

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: P832803

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832803
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-CQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1911.7 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G0

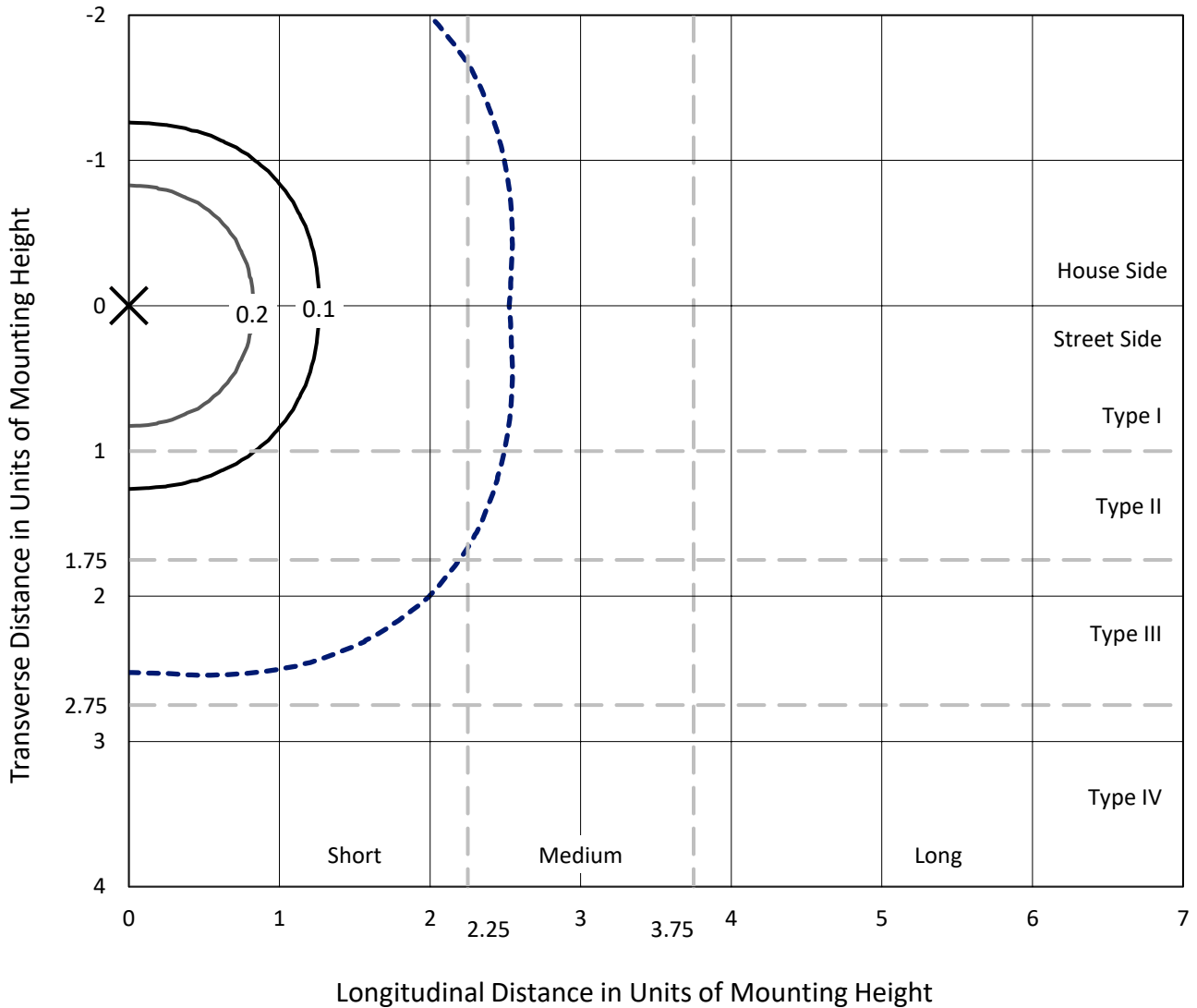
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

