

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: P832826

Luminaire Tested: **TTN-D0-735-U-WQ-SG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832826
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-SG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1615.8 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

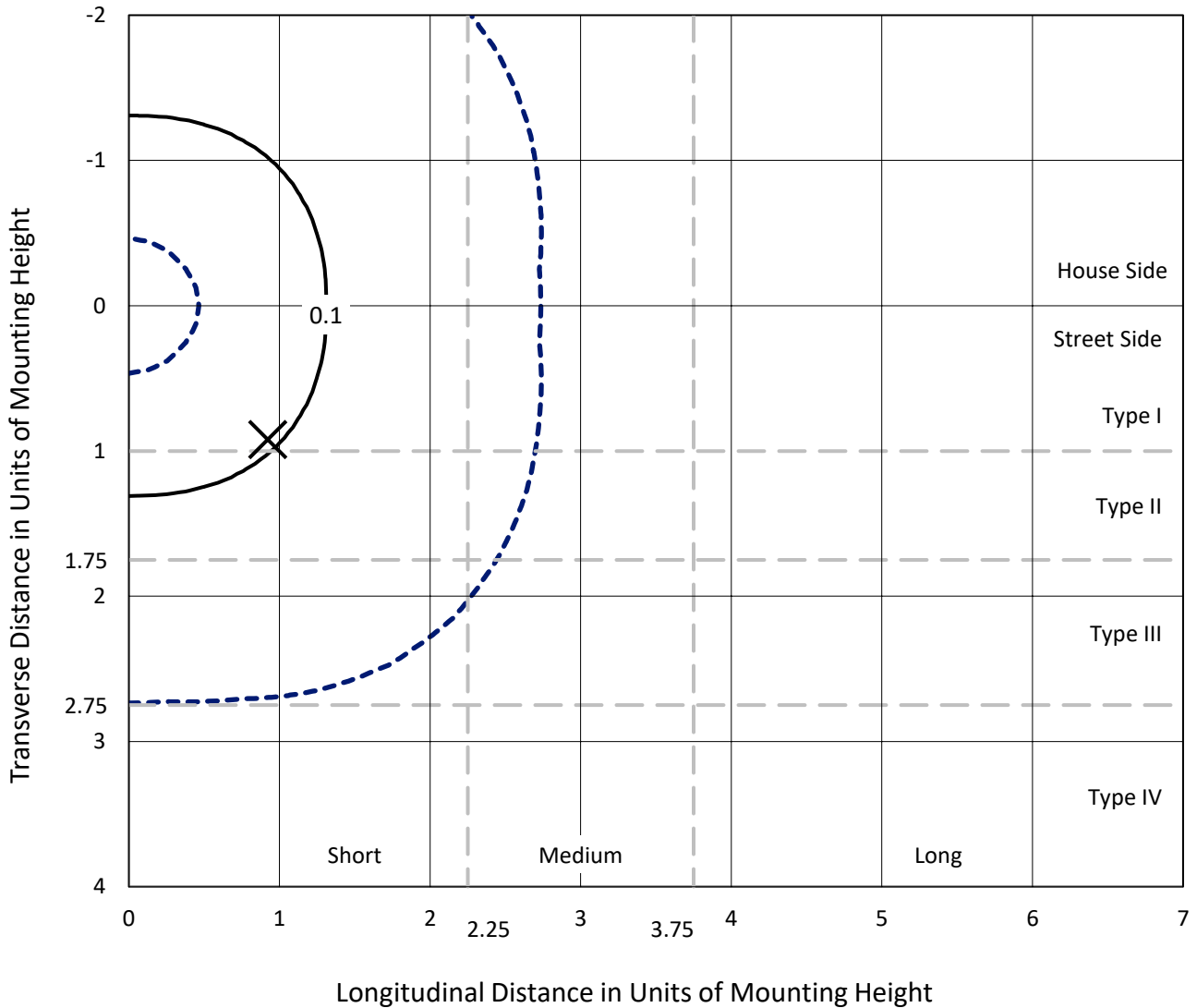
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

