

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: P832976

Luminaire Tested: **TTN-D0-830-U-WQ-SG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832976
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-D0-830-U-WQ-SG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1547.8 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

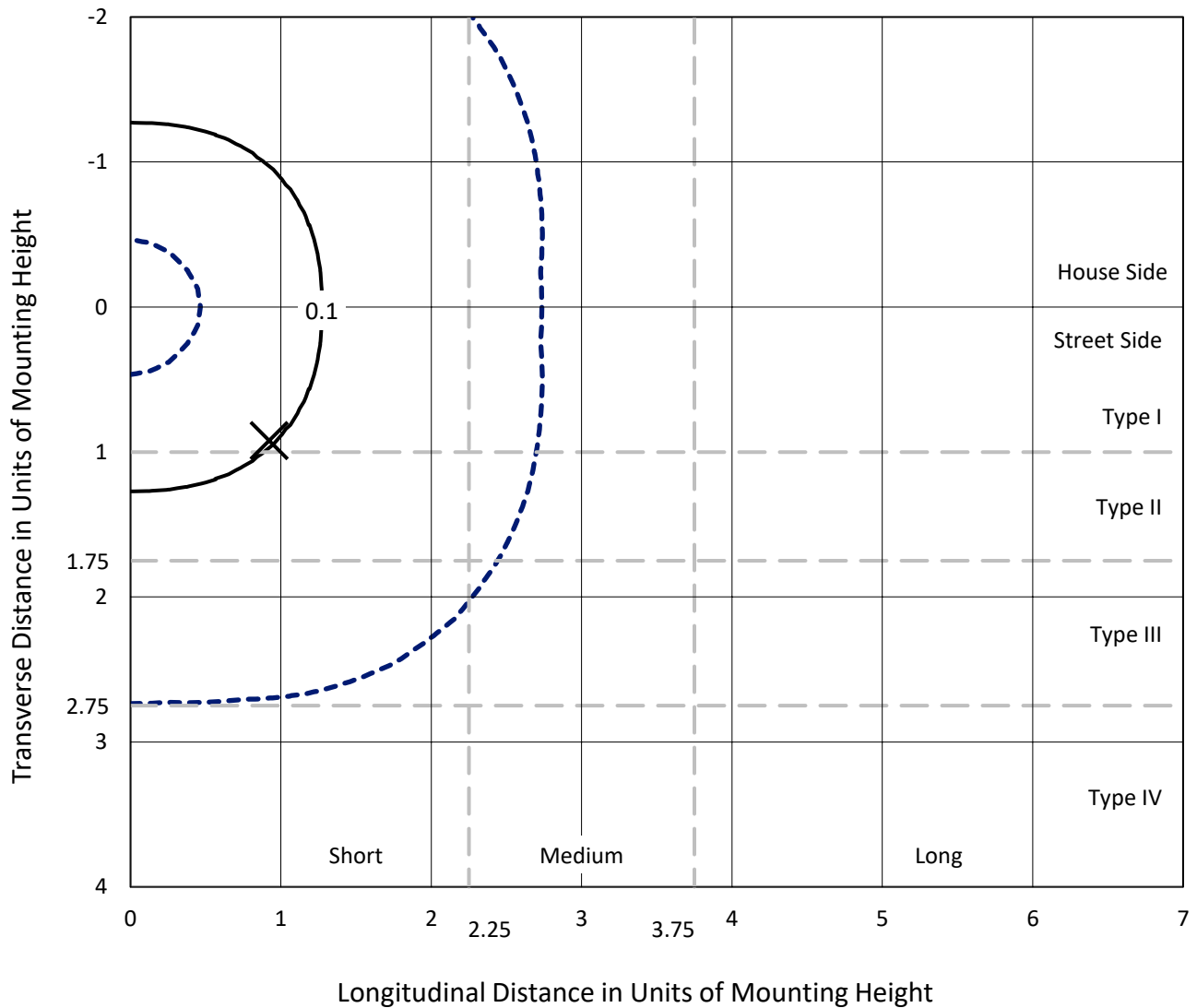
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

