

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: P832829

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832829
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-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1695.8 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

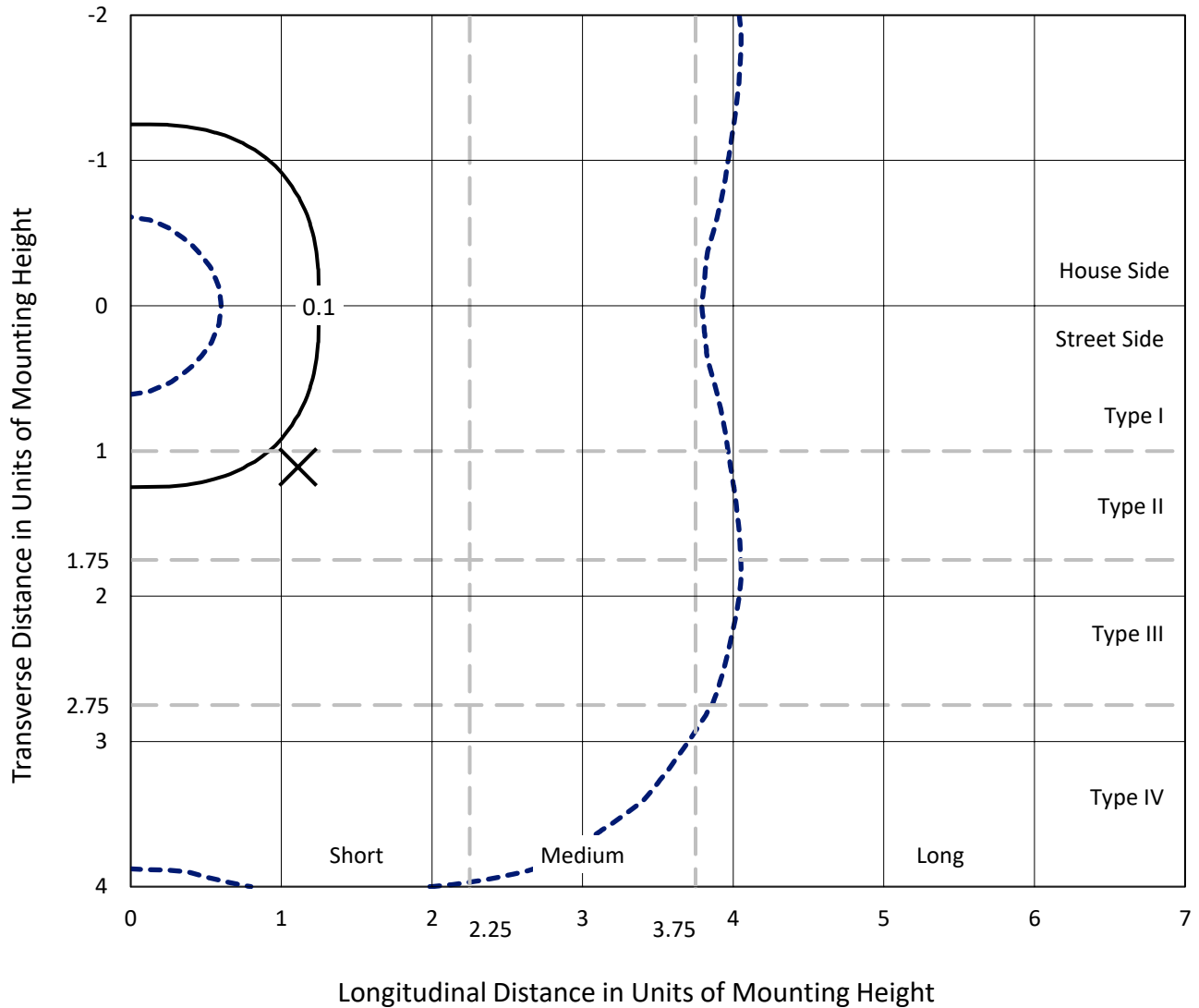
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