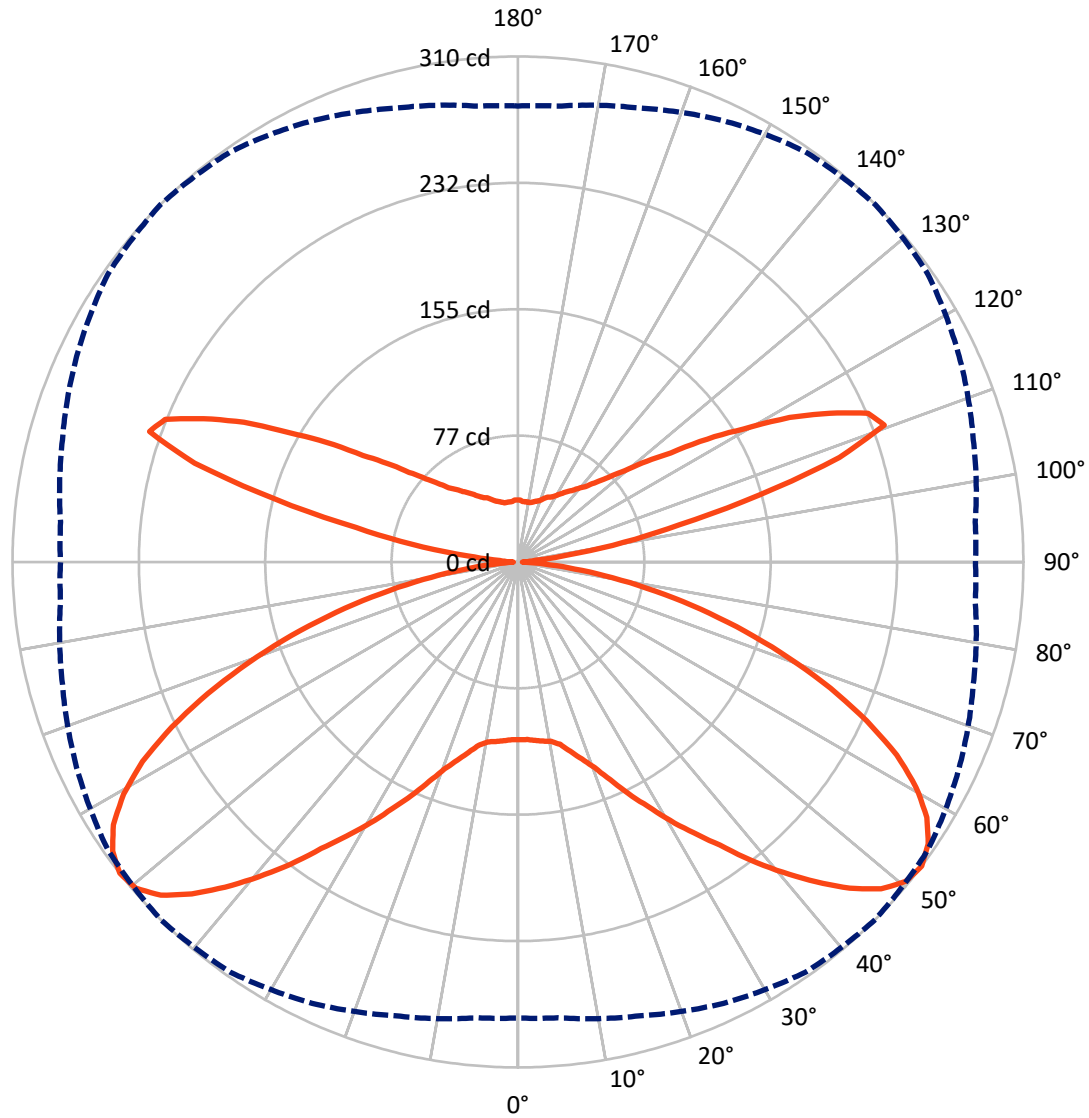
✕ Max cd
 - - - 1/2 Max cd



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 52.5-Deg Vertical

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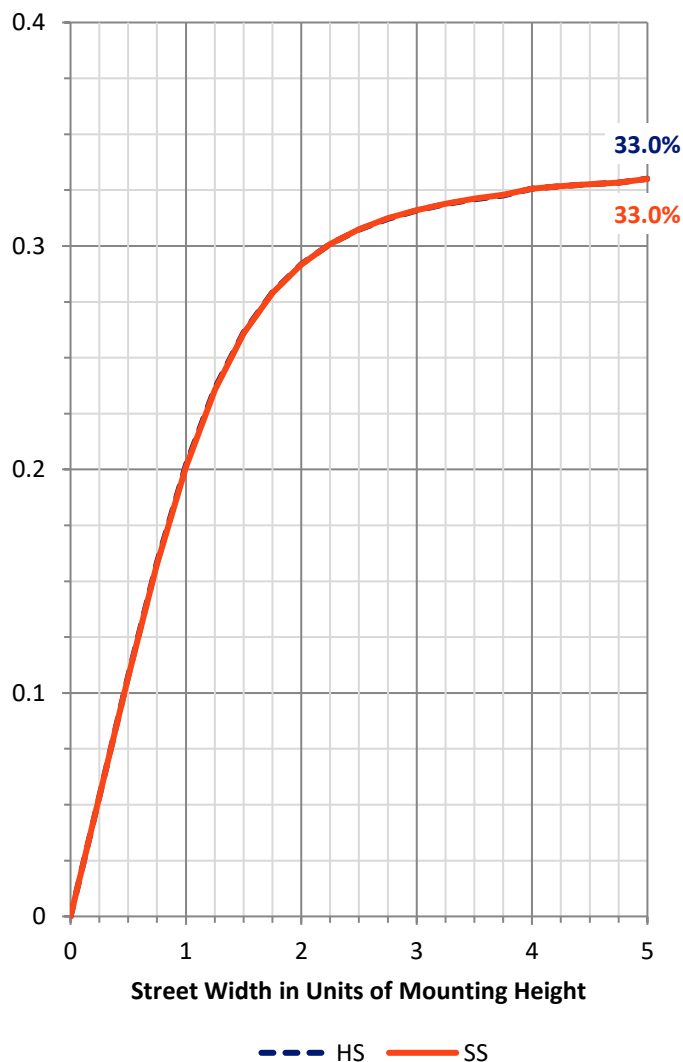
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.4	271.5	807.9
	% Fixture	33.2	16.8	50.0
Street Side	Lumens	536.4	271.5	807.9
	% Fixture	33.2	16.8	50.0
Total	Lumens	1072.7	543.0	1615.8
	% Fixture	66.4	33.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.7
10°-20°	34.6	2.1
20°-30°	73.0	4.5
30°-40°	133.4	8.3
40°-50°	212.3	13.1
50°-60°	256.7	15.9
60°-70°	215.9	13.4
70°-80°	114.4	7.1
80°-90°	21.9	1.4
90°-100°	12.1	0.8
100°-110°	123.2	7.6
110°-120°	180.1	11.1
120°-130°	104.5	6.5
130°-140°	55.4	3.4
140°-150°	32.9	2.0
150°-160°	20.2	1.3
160°-170°	11.0	0.7
170°-180°	3.6	0.2
0°-90°	1072.7	66.4
0°-180°	1615.8	100.0

