

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: P832818

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832818
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-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1806.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U4 - G1

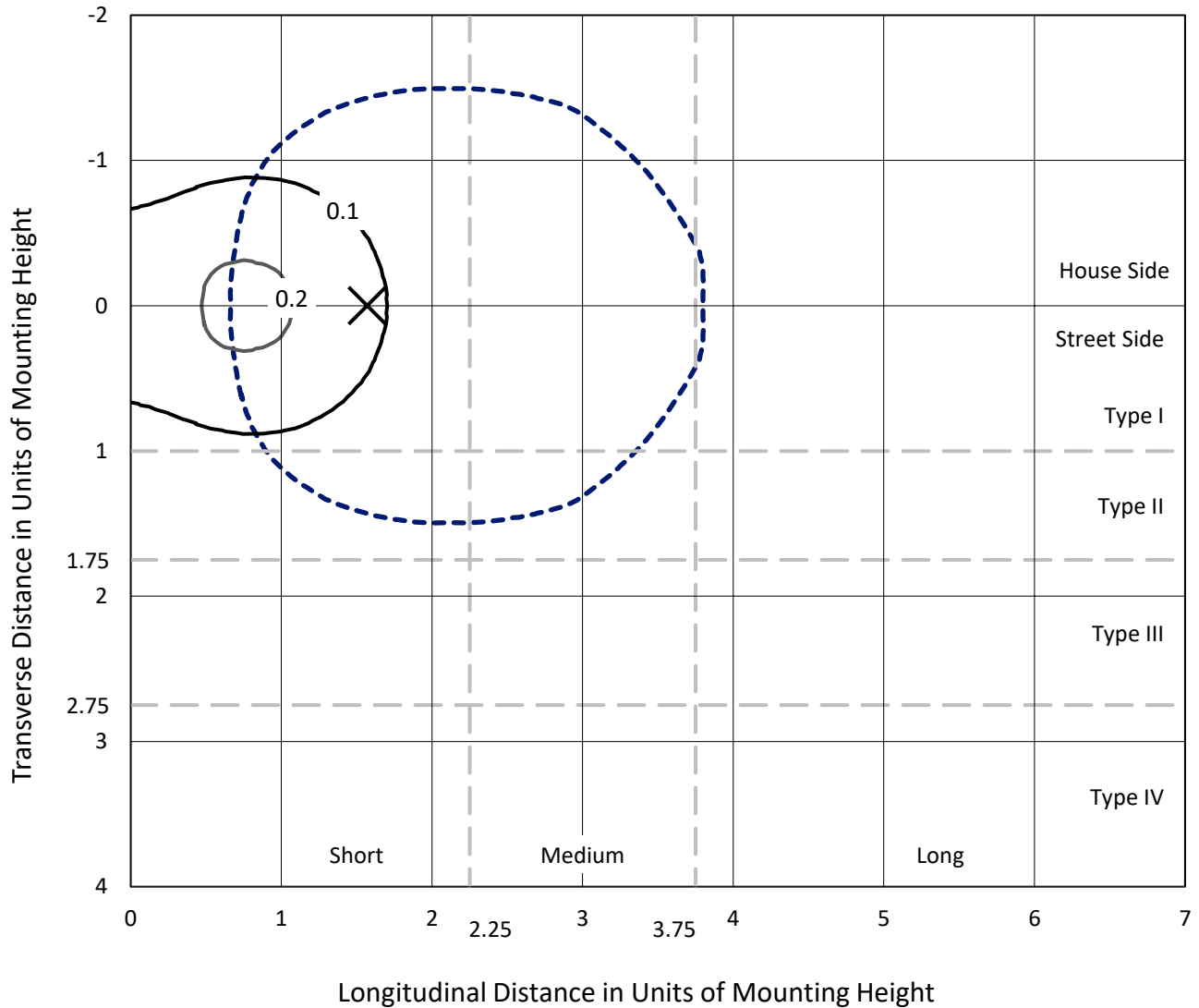
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

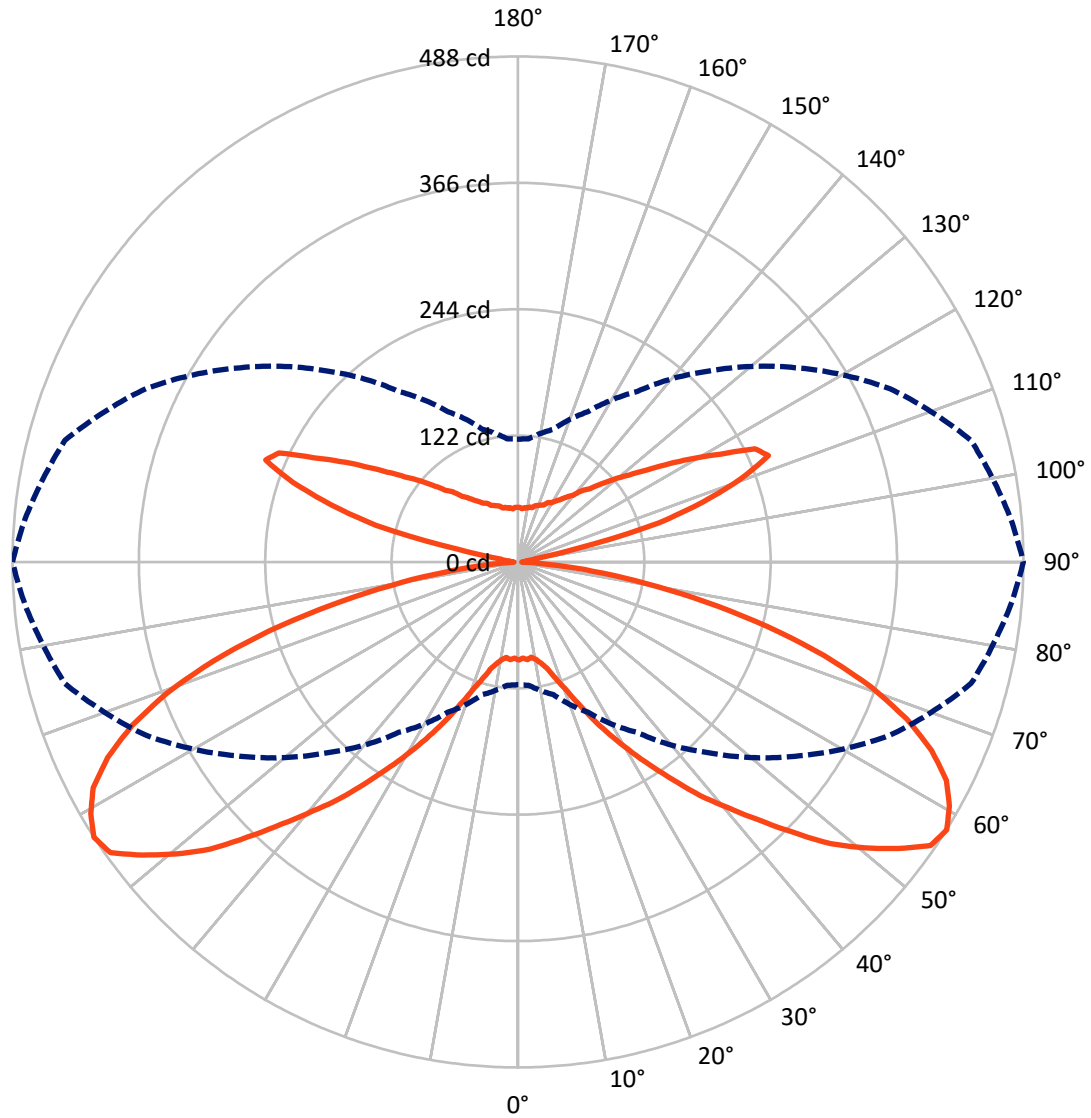
× Max cd
 - - - 1/2 Max cd



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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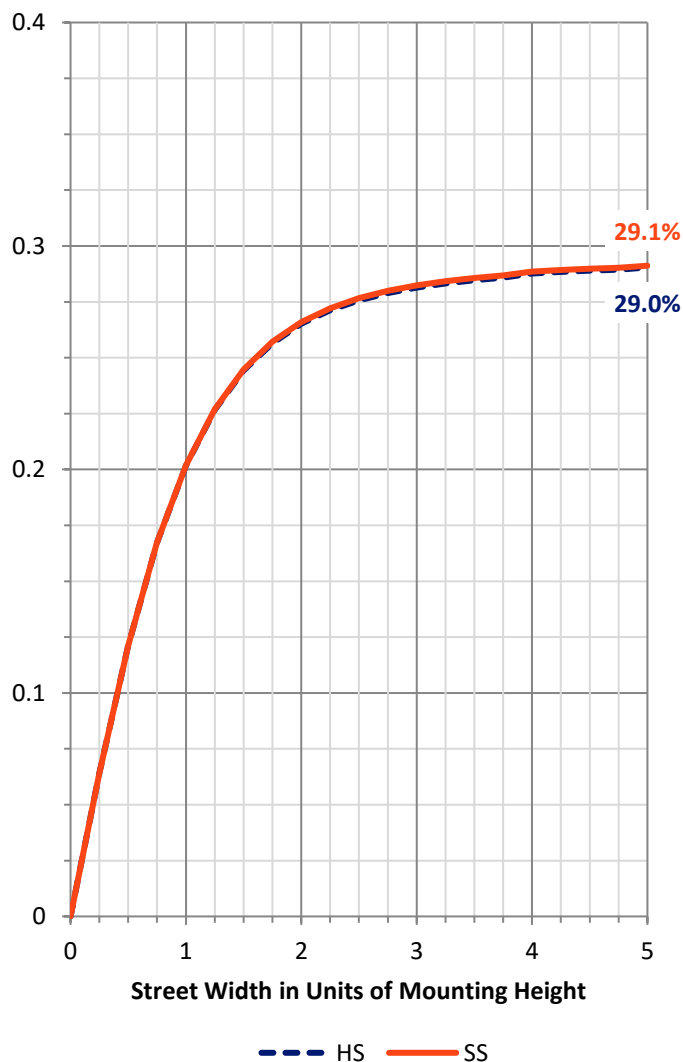
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	527.0	376.3	903.3
	% Fixture	29.2	20.8	50.0
Street Side	Lumens	527.0	376.3	903.3
	% Fixture	29.2	20.8	50.0
Total	Lumens	1054.0	752.7	1806.6
