

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: P832817

Luminaire Tested: **TTN-D0-735-U-RW-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832817
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-UPL2
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: 1596.7 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U4 - G1

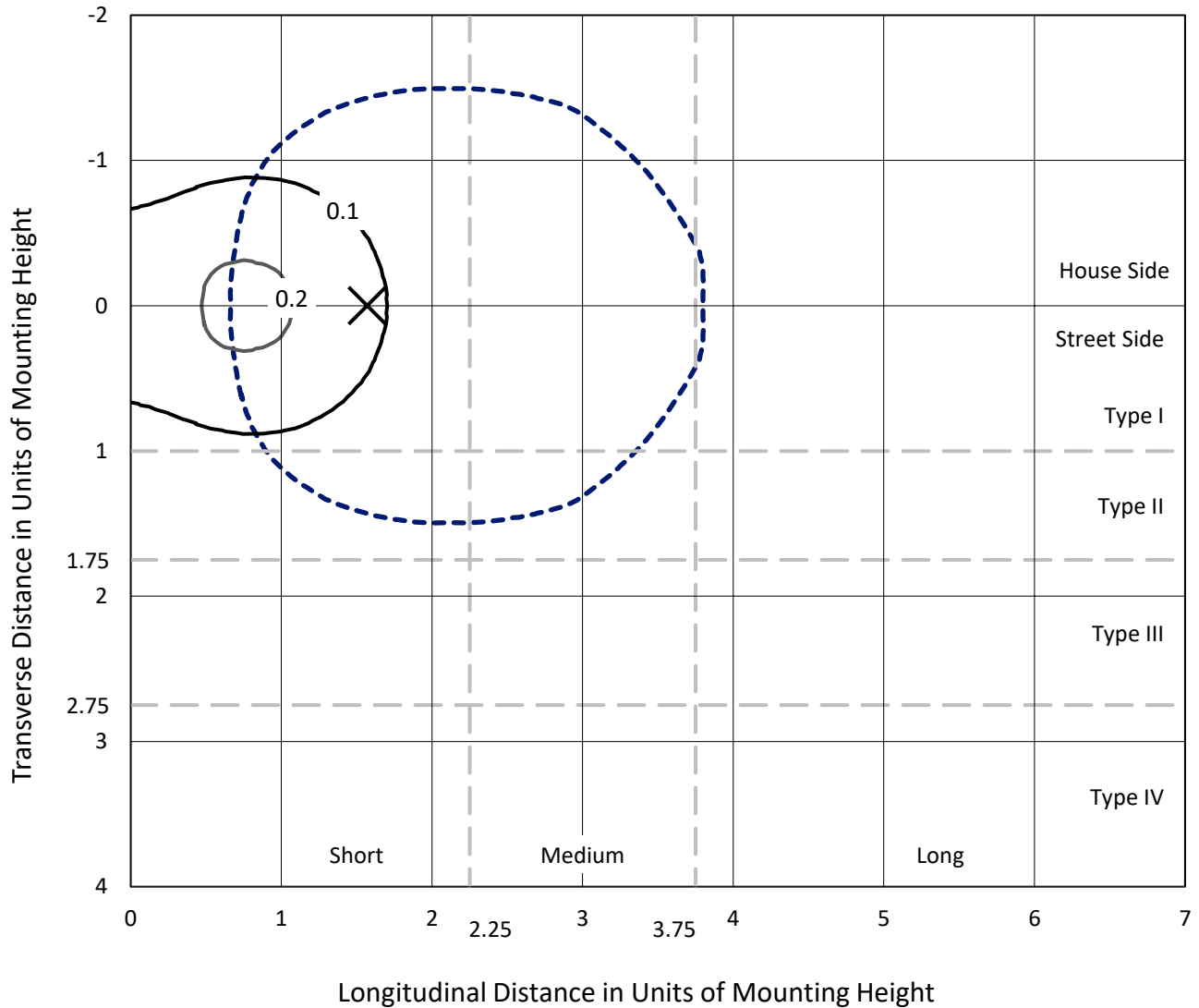
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P832817
 CATALOG NUMBER: TTN-D0-735-U-RW-CG-UPL2

