

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: P832814

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832814
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-MQ-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1751.7 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

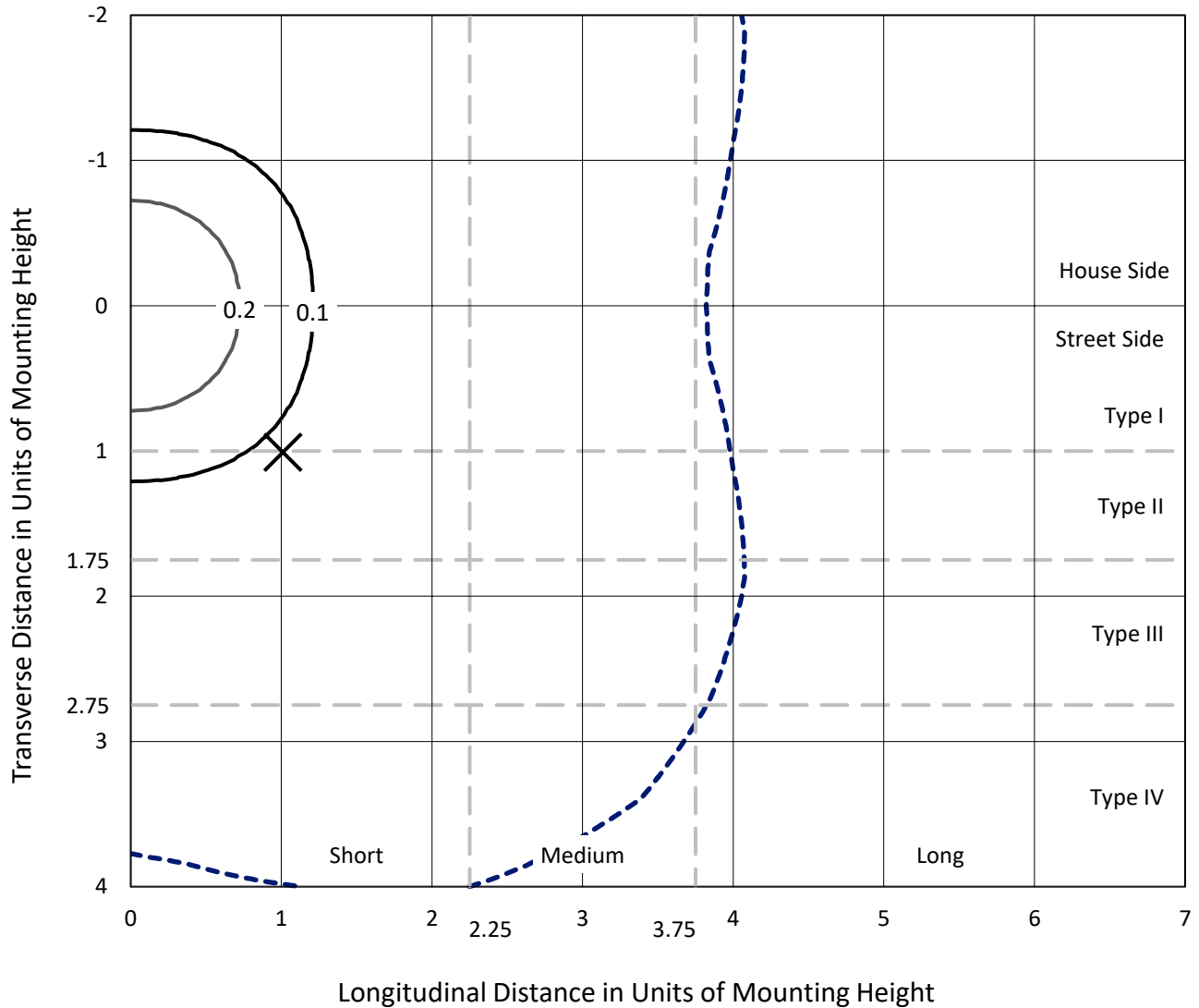
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

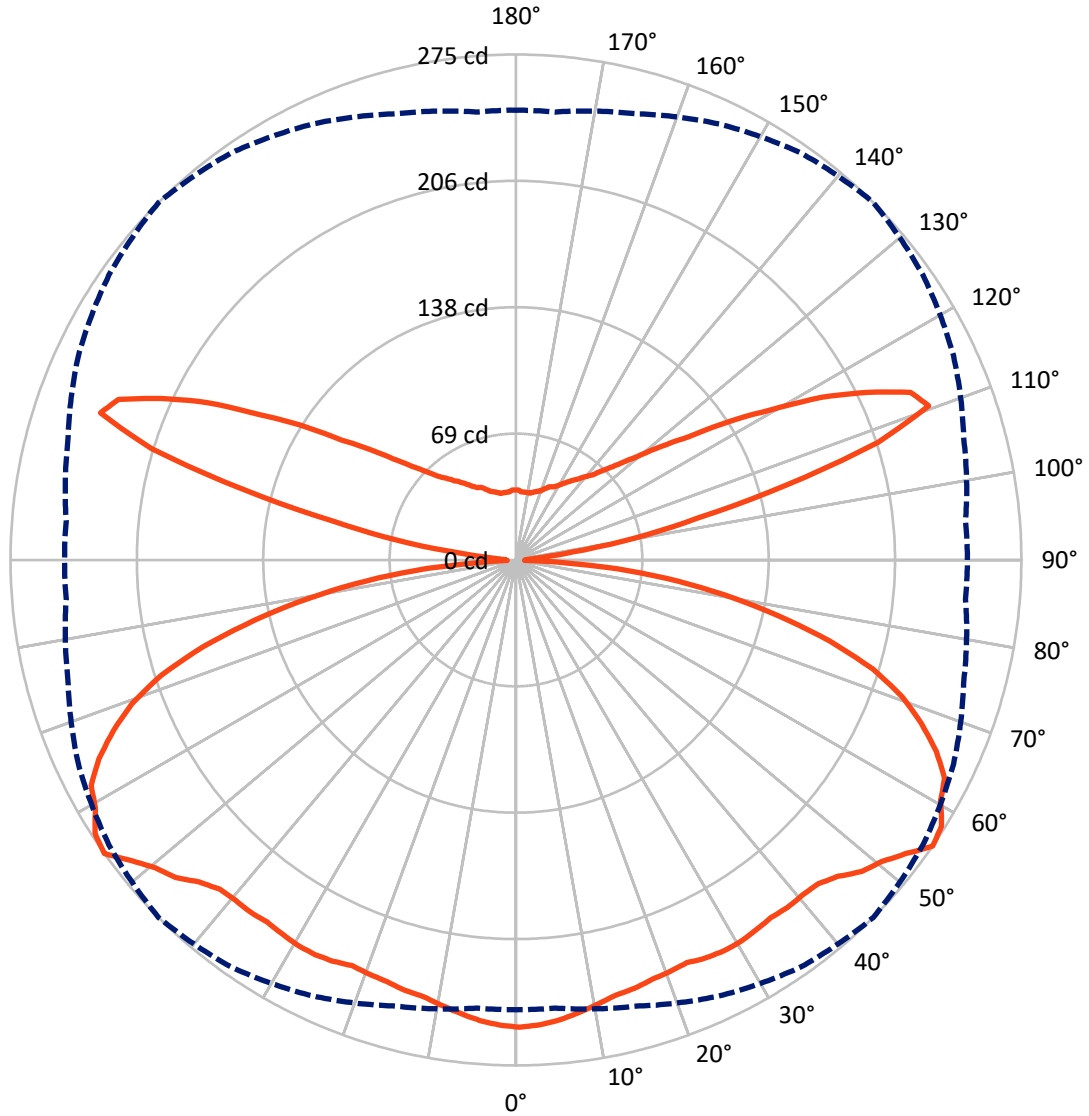
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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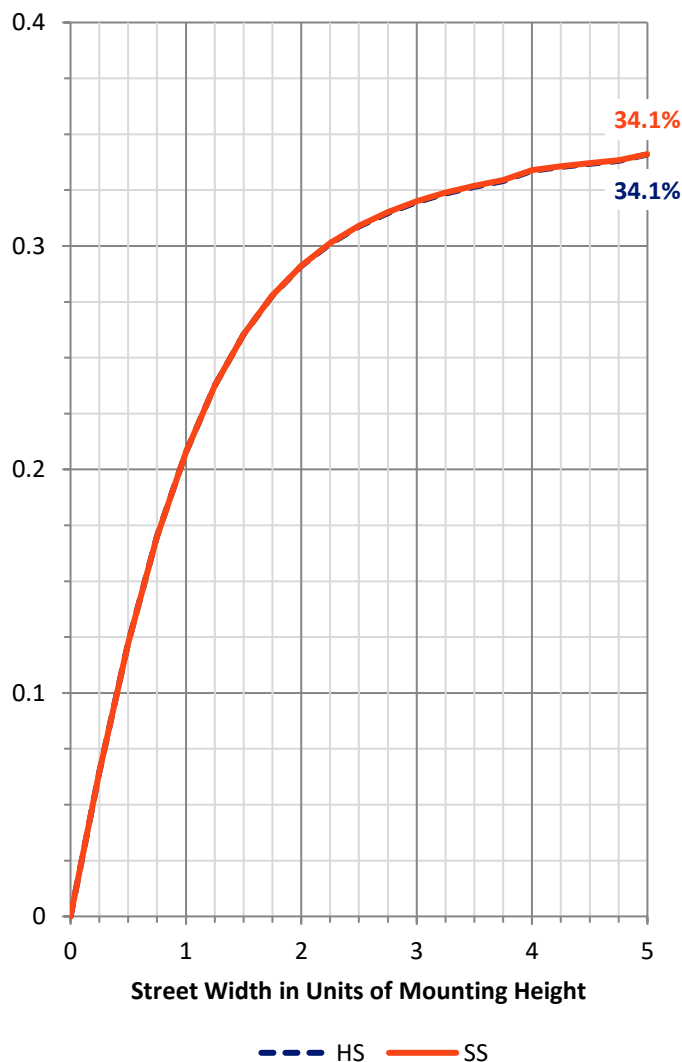
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.4	271.5	875.9
	% Fixture	34.5	15.5	50.0
Street Side	Lumens	604.4	271.5	875.9
	% Fixture	34.5	15.5	50.0
Total	Lumens	1208.7	543.0	1751.7
	% Fixture	69.0	31.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	1.4
10°-20°	68.3	3.9
20°-30°	110.4	6.3
30°-40°	149.3	8.5
40°-50°	187.1	10.7
50°-60°	229.3	13.1
60°-70°	229.8	13.1
70°-80°	165.8	9.5
80°-90°	44.9	2.6
90°-100°	12.1	0.7
100°-110°	123.2	7.0
110°-120°	180.1	10.3