	% Fixture	58.3	41.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.5
10°-20°	29.1	1.6
20°-30°	61.9	3.4
30°-40°	114.1	6.3
40°-50°	183.8	10.2
50°-60°	248.7	13.8
60°-70°	241.8	13.4
70°-80°	140.7	7.8
80°-90°	24.8	1.4
90°-100°	16.8	0.9
100°-110°	170.7	9.5
110°-120°	249.6	13.8
120°-130°	144.9	8.0
130°-140°	76.7	4.2
140°-150°	45.6	2.5
150°-160°	28.1	1.6
160°-170°	15.3	0.8
170°-180°	5.0	0.3
0°-90°	1054.0	58.3
0°-180°	1806.6	100.0

Coefficient of Utilization

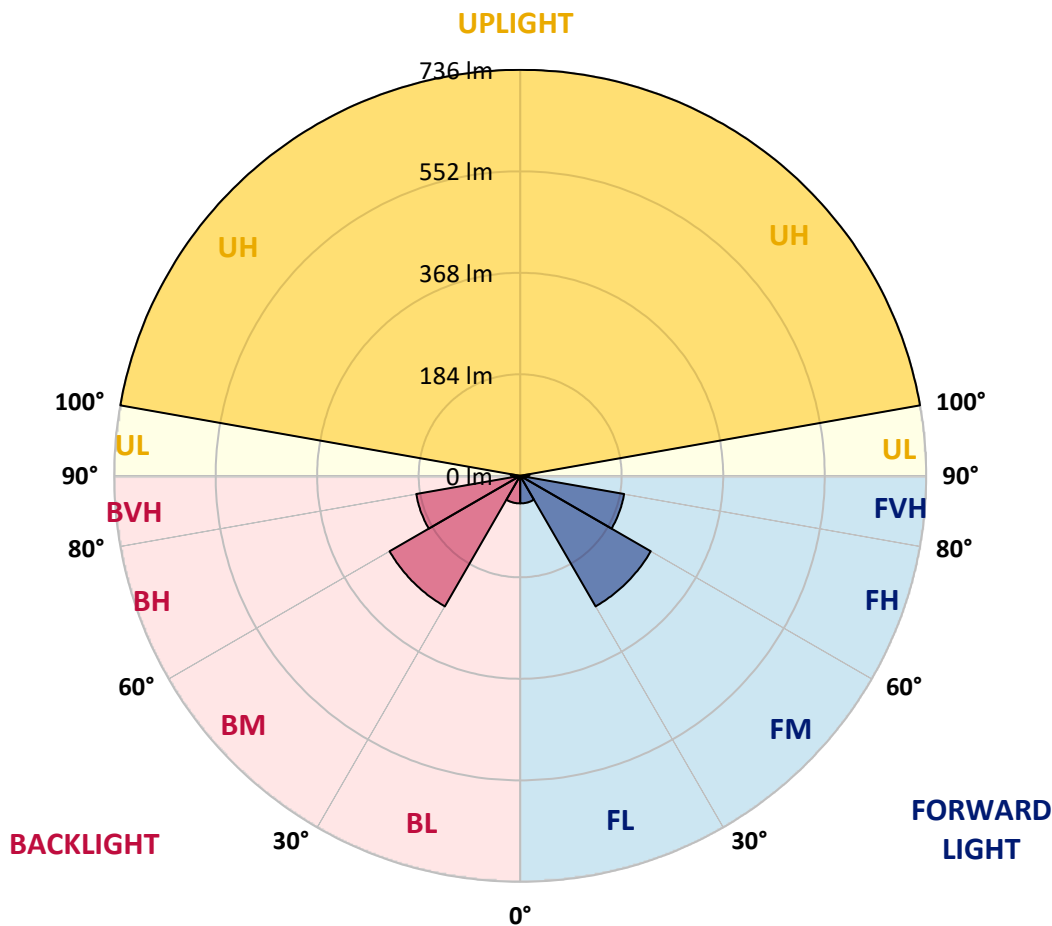


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.0	2.8			
FM (30°-60°)	273.3	15.1			
FH (60°-80°)	191.3	10.6			G0/660
FVH (80°-90°)	12.4	0.7			G1/100
BL (0°-30°)	50.0	2.8	B0/110		
BM (30°-60°)	273.3	15.1	B1/1000		
BH (60°-80°)	191.3	10.6	B1/500		G1/500
BVH (80°-90°)	12.4	0.7			G1/100
UL (90°-100°)	16.8	0.9		U2/50	