Iso-Footcandle Lines of Horizontal Illumination

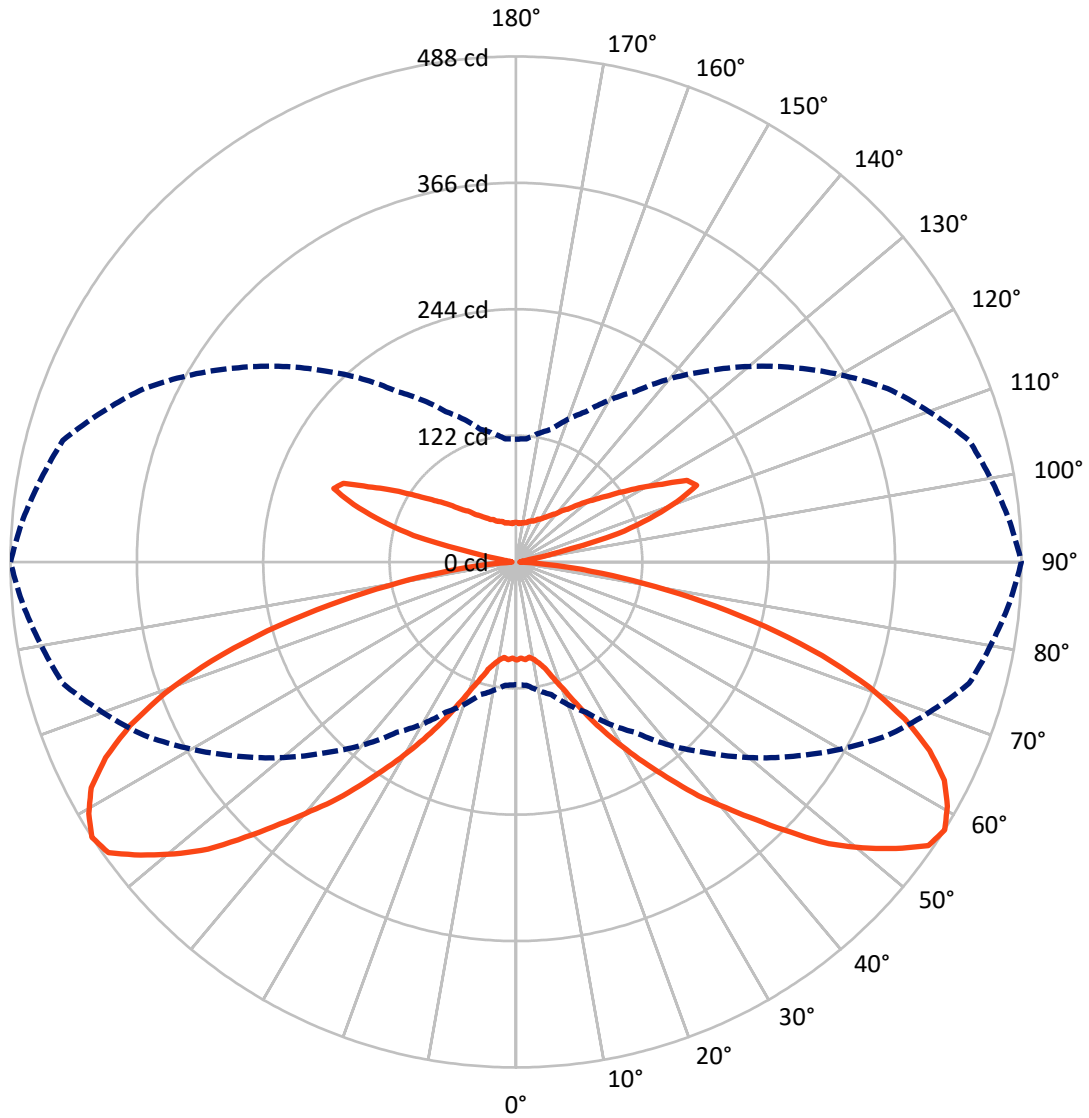
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P832817
CATALOG NUMBER: TTN-D0-735-U-RW-CG-UPL2

