

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: P832821

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832821
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-RW-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1876.7 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U4 - G1

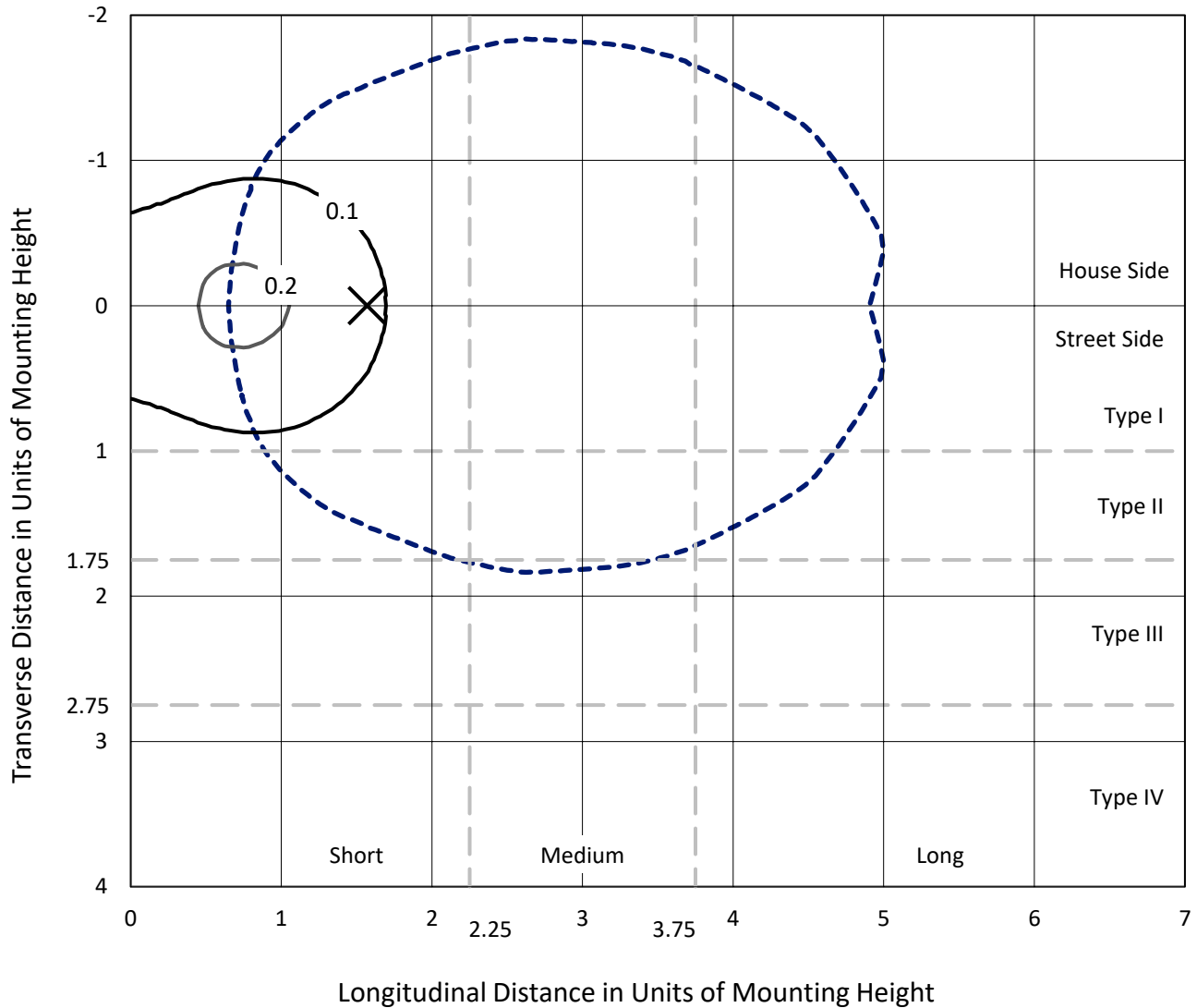
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