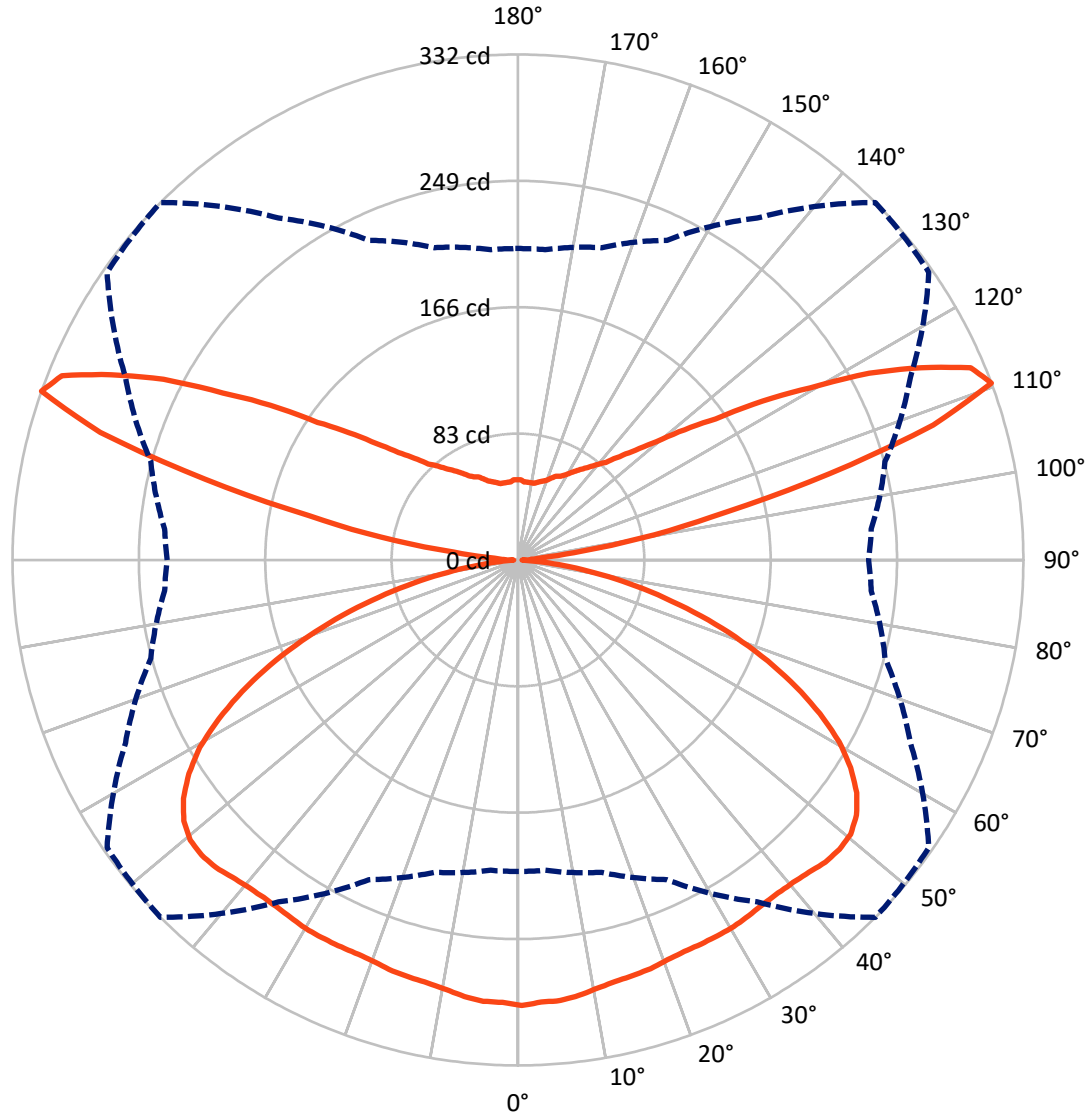
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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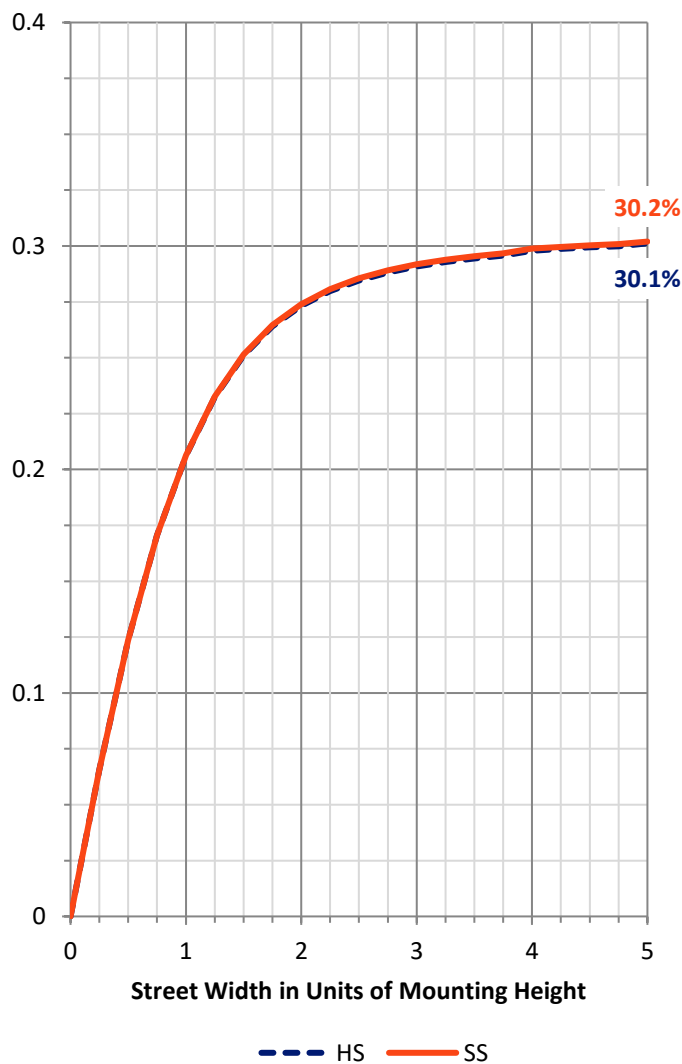
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.5	376.3	955.8
	% Fixture	30.3	19.7	50.0
Street Side	Lumens	579.5	376.3	955.8
	% Fixture	30.3	19.7	50.0
Total	Lumens	1159.0	752.7	1911.7
	% Fixture	60.6	39.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	1.4
10°-20°	80.2	4.2
20°-30°	129.1	6.8
30°-40°	173.6	9.1
40°-50°	214.2	11.2
50°-60°	229.8	12.0
60°-70°	186.4	9.7
70°-80°	98.8	5.2
80°-90°	19.3	1.0
90°-100°	16.8	0.9
100°-110°	170.7	8.9
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°	1159.0	60.6
0°-180°	1911.7	100.0