Luminous Intensity Polar Plot



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

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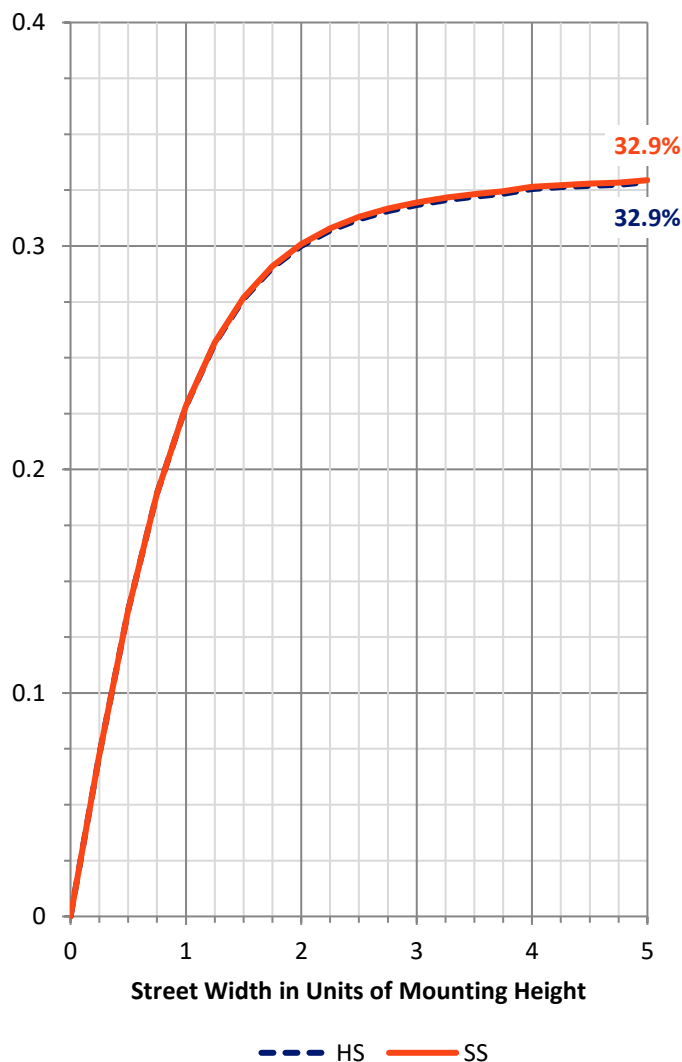
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.9	271.5	798.4
	% Fixture	33.0	17.0	50.0
Street Side	Lumens	526.9	271.5	798.4
	% Fixture	33.0	17.0	50.0
Total	Lumens	1053.7	543.0	1596.7
	% Fixture	66.0	34.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.6
10°-20°	29.1	1.8
20°-30°	61.9	3.9
30°-40°	114.1	7.1
40°-50°	183.8	11.5
50°-60°	248.7	15.6
60°-70°	241.8	15.1
70°-80°	140.7	8.8
80°-90°	24.5	1.5
90°-100°	12.1	0.8
100°-110°	123.2	7.7
110°-120°	180.1	11.3
120°-130°	104.5	6.5
130°-140°	55.4	3.5
140°-150°	32.9	2.1
150°-160°	20.2	1.3
160°-170°	11.0	0.7
170°-180°	3.6	0.2
0°-90°	1053.7	66.0
0°-180°	1596.7	100.0