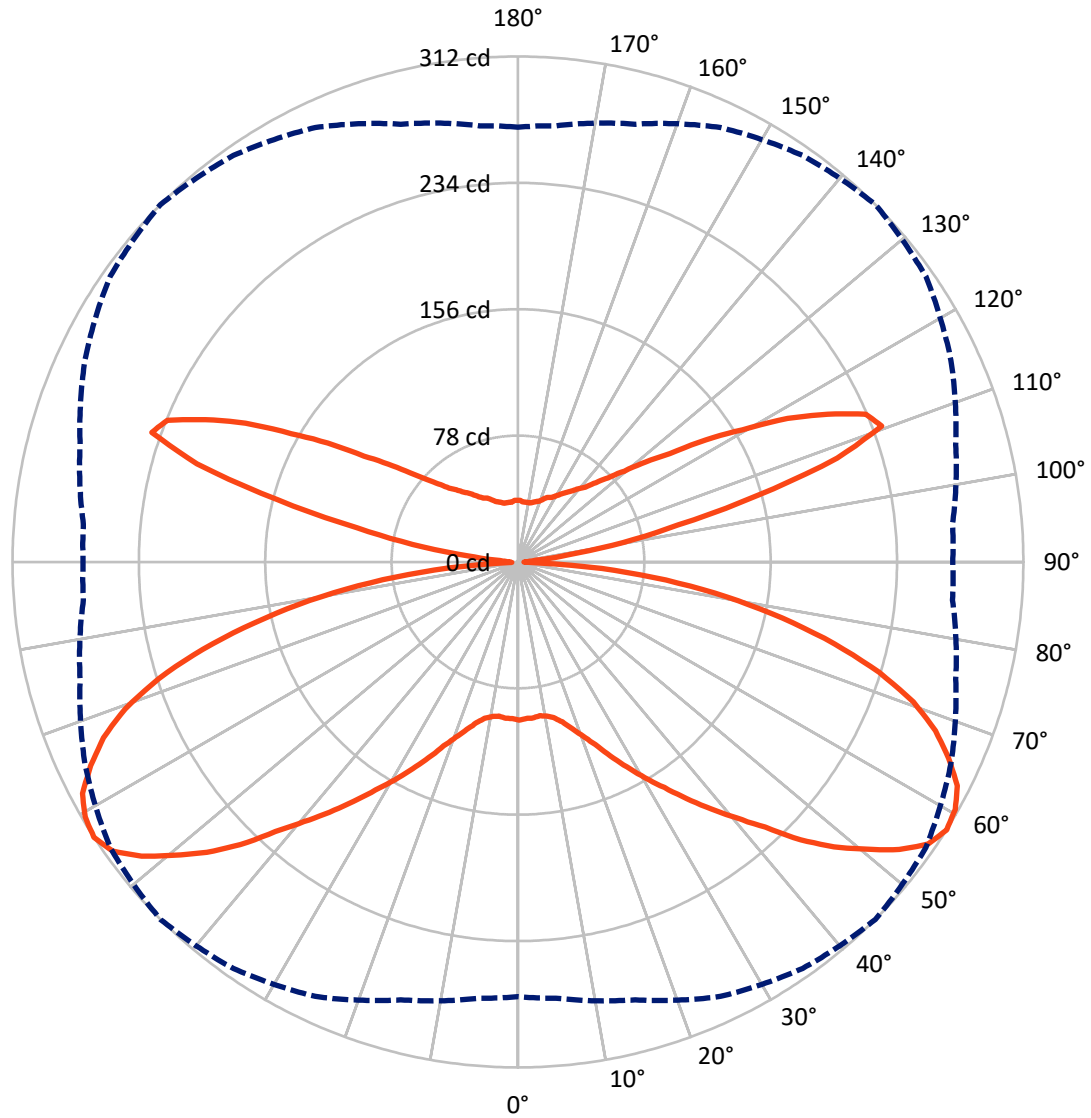
✕ Max cd
 - - - 1/2 Max cd



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 57.5-Deg Vertical

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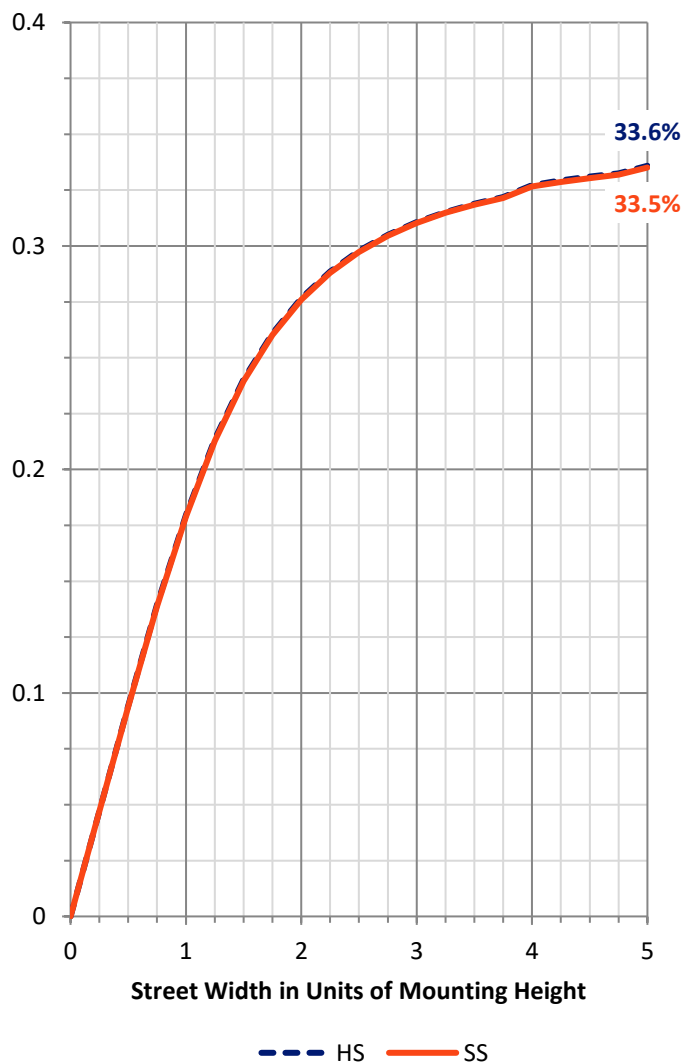
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.4	271.5	847.9
	% Fixture	34.0	16.0	50.0
Street Side	Lumens	576.4	271.5	847.9
	% Fixture	34.0	16.0	50.0
Total	Lumens	1152.7	543.0	1695.8
	% Fixture	68.0	32.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.5
10°-20°	29.3	1.7
20°-30°	61.5	3.6
30°-40°	111.5	6.6
40°-50°	181.7	10.7
50°-60°	254.4	15.0
60°-70°	265.6	15.7
70°-80°	189.8	11.2
80°-90°	49.8	2.9
90°-100°	12.1	0.7
100°-110°	123.2	7.3
110°-120°	180.1	10.6
120°-130°	104.5	6.2
130°-140°	55.4	3.3
140°-150°	32.9	1.9
150°-160°	20.2	1.2
160°-170°	11.0	0.7
170°-180°	3.6	0.2
0°-90°	1152.7	68.0
0°-180°	1695.8	100.0