Coefficient of Utilization



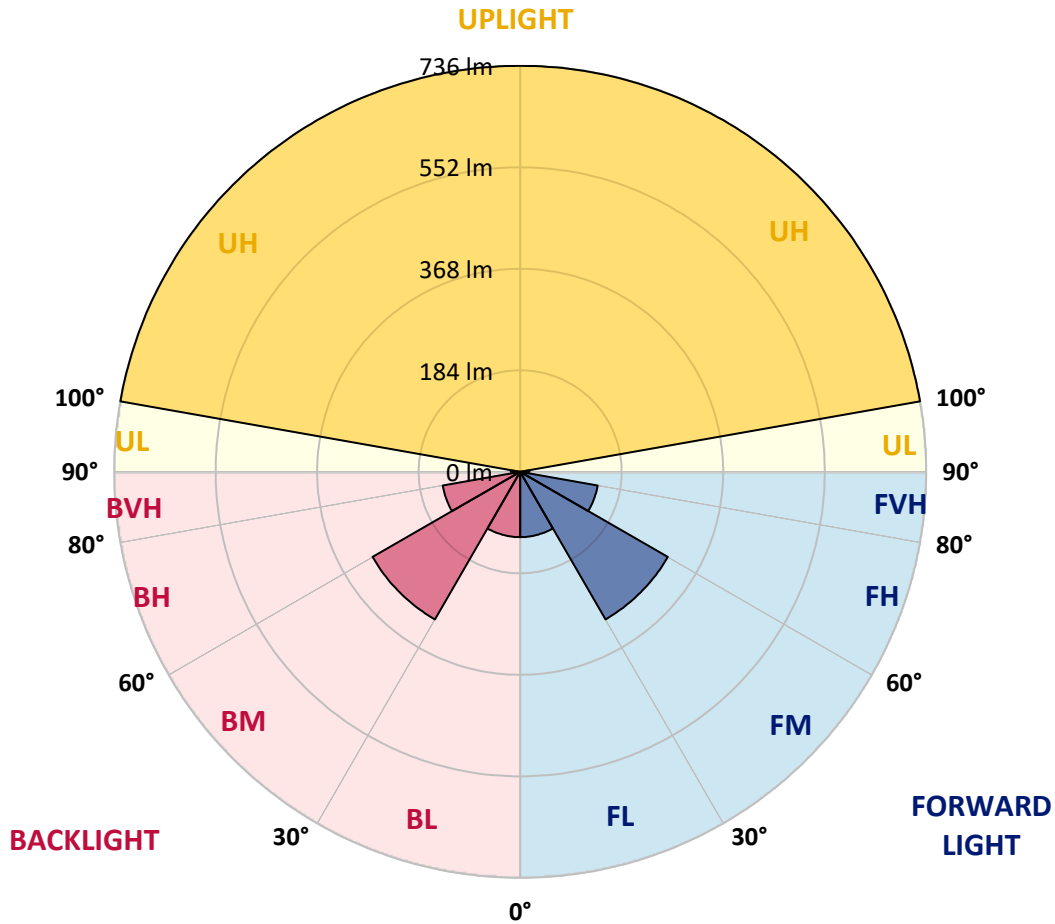
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.4	6.2			
FM (30°-60°)	308.9	16.2			
FH (60°-80°)	142.6	7.5			G0/660
FVH (80°-90°)	9.6	0.5			G0/10
BL (0°-30°)	118.4	6.2	B1/500		
BM (30°-60°)	308.9	16.2	B1/1000		
BH (60°-80°)	142.6	7.5	B1/500		G0/660
BVH (80°-90°)	9.6	0.5			G0/10
UL (90°-100°)	16.8	0.9		U2/50	
UH (100°-180°)	735.8	38.5		U4/1000	