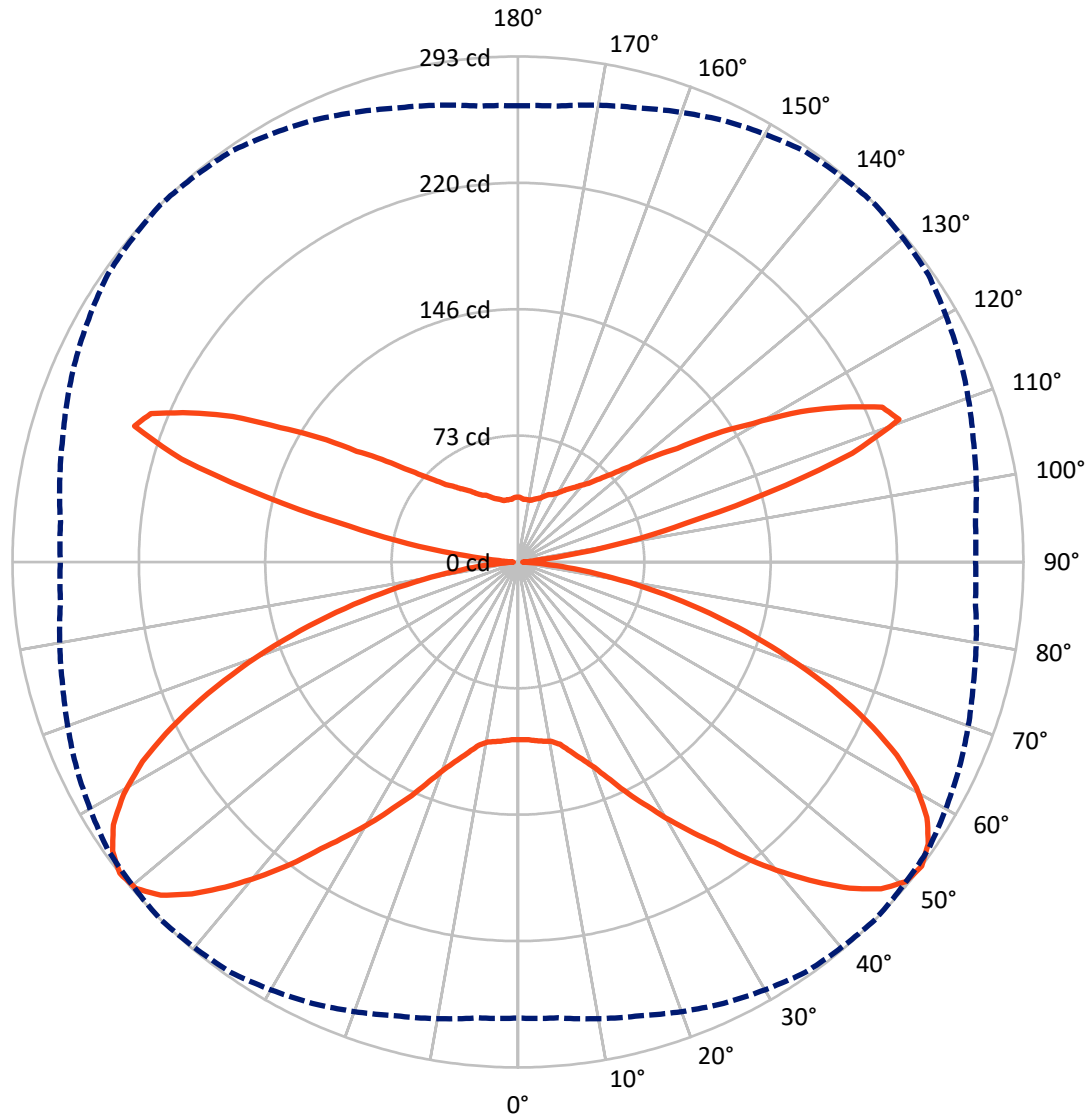
× Max cd
 - - - 1/2 Max cd



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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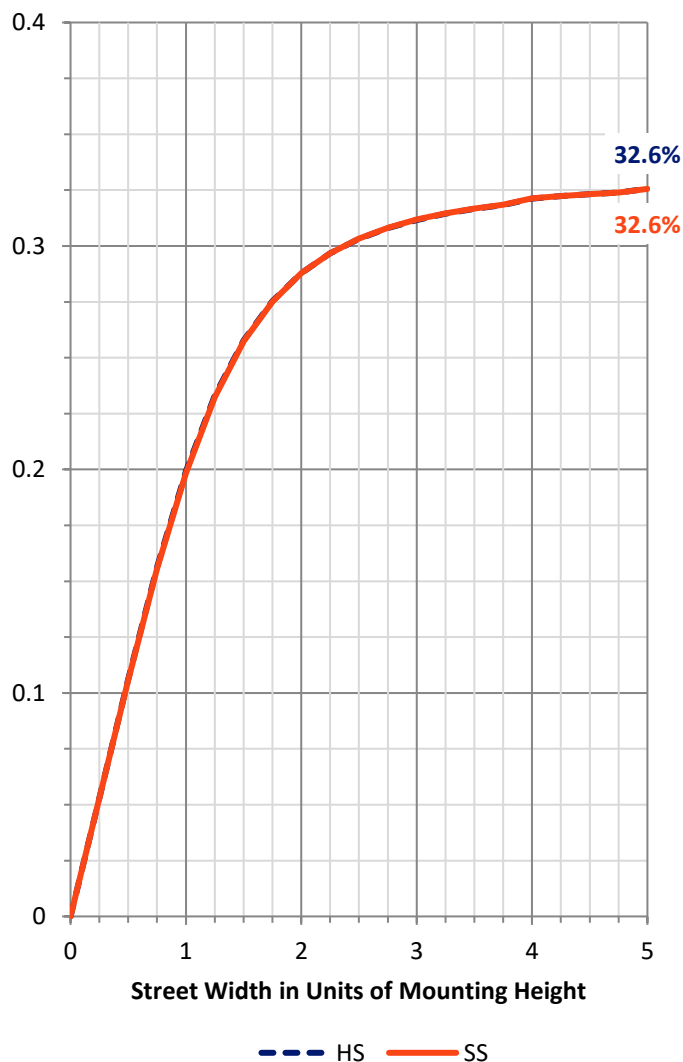
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.9	267.0	773.9
	% Fixture	32.7	17.3	50.0
Street Side	Lumens	506.9	267.0	773.9
	% Fixture	32.7	17.3	50.0
Total	Lumens	1013.7	534.0	1547.8
	% Fixture	65.5	34.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.6
10°-20°	32.7	2.1
20°-30°	69.0	4.5
30°-40°	126.0	8.1
40°-50°	200.6	13.0
50°-60°	242.6	15.7
60°-70°	204.0	13.2
70°-80°	108.1	7.0
80°-90°	20.7	1.3
90°-100°	11.9	0.8
100°-110°	121.1	7.8
110°-120°	177.1	11.4
120°-130°	102.8	6.6
130°-140°	54.4	3.5
140°-150°	32.3	2.1
150°-160°	19.9	1.3
160°-170°	10.9	0.7
170°-180°	3.5	0.2
0°-90°	1013.7	65.5
0°-180°	1547.8	100.0