Coefficient of Utilization



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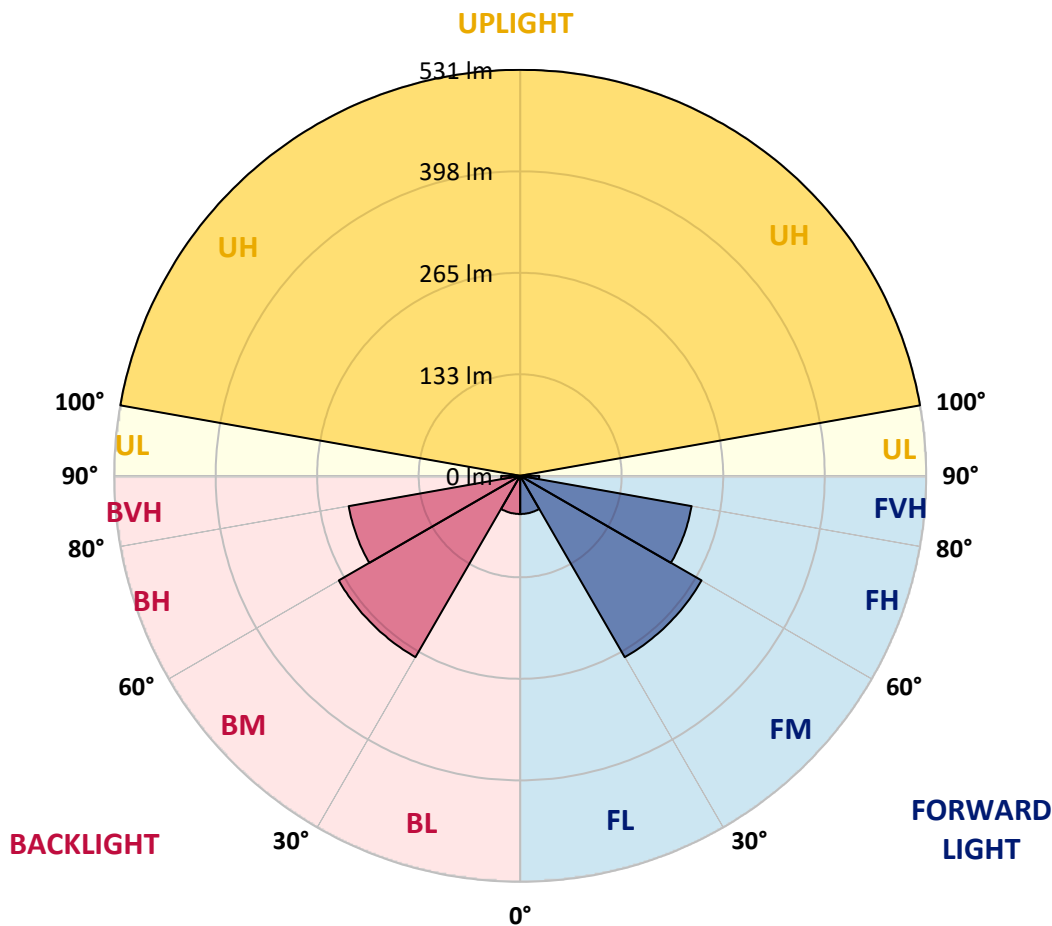
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.0	2.9			
FM (30°-60°)	273.8	16.1			
FH (60°-80°)	227.7	13.4			G0/660
FVH (80°-90°)	24.9	1.5			G1/100
BL (0°-30°)	50.0	2.9	B0/110		
BM (30°-60°)	273.8	16.1	B1/1000		
BH (60°-80°)	227.7	13.4	B1/500		G0/660
BVH (80°-90°)	24.9	1.5			G1/100
UL (90°-100°)	12.1	0.7		U2/50	
UH (100°-180°)	530.9	31.3		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°	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2.5°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
5°	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
7.5°	94.8	94.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
10°	94.8	94.8	95.8	95.8	96.7	96.7	96.7	95.8	95.8	94.8	94.8
12.5°	96.7	96.7	96.7	97.6	98.6	98.6	98.6	97.6	97.6	96.7	96.7
15°	99.5	100.5	100.5	101.4	102.4	102.4	102.4	101.4	101.4	100.5	100.5
17.5°	105.2	105.2	105.2	106.2	107.1	108.1	108.1	106.2	106.2	105.2	106.2
20°	110.9	111.9	111.9	112.8	113.8	114.7	113.8	112.8	111.9	111.9	111.9
22.5°	119.5	119.5	120.4	120.4	122.3	122.3	122.3	120.4	120.4	120.4	120.4
25°	128.9	128.9	129.9	130.8	132.7	132.7	131.8	129.9	129.9	129.9	130.8
27.5°	140.3	140.3	141.3	141.3	143.2	143.2	142.2	141.3	141.3	141.3	142.2
30°	150.7	150.7	152.6	153.6	154.5	154.5	154.5	152.6	152.6	151.7	151.7
32.5°	160.2	161.2	162.1	165.0	166.9	165.9	166.9	165.0	163.1	162.1	162.1
35°	170.6	171.6	173.5	176.3	179.2	179.2	179.2	176.3	174.4	172.5	173.5