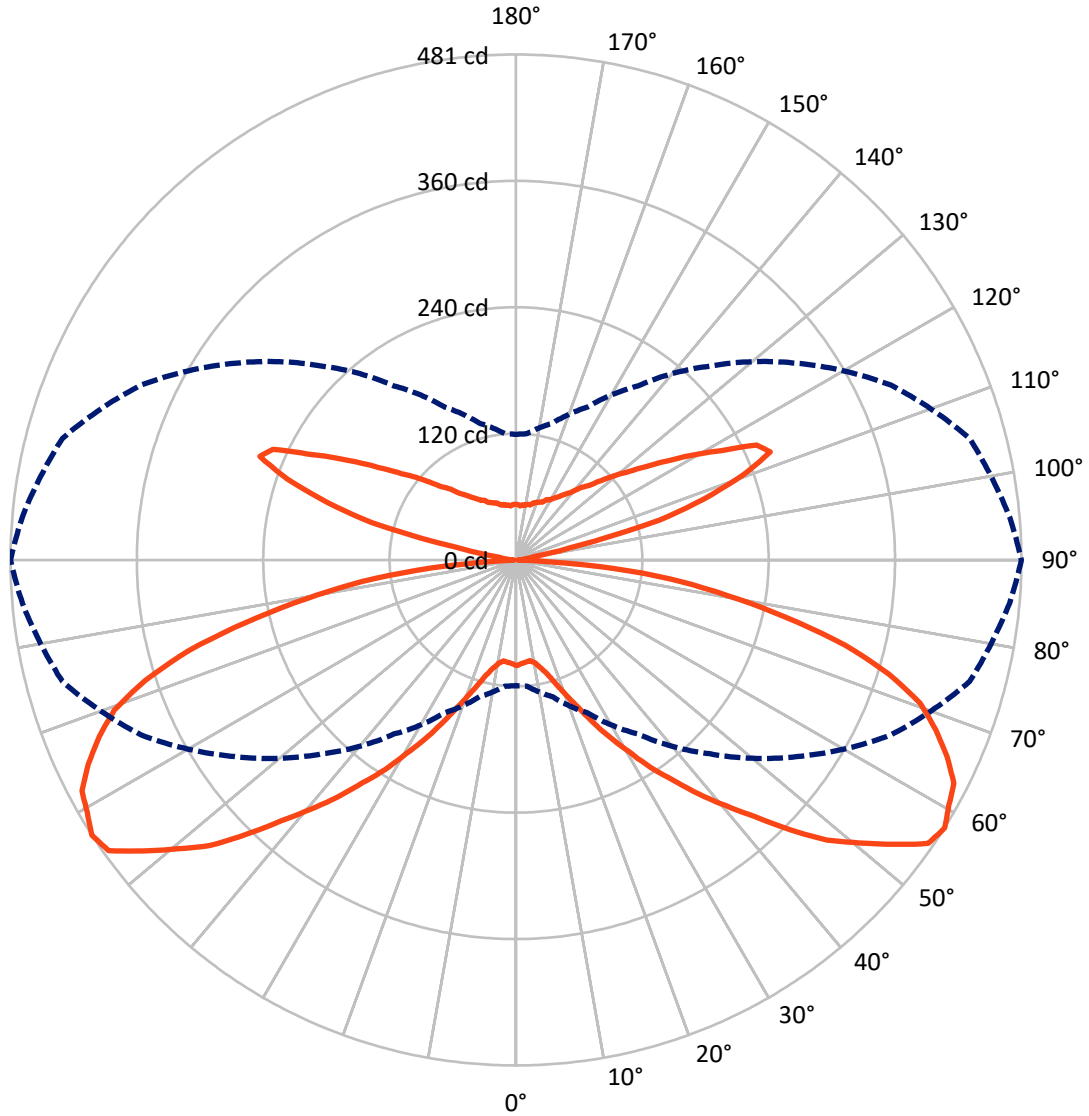
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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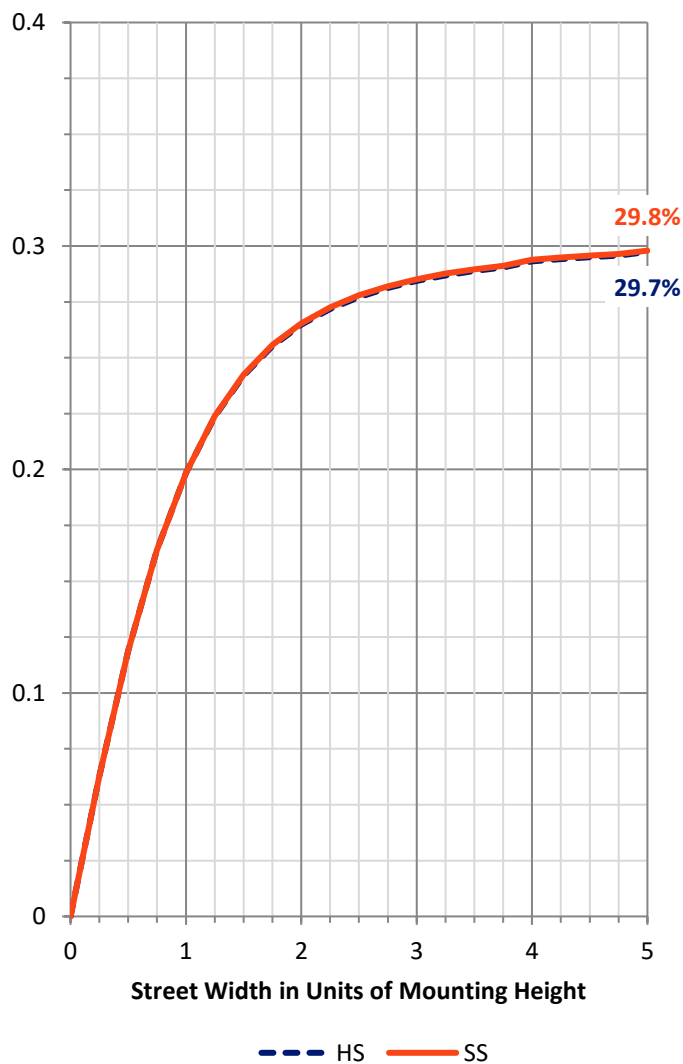
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	562.0	376.3	938.3
	% Fixture	29.9	20.1	50.0
Street Side	Lumens	562.0	376.3	938.3
	% Fixture	29.9	20.1	50.0
Total	Lumens	1124.0	752.7	1876.7
	% Fixture	59.9	40.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.5
10°-20°	30.1	1.6
20°-30°	62.8	3.3
30°-40°	112.7	6.0
40°-50°	180.1	9.6
50°-60°	246.5	13.1
60°-70°	254.3	13.5
70°-80°	180.8	9.6
80°-90°	47.3	2.5
90°-100°	16.8	0.9
100°-110°	170.7	9.1
110°-120°	249.6	13.3
120°-130°	144.9	7.7
130°-140°	76.7	4.1
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°	1124.0	59.9
0°-180°	1876.7	100.0