120°-130°	104.5	6.0
130°-140°	55.4	3.2
140°-150°	32.9	1.9
150°-160°	20.2	1.2
160°-170°	11.0	0.6
170°-180°	3.6	0.2
0°-90°	1208.7	69.0
0°-180°	1751.7	100.0

Coefficient of Utilization



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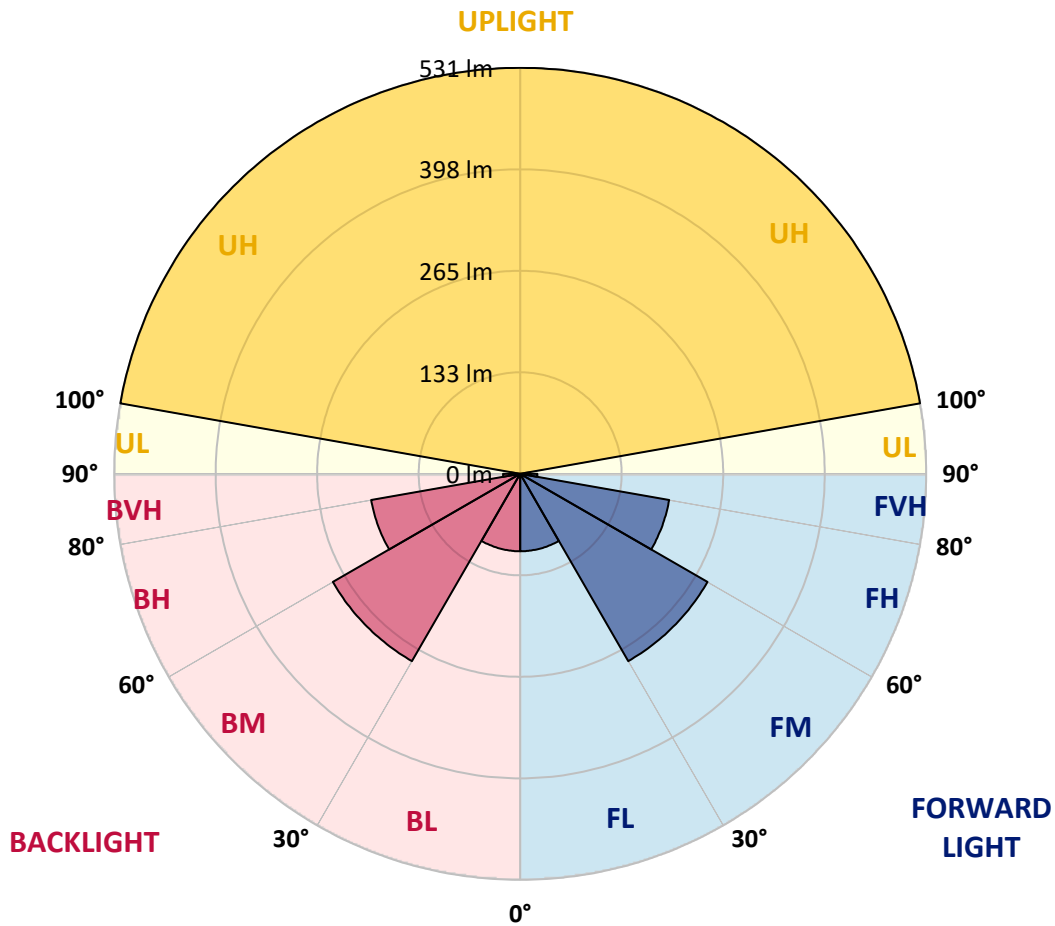
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.2	5.8			
FM (30°-60°)	282.8	16.1			
FH (60°-80°)	197.8	11.3			G0/660
FVH (80°-90°)	22.5	1.3			G1/100
BL (0°-30°)	101.2	5.8	B0/110		
BM (30°-60°)	282.8	16.1	B1/1000		
BH (60°-80°)	197.8	11.3	B1/500		G0/660
BVH (80°-90°)	22.5	1.3			G1/100
UL (90°-100°)	12.1	0.7		U2/50	
UH (100°-180°)	530.9	30.3		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°	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2	254.2
2.5°	253.2	253.2	253.2	252.3	253.2	253.2	253.2	253.2	253.2	253.2	253.2
5°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3
7.5°	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
10°	244.7	244.7	244.7	244.7	245.6	245.6	245.6	245.6	244.7	244.7	244.7
12.5°	241.8	241.8	241.8	242.8	242.8	242.8	242.8	242.8	242.8	242.8	241.8