Coefficient of Utilization



REPORT NUMBER: P832817

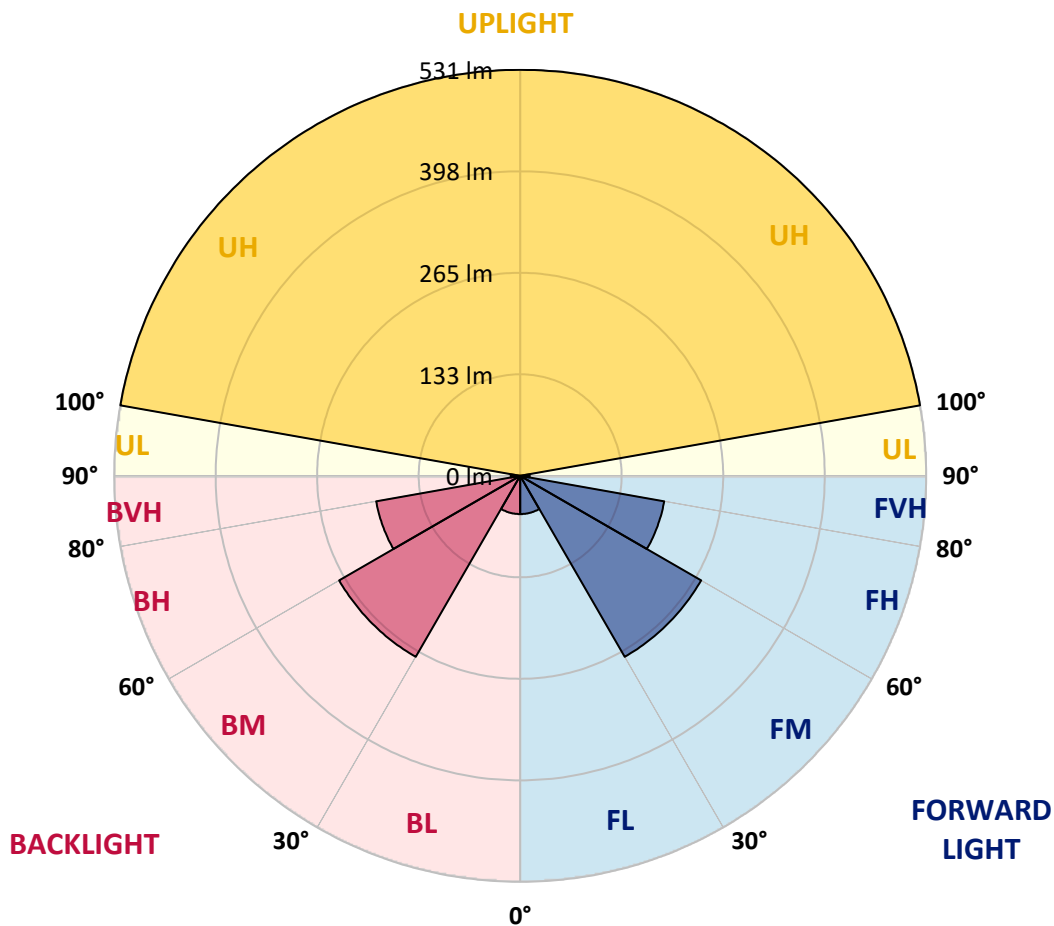
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.0	3.1			
FM (30°-60°)	273.3	17.1			
FH (60°-80°)	191.3	12.0			G0/660
FVH (80°-90°)	12.3	0.8			G1/100
BL (0°-30°)	50.0	3.1	B0/110		
BM (30°-60°)	273.3	17.1	B1/1000		
BH (60°-80°)	191.3	12.0	B1/500		G1/500
BVH (80°-90°)	12.3	0.8			G1/100
UL (90°-100°)	12.1	0.8		U2/50	
UH (100°-180°)	530.9	33.2		U4/1000	