UH (100°-180°)	735.8	40.7		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°	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2.5°	94.7	94.7	94.7	94.7	93.8	93.8	93.8	92.8	92.8	92.8	92.8
5°	94.7	94.7	94.7	95.7	95.7	95.7	94.7	94.7	94.7	94.7	94.7
7.5°	94.7	95.7	95.7	94.7	94.7	93.8	93.8	93.8	92.8	92.8	92.8
10°	94.7	94.7	94.7	94.7	93.8	93.8	94.7	94.7	95.7	95.7	95.7
12.5°	93.8	93.8	94.7	94.7	94.7	95.7	97.6	98.5	99.5	100.4	100.4
15°	94.7	94.7	95.7	96.6	97.6	99.5	102.3	105.2	107.1	108.0	107.1
17.5°	94.7	95.7	96.6	98.5	101.4	104.2	109.0	112.7	116.5	117.5	118.4
20°	96.6	96.6	97.6	101.4	106.1	110.8	117.5	124.1	128.9	130.7	130.7
22.5°	97.6	98.5	99.5	104.2	111.8	119.4	128.9	136.4	143.1	146.9	147.8
25°	100.4	100.4	102.3	109.0	118.4	129.8	142.1	153.5	162.0	166.7	167.7
27.5°	102.3	103.3	106.1	114.6	127.0	141.2	158.2	171.5	181.9	187.6	188.5