15°	240.9	240.9	240.9	240.9	241.8	241.8	241.8	241.8	240.9	240.9	240.9
17.5°	239.0	239.0	239.0	239.9	239.9	239.9	239.9	239.9	239.0	239.0	239.0
20°	237.1	237.1	238.0	238.0	239.0	239.0	239.0	238.0	238.0	237.1	238.0
22.5°	237.1	237.1	237.1	238.0	238.0	238.0	238.0	237.1	237.1	237.1	237.1
25°	237.1	237.1	238.0	239.0	239.0	239.9	239.0	238.0	237.1	237.1	237.1
27.5°	238.0	238.0	239.0	239.9	239.9	240.9	239.9	239.0	238.0	238.0	238.0
30°	238.0	238.0	239.0	239.9	239.9	240.9	239.9	239.0	238.0	238.0	238.0
32.5°	236.1	237.1	238.0	239.0	239.9	239.9	239.9	239.0	238.0	237.1	237.1
35°	235.2	236.1	237.1	238.0	239.0	239.0	239.0	238.0	237.1	236.1	236.1
37.5°	234.2	234.2	236.1	237.1	238.0	239.9	239.0	237.1	236.1	235.2	235.2
40°	233.3	234.2	235.2	237.1	238.0	239.9	239.0	237.1	235.2	234.2	234.2
42.5°	233.3	233.3	235.2	237.1	239.0	240.9	239.9	238.0	235.2	234.2	233.3
45°	234.2	235.2	238.0	241.8	243.7	245.6	244.7	241.8	237.1	235.2	234.2
47.5°	238.0	239.0	241.8	245.6	250.4	253.2	250.4	245.6	241.8	239.0	238.0
50°	239.9	240.9	245.6	250.4	257.0	257.9	257.0	250.4	245.6	240.9	240.9