37.5°	183.0	183.0	185.8	188.7	192.5	193.4	192.5	189.6	186.8	184.9	184.9
40°	196.2	196.2	199.1	201.9	206.7	207.6	206.7	202.9	199.1	198.1	198.1
42.5°	209.5	209.5	213.3	216.2	221.8	223.7	221.8	217.1	213.3	210.5	211.4
45°	223.7	224.7	229.4	235.1	241.7	244.6	241.7	236.1	230.4	224.7	224.7
47.5°	239.9	239.9	245.5	252.2	259.8	262.6	258.8	253.1	245.5	240.8	240.8
50°	250.3	251.2	258.8	267.3	276.8	278.7	275.9	267.3	258.8	252.2	251.2
52.5°	260.7	261.7	270.2	282.5	292.0	294.8	291.0	282.5	270.2	261.7	261.7
55°	267.3	269.2	278.7	292.0	302.4	307.2	301.5	292.0	277.8	268.3	267.3
57.5°	268.3	270.2	279.7	295.8	306.2	311.9	307.2	294.8	279.7	269.2	268.3
60°	266.4	267.3	276.8	293.9	306.2	310.0	306.2	292.9	275.9	267.3	265.5
62.5°	261.7	263.6	273.0	287.3	301.5	304.3	300.5	286.3	272.1	261.7	259.8
65°	246.5	248.4	262.6	276.8	289.2	292.0	289.2	276.8	261.7	246.5	244.6
67.5°	229.4	230.4	244.6	261.7	273.0	277.8	273.0	262.6	243.6	229.4	227.5
70°	211.4	212.4	223.7	241.7	253.1	258.8	254.1	242.7	222.8	210.5	209.5
72.5°	190.6	190.6	201.9	216.2	227.5	233.2	229.4	215.2	200.0	187.7	185.8
75°	162.1	163.1	175.4	185.8	198.1	201.9	198.1	186.8	172.5	160.2	158.3
77.5°	132.7	133.7	144.1	152.6	164.0	166.9	164.0	154.5	141.3	130.8	129.9
80°	100.5	101.4	110.0	117.6	127.0	130.8	128.0	118.5	108.1	98.6	95.8
82.5°	65.4	66.4	74.9	80.6	89.1	92.0	90.1	81.5	73.0	63.5	62.6
85°	29.4	30.3	37.9	42.7	49.3	52.1	50.2	42.7	36.0	27.5	25.6
87.5°	2.8	2.8	2.8	2.8	2.8	3.8	3.8	2.8	2.8	2.8	2.8
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)