30°	104.2	105.2	110.8	120.3	135.5	152.5	172.4	189.5	202.7	209.4	210.3
32.5°	107.1	108.0	114.6	125.1	143.1	163.9	186.6	207.5	226.4	232.1	233.1
35°	109.9	110.8	118.4	130.7	151.6	175.3	201.8	226.4	249.2	256.8	258.6
37.5°	112.7	113.7	121.3	136.4	160.1	187.6	218.9	248.2	272.9	283.3	286.1
40°	115.6	116.5	125.1	142.1	168.6	200.9	236.9	269.1	297.5	309.8	311.7
42.5°	117.5	118.4	127.9	146.9	177.2	213.2	255.8	291.8	322.1	338.2	340.1
45°	120.3	121.3	131.7	153.5	184.7	227.4	273.8	317.4	352.4	370.4	372.3
47.5°	122.2	123.2	134.5	157.3	193.3	240.6	292.8	340.1	381.8	400.8	406.4
50°	123.2	124.1	136.4	161.1	199.0	250.1	307.9	362.9	407.4	431.1	433.9
52.5°	123.2	125.1	137.4	163.9	202.7	258.6	320.2	381.8	432.0	458.6	459.5
55°	122.2	123.2	136.4	163.0	204.6	262.4	328.8	393.2	449.1	474.7	483.2
57.5°	118.4	119.4	132.6	160.1	200.9	260.5	326.9	396.0	452.9	477.5	487.9