Coefficient of Utilization



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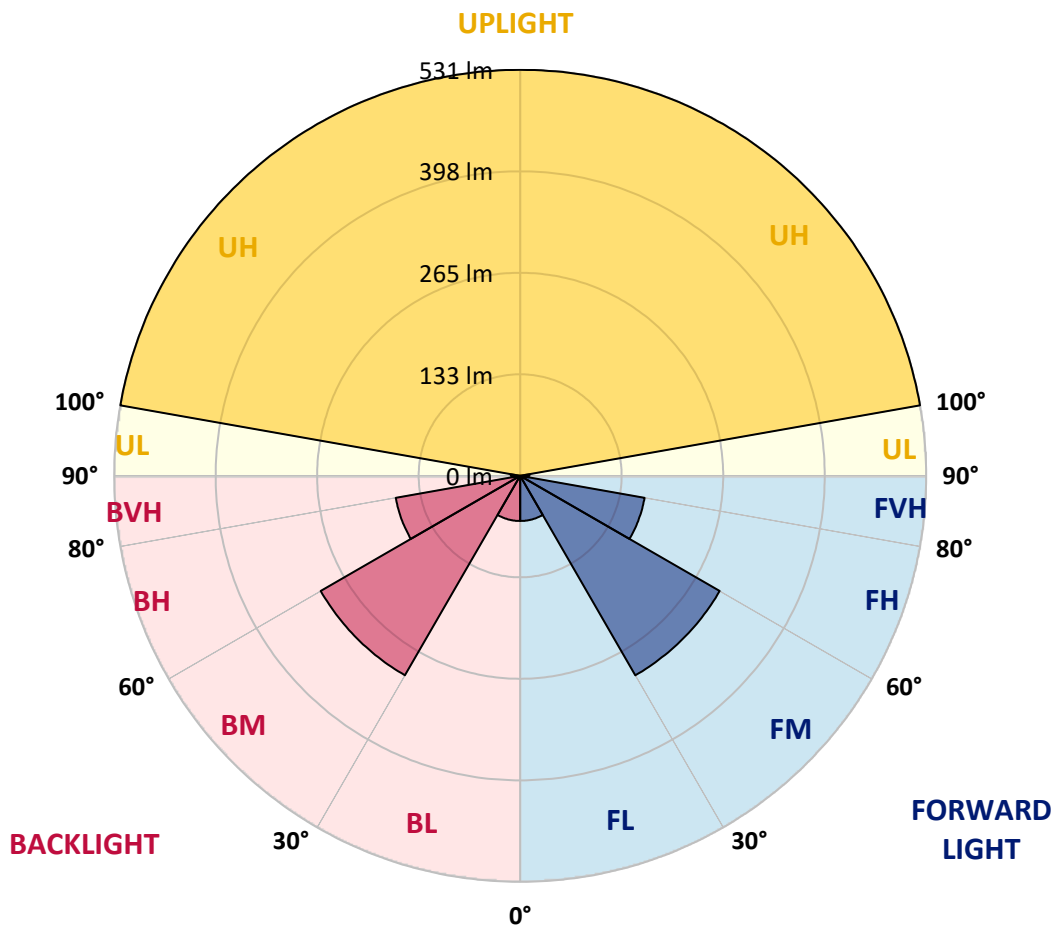
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	59.1	3.7			
FM (30°-60°)	301.2	18.6			
FH (60°-80°)	165.1	10.2			G0/660
FVH (80°-90°)	11.0	0.7			G1/100
BL (0°-30°)	59.1	3.7	B0/110		
BM (30°-60°)	301.2	18.6	B1/1000		
BH (60°-80°)	165.1	10.2	B1/500		G0/660
BVH (80°-90°)	11.0	0.7			G1/100
UL (90°-100°)	12.1	0.8		U2/50	
UH (100°-180°)	530.9	32.9		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°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
2.5°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
5°	109.9	109.9	109.0	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9
7.5°	109.9	109.9	109.9	110.9	110.9	110.9	110.9	109.9	109.9	109.9	109.9
10°	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8	111.8
12.5°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
15°	119.4	119.4	119.4	119.4	120.4	120.4	120.4	119.4	119.4	119.4	119.4
17.5°	125.1	125.1	126.0	126.0	127.0	127.0	127.0	126.0	125.1	126.0	125.1
20°	133.6	133.6	133.6	134.6	135.5	134.6	135.5	133.6	133.6	133.6	133.6
22.5°	143.1	143.1	143.1	144.1	145.0	145.0	145.0	143.1	143.1	143.1	143.1
25°	154.5	154.5	154.5	155.4	156.4	157.3	157.3	155.4	154.5	154.5	153.5
27.5°	165.9	165.9	167.7	168.7	169.6	169.6	169.6	167.7	166.8	166.8	166.8
30°	179.1	179.1	181.0	182.0	183.9	183.9	183.9	181.0	180.1	179.1	179.1
32.5°	191.4	192.4	194.3	196.2	198.1	198.1	199.0	195.2	193.3	192.4	192.4