52.5°	243.7	243.7	249.4	257.9	263.6	265.5	263.6	258.9	249.4	244.7	243.7
55°	244.7	244.7	251.3	261.7	270.3	275.0	270.3	262.7	252.3	245.6	245.6
57.5°	239.0	240.9	249.4	259.8	270.3	273.1	270.3	260.8	250.4	241.8	240.9
60°	232.3	235.2	242.8	255.1	262.7	265.5	263.6	255.1	243.7	235.2	234.2
62.5°	225.7	229.5	238.0	247.5	258.9	261.7	258.9	247.5	238.0	229.5	225.7
65°	211.5	215.3	227.6	239.0	249.4	251.3	250.4	239.0	227.6	215.3	213.4
67.5°	197.3	200.1	208.6	226.7	235.2	238.0	236.1	225.7	209.6	200.1	199.2
70°	182.1	184.9	192.5	209.6	218.1	222.9	219.1	209.6	192.5	184.9	184.0
72.5°	162.2	166.0	174.5	189.7	198.2	202.9	199.2	189.7	174.5	165.0	163.1
75°	138.5	141.3	151.7	164.1	172.6	176.4	173.5	165.0	151.7	141.3	140.4
77.5°	112.9	115.7	125.2	137.5	142.3	146.0	143.2	136.6	125.2	115.7	114.7
80°	85.4	88.2	96.7	106.2	111.0	114.7	111.9	105.3	96.7	88.2	87.2
82.5°	56.0	58.8	66.4	74.0	78.7	82.5	79.7	73.0	67.3	58.8	57.8
85°	23.7	26.6	33.2	40.8	44.6	48.4	45.5	39.8	33.2	27.5	26.6
87.5°	1.9	2.8	2.8	3.8	2.8	4.7	2.8	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)