Coefficient of Utilization



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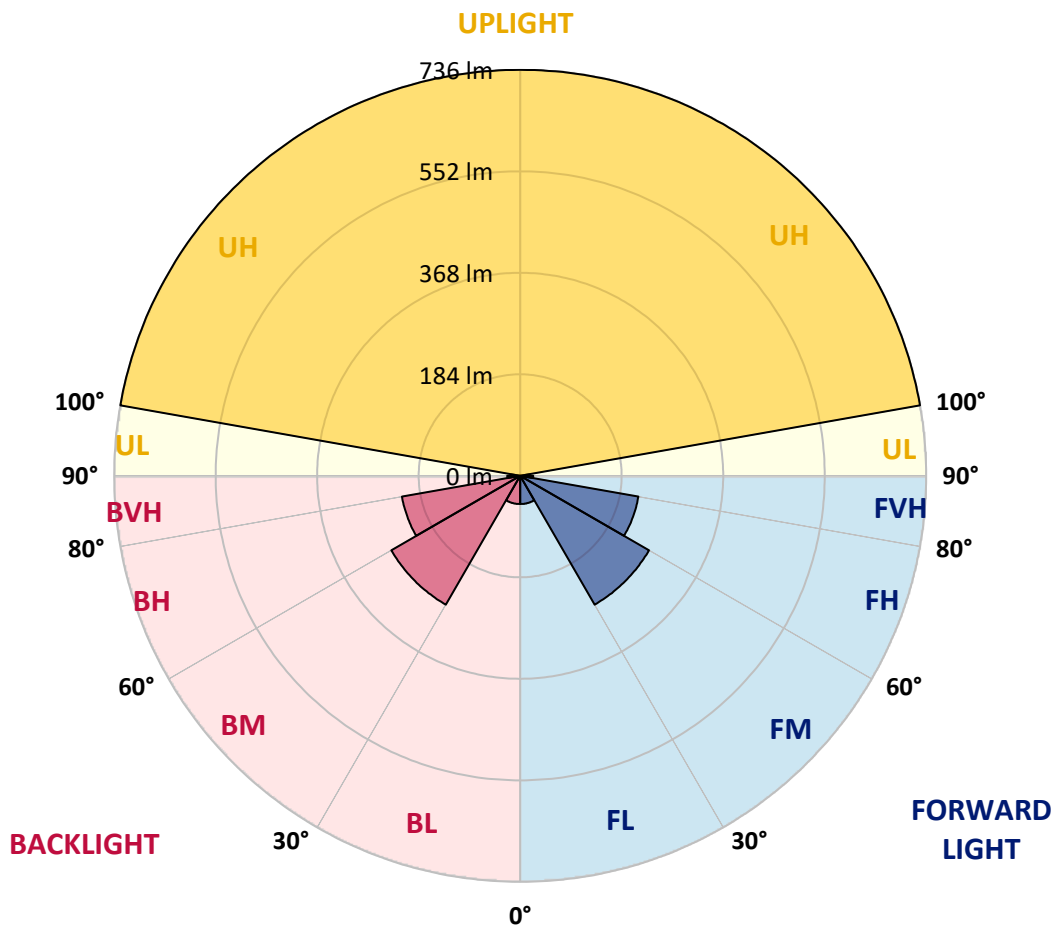
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	51.2	2.7			
FM (30°-60°)	269.6	14.4			
FH (60°-80°)	217.5	11.6			G0/660
FVH (80°-90°)	23.6	1.3			G1/100
BL (0°-30°)	51.2	2.7	B0/110		
BM (30°-60°)	269.6	14.4	B1/1000		
BH (60°-80°)	217.5	11.6	B1/500		G1/500
BVH (80°-90°)	23.6	1.3			G1/100
UL (90°-100°)	16.8	0.9		U2/50	
UH (100°-180°)	735.8	39.2		U4/1000	