BUG Rating: B1-U4-G1

Type II Short





REPORT NUMBER: P832817

CATALOG NUMBER: TTN-D0-735-U-RW-CG-UPL2

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°	4.6	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.6	4.6
92.5°	4.6	4.6	4.6	6.5	7.4	6.5	7.4	5.6	5.6	4.6	4.6
95°	5.6	5.6	6.5	8.4	10.2	11.1	11.1	6.5	6.5	5.6	5.6
97.5°	7.4	8.4	8.4	10.2	16.7	30.7	18.6	9.3	9.3	8.4	7.4
100°	12.1	13.0	13.0	23.2	49.2	66.0	47.4	24.2	17.7	13.0	13.0
102.5°	39.0	40.9	50.2	75.3	111.5	101.3	85.5	80.8	55.7	44.6	42.7
105°	99.4	98.5	105.9	125.4	156.1	153.3	141.2	128.2	110.6	102.2	102.2
107.5°	131.0	131.0	137.5	154.2	177.4	207.2	210.0	166.3	145.9	136.6	135.6
110°	147.7	147.7	153.3	167.2	197.9	239.7	237.8	205.3	180.2	168.2	166.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	151.4	152.4	159.8	181.2	214.6	233.2	224.8	211.8	200.7	191.4	189.5
115°	157.0	157.0	165.4	185.8	204.4	211.8	202.5	192.3	184.9	181.2	183.0
117.5°	155.1	157.9	159.8	170.9	183.0	188.6	183.9	170.0	164.4	162.6	159.8
120°	144.0	144.0	145.9	151.4	157.9	160.7	158.9	149.6	144.9	144.0	142.1
122.5°	128.2	129.1	128.2	131.0	135.6	138.4	136.6	129.1	127.3	127.3	125.4
125°	112.4	112.4	111.5	113.3	116.1	115.2	116.1	112.4	111.5	111.5	110.6
127.5°	101.3	100.3	98.5	99.4	100.3	100.3	101.3	97.5	98.5	99.4	98.5
130°	90.1	90.1	88.3	88.3	88.3	86.4	88.3	86.4	87.3	88.3	89.2
132.5°	79.9	79.9	77.1	76.2	76.2	76.2	77.1	76.2	78.0	79.9	79.9
135°	71.5	71.5	68.7	69.7	69.7	68.7	69.7	68.7	70.6	71.5	71.5
137.5°	65.0	65.0	63.2	63.2	63.2	62.2	63.2	63.2	64.1	66.0	66.9
140°	59.5	59.5	58.5	58.5	57.6	58.5	58.5	58.5	59.5	60.4	60.4
142.5°	56.7	55.7	54.8	53.9	54.8	54.8	54.8	53.9	54.8	56.7	56.7
145°	52.0	52.0	51.1	51.1	51.1	52.0	51.1	51.1	52.0	52.0	53.0
147.5°	49.2	49.2	48.3	49.2	49.2	49.2	49.2	48.3	49.2	49.2	50.2
150°	48.3	47.4	46.5	47.4	47.4	46.5	46.5	46.5	46.5	47.4	47.4
152.5°	45.5	45.5	44.6	45.5	44.6	44.6	44.6	44.6	44.6	45.5	46.5
155°	43.7	43.7	42.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
157.5°	41.8	42.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.7	42.7
160°	40.9	40.9	40.9	40.9	39.9	39.9	39.9	40.9	40.9	40.9	41.8
162.5°	39.9	39.9	39.9	39.9	39.0	39.0	39.0	39.0	39.9	39.9	40.9
165°	39.9	39.0	39.0	39.0	38.1	38.1	38.1	38.1	39.0	39.9	39.0
167.5°	38.1	38.1	38.1	38.1	38.1	37.2	37.2	38.1	38.1	38.1	39.0
170°	38.1	38.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	38.1
172.5°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	37.2	37.2	38.1	38.1
175°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	38.1	38.1	38.1	37.2
177.5°	38.1	38.1	38.1	38.1	37.2	38.1	38.1	38.1	38.1	38.1	38.1
180°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1

(END OF REPORT)