60°	112.7	114.6	127.0	153.5	195.2	253.9	321.2	390.3	447.2	477.5	478.5
62.5°	106.1	107.1	119.4	145.0	186.6	243.5	310.8	379.0	433.9	465.2	464.2
65°	96.6	97.6	108.0	134.5	171.5	223.6	289.9	361.0	408.3	441.5	438.7
67.5°	86.2	87.2	96.6	120.3	153.5	201.8	261.5	330.7	372.3	406.4	404.6
70°	74.8	74.8	83.4	103.3	134.5	177.2	230.2	290.9	332.5	361.0	361.9
72.5°	61.6	61.6	69.2	86.2	112.7	148.7	194.2	248.2	282.3	307.0	308.9
75°	48.3	47.4	54.0	68.2	89.1	118.4	153.5	199.9	226.4	250.1	249.2
77.5°	34.1	34.1	37.9	49.3	64.4	88.1	113.7	150.6	168.6	188.5	184.7
80°	21.8	21.8	23.7	32.2	42.6	58.7	74.8	102.3	114.6	129.8	125.1
82.5°	11.4	10.4	12.3	17.1	22.7	32.2	41.7	59.7	65.4	76.7	73.0
85°	3.8	3.8	3.8	5.7	8.5	12.3	16.1	25.6	26.5	34.1	31.3
87.5°	0.9	0.0	0.0	0.9	0.9	0.9	0.9	2.8	2.8	5.7	3.8
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)