5	25.6
87.5°	2.8	2.8	2.8	2.8	2.8	3.8	3.8	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)