35°	204.7	205.7	207.5	210.4	212.3	213.2	214.2	210.4	207.5	206.6	206.6
37.5°	219.9	220.8	223.7	226.5	230.3	232.2	233.1	227.5	222.7	220.8	220.8
40°	236.9	237.9	240.7	244.5	248.3	250.2	251.1	245.5	240.7	238.8	237.9
42.5°	251.1	253.0	255.9	261.6	265.4	268.2	268.2	261.6	255.9	253.0	253.0
45°	264.4	266.3	271.0	276.7	282.4	285.3	284.3	277.7	271.0	267.3	266.3
47.5°	274.8	276.7	282.4	289.1	296.6	299.5	298.5	290.9	282.4	277.7	276.7
50°	280.5	281.5	288.1	297.6	305.2	308.0	306.1	298.5	289.1	282.4	281.5
52.5°	279.6	280.5	288.1	298.5	307.1	309.9	307.1	298.5	289.1	281.5	280.5
55°	273.9	274.8	282.4	293.8	302.3	305.2	302.3	293.8	283.4	275.8	274.8
57.5°	263.5	264.4	272.0	283.4	292.8	295.7	291.9	282.4	272.0	264.4	264.4
60°	248.3	249.2	256.8	269.2	277.7	280.5	275.8	268.2	257.8	249.2	248.3
62.5°	228.4	228.4	236.9	249.2	256.8	260.6	255.9	247.4	237.9	228.4	229.3
65°	204.7	203.8	212.3	223.7	232.2	235.0	230.3	222.7	213.2	204.7	204.7
67.5°	180.1	180.1	186.7	196.2	203.8	206.6	201.9	195.2	187.6	180.1	180.1
70°	153.5	153.5	158.3	167.7	174.4	176.3	173.4	166.8	160.2	153.5	153.5
72.5°	127.0	126.0	130.8	138.4	144.1	145.9	143.1	139.3	131.7	127.0	127.0
75°	100.5	99.5	102.4	109.0	113.7	115.6	112.8	109.9	104.2	100.5	100.5
77.5°	74.9	73.9	76.8	82.5	85.3	86.2	84.3	82.5	77.7	74.9	74.9
80°	51.2	50.2	52.1	55.9	58.8	58.8	57.8	56.9	53.1	51.2	52.1
82.5°	30.3	29.4	31.3	34.1	36.0	35.1	35.1	34.1	31.3	30.3	30.3
85°	13.3	12.3	13.3	15.2	17.1	16.1	16.1	16.1	14.2	13.3	13.3
87.5°	1.9	1.9	1.9	2.8	3.8	2.8	2.8	2.8	1.9	1.9	1.9
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)