BUG Rating: B1-U4-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
2.5°	100.5	100.5	99.5	99.5	99.5	98.6	98.6	98.6	98.6	97.6	98.6
5°	100.5	100.5	100.5	100.5	99.5	98.6	98.6	98.6	97.6	97.6	97.6
7.5°	99.5	99.5	99.5	99.5	98.6	97.6	97.6	97.6	96.7	96.7	96.7
10°	98.6	99.5	98.6	98.6	97.6	97.6	98.6	98.6	99.5	99.5	99.5
12.5°	97.6	97.6	97.6	98.6	98.6	99.5	101.4	103.3	104.2	105.2	105.2
15°	97.6	97.6	98.6	99.5	101.4	103.3	106.1	109.0	110.9	112.8	112.8
17.5°	97.6	97.6	98.6	101.4	104.2	108.0	112.8	116.6	120.4	123.2	124.1
20°	97.6	97.6	99.5	103.3	109.0	114.7	121.3	127.0	132.7	137.4	137.4
22.5°	98.6	99.5	101.4	106.1	114.7	123.2	131.7	140.3	146.9	152.6	152.6
25°	100.5	100.5	103.3	110.9	121.3	132.7	145.0	155.4	164.0	171.5	171.5
27.5°	101.4	102.4	106.1	115.6	128.9	143.1	160.2	172.5	183.9	190.5	191.4
30°	103.3	104.2	109.9	119.4	135.5	153.5	173.4	190.5	202.8	209.4	211.3
32.5°	104.2	105.2	112.8	124.1	142.2	163.0	185.8	207.5	224.6	232.2	235.0
35°	107.1	108.0	115.6	128.9	149.7	173.4	200.0	225.6	245.5	254.9	256.8
37.5°	109.9	110.9	118.5	133.6	157.3	184.8	215.1	244.5	267.3	278.6	282.4
40°	111.8	112.8	121.3	139.3	165.8	197.1	232.2	264.4	290.0	304.2	307.1
42.5°	114.7	115.6	125.1	144.1	173.4	209.4	250.2	286.2	313.7	329.8	333.6
45°	117.5	118.5	128.9	149.7	182.0	222.7	268.2	311.8	343.1	362.0	365.8
47.5°	120.4	121.3	132.7	155.4	190.5	236.0	287.2	334.5	372.4	390.5	398.0
50°	121.3	123.2	134.6	159.2	196.2	247.4	303.3	357.3	397.1	420.8	422.7
52.5°	122.3	124.1	136.5	162.1	200.9	255.9	316.5	376.2	422.7	451.1	449.2
55°	123.2	123.2	136.5	162.1	202.8	261.6	326.0	388.6	439.7	462.5	475.7
57.5°	119.4	120.4	134.6	160.2	201.9	260.6	326.0	393.3	446.4	471.0	480.5
60°	114.7	116.6	129.8	155.4	198.1	257.8	324.1	391.4	449.2	475.7	472.9
62.5°	108.0	111.8	123.2	148.8	192.4	251.1	321.3	386.7	442.6	470.1	467.2
65°	100.5	104.2	114.7	142.2	180.1	235.0	306.1	377.2	424.6	455.8	450.2
67.5°	92.9	95.7	106.1	130.8	165.8	218.0	286.2	356.3	399.0	433.1	430.3
70°	84.3	85.3	95.7	117.5	151.6	200.9	267.3	327.0	376.2	401.8	407.5
72.5°	73.9	73.9	84.3	103.3	134.6	178.2	241.7	293.8	340.2	362.0	370.6
75°	60.7	61.6	70.1	87.2	112.8	152.6	205.7	258.7	297.6	320.3	323.2
77.5°	47.4	48.3	55.0	69.2	91.0	123.2	169.6	211.3	248.3	268.2	262.5
80°	34.1	35.1	39.8	50.2	67.3	91.9	130.8	167.7	194.3	210.4	202.8
82.5°	20.8	21.8	24.6	31.3	42.6	59.7	89.1	116.6	137.4	150.7	147.8
85°	10.4	10.4	12.3	14.2	18.0	26.5	42.6	58.8	74.9	84.3	81.5
87.5°	1.9	2.8	2.8	2.8	2.8	1.9	2.8	2.8	2.8	4.7	1.9
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)