BUG Rating: B1-U4-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8	292.8
2.5°	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	290.9	291.9
5°	290.9	290.9	290.9	290.9	290.0	290.9	290.9	290.9	290.9	290.9	290.9
7.5°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
10°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
12.5°	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3	284.3
15°	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	282.4	282.4
17.5°	281.4	281.4	281.4	281.4	282.4	282.4	282.4	281.4	281.4	281.4	281.4
20°	279.6	279.6	279.6	280.5	280.5	280.5	280.5	280.5	279.6	279.6	279.6
22.5°	278.6	278.6	278.6	278.6	279.6	279.6	279.6	279.6	278.6	278.6	278.6
25°	277.7	277.7	278.6	278.6	279.6	279.6	279.6	278.6	278.6	277.7	277.7
27.5°	277.7	277.7	278.6	278.6	279.6	279.6	279.6	279.6	278.6	277.7	277.7
30°	276.7	277.7	277.7	278.6	279.6	279.6	279.6	278.6	277.7	276.7	276.7
32.5°	275.8	275.8	276.7	277.7	278.6	278.6	278.6	277.7	276.7	275.8	274.8
35°	274.8	274.8	274.8	276.7	277.7	277.7	277.7	276.7	274.8	273.9	273.9
37.5°	272.9	273.9	274.8	275.8	277.7	277.7	277.7	275.8	273.9	272.9	272.0
40°	272.9	272.9	274.8	275.8	278.6	278.6	277.7	275.8	273.9	272.0	271.0
42.5°	272.0	272.9	274.8	277.7	280.5	280.5	279.6	276.7	273.9	272.0	271.0
45°	272.0	272.0	274.8	278.6	282.4	283.3	281.4	278.6	274.8	271.0	271.0
47.5°	270.1	270.1	273.9	278.6	283.3	284.3	283.3	278.6	273.9	271.0	270.1
50°	265.3	265.3	270.1	275.8	281.4	283.3	281.4	277.7	271.0	267.2	266.3
52.5°	257.8	257.8	262.5	270.1	275.8	278.6	276.7	272.0	265.3	259.6	258.7
55°	246.4	247.3	252.1	260.6	267.2	270.1	268.2	262.5	254.9	249.2	247.3
57.5°	233.1	233.1	239.7	248.3	254.9	257.8	255.9	250.2	241.6	236.0	234.1
60°	215.1	216.1	221.7	233.1	239.7	242.6	240.7	234.1	224.6	218.0	216.1
62.5°	197.1	198.1	203.7	213.2	220.8	222.7	220.8	214.2	205.6	199.0	197.1
65°	176.3	177.2	183.8	192.4	198.1	200.9	198.1	192.4	184.8	178.2	177.2
67.5°	154.5	155.4	162.0	169.6	175.3	177.2	174.4	169.6	162.0	156.4	154.5
70°	131.7	132.7	138.4	145.0	149.7	151.6	149.7	144.0	138.4	132.7	131.7
72.5°	108.0	109.0	114.7	120.3	124.1	126.0	123.2	119.4	113.7	109.0	108.0
75°	85.3	85.3	90.0	94.8	98.6	99.5	97.6	94.8	90.0	86.2	84.3
77.5°	63.5	63.5	68.2	71.1	73.0	74.9	73.0	70.1	67.3	63.5	63.5
80°	42.6	42.6	46.4	48.3	50.2	51.2	50.2	48.3	46.4	43.6	42.6
82.5°	25.6	25.6	27.5	29.4	29.4	30.3	30.3	29.4	27.5	25.6	25.6
85°	11.4	10.4	12.3	13.3	13.3	14.2	14.2	13.3	12.3	11.4	11.4
87.5°	0.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	1.9	1.9	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)