Coefficient of Utilization

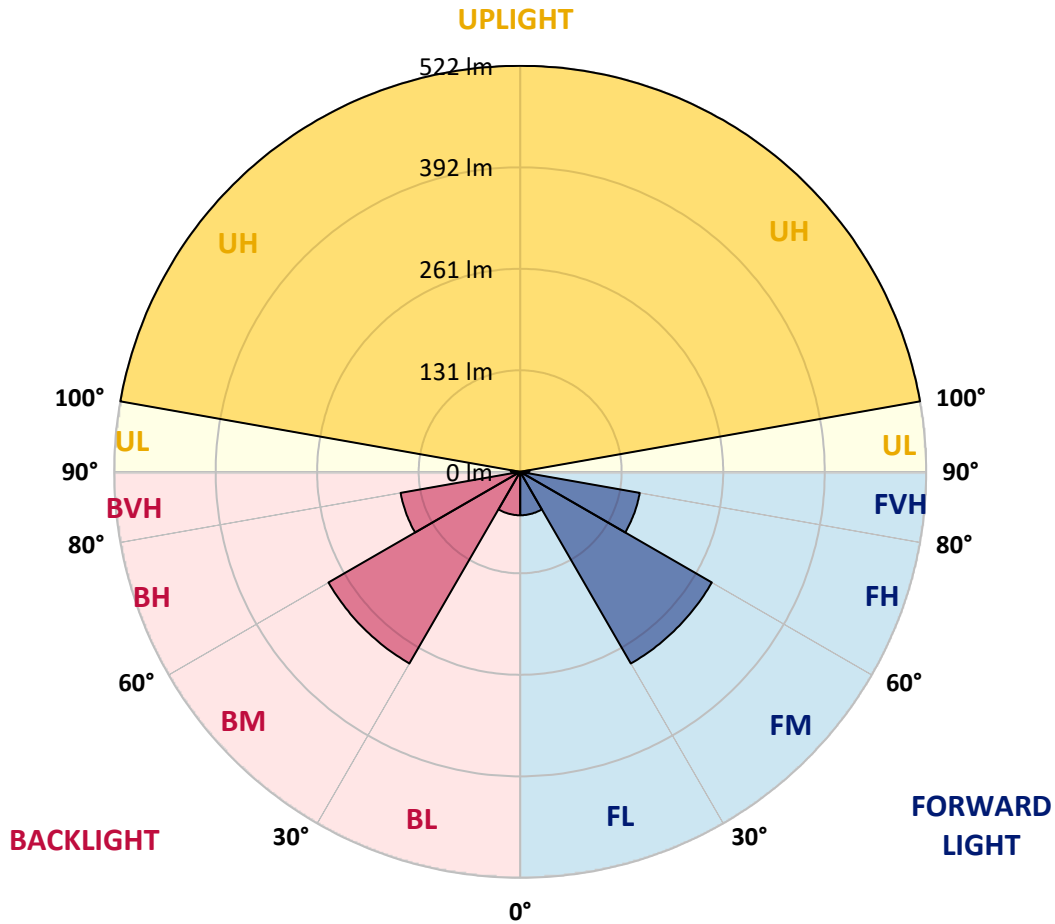


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	55.8	3.6			
FM (30°-60°)	284.6	18.4			
FH (60°-80°)	156.1	10.1			G0/660
FVH (80°-90°)	10.4	0.7			G1/100
BL (0°-30°)	55.8	3.6	B0/110		
BM (30°-60°)	284.6	18.4	B1/1000		
BH (60°-80°)	156.1	10.1	B1/500		G0/660
BVH (80°-90°)	10.4	0.7			G1/100
UL (90°-100°)	11.9	0.8		U2/50	
UH (100°-180°)	522.1	33.7		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°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
5°	103.9	103.9	103.0	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9
7.5°	103.9	103.9	103.9	104.8	104.8	104.8	104.8	103.9	103.9	103.9	103.9
10°	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7	105.7
12.5°	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4
15°	112.8	112.8	112.8	112.8	113.7	113.7	113.7	112.8	112.8	112.8	112.8
17.5°	118.2	118.2	119.1	119.1	120.0	120.0	120.0	119.1	118.2	119.1	118.2
20°	126.3	126.3	126.3	127.2	128.1	127.2	128.1	126.3	126.3	126.3	126.3
22.5°	135.2	135.2	135.2	136.1	137.0	137.0	137.0	135.2	135.2	135.2	135.2
25°	146.0	146.0	146.0	146.9	147.8	148.7	148.7	146.9	146.0	146.0	145.1
27.5°	156.7	156.7	158.5	159.4	160.3	160.3	160.3	158.5	157.6	157.6	157.6
30°	169.3	169.3	171.1	171.9	173.7	173.7	173.7	171.1	170.2	169.3	169.3
32.5°	180.9	181.8	183.6	185.4	187.2	187.2	188.1	184.5	182.7	181.8	181.8
35°	193.4	194.3	196.1	198.8	200.6	201.5	202.4	198.8	196.1	195.2	195.2
37.5°	207.8	208.7	211.4	214.0	217.6	219.4	220.3	214.9	210.5	208.7	208.7
40°	223.9	224.8	227.5	231.1	234.6	236.4	237.3	231.9	227.5	225.7	224.8
42.5°	237.3	239.1	241.8	247.2	250.8	253.4	253.4	247.2	241.8	239.1	239.1
45°	249.9	251.7	256.1	261.5	266.9	269.6	268.7	262.4	256.1	252.5	251.7
47.5°	259.7	261.5	266.9	273.1	280.3	283.0	282.1	274.9	266.9	262.4	261.5
50°	265.1	266.0	272.2	281.2	288.4	291.1	289.3	282.1	273.1	266.9	266.0
52.5°	264.2	265.1	272.2	282.1	290.2	292.8	290.2	282.1	273.1	266.0	265.1
55°	258.8	259.7	266.9	277.6	285.7	288.4	285.7	277.6	267.8	260.6	259.7
57.5°	249.0	249.9	257.0	267.8	276.7	279.4	275.8	266.9	257.0	249.9	249.9
60°	234.6	235.5	242.7	254.3	262.4	265.1	260.6	253.4	243.6	235.5	234.6
62.5°	215.8	215.8	223.9	235.5	242.7	246.3	241.8	233.7	224.8	215.8	216.7
65°	193.4	192.5	200.6	211.4	219.4	222.1	217.6	210.5	201.5	193.4	193.4
67.5°	170.2	170.2	176.4	185.4	192.5	195.2	190.8	184.5	177.3	170.2	170.2
70°	145.1	145.1	149.6	158.5	164.8	166.6	163.9	157.6	151.3	145.1	145.1
72.5°	120.0	119.1	123.6	130.8	136.1	137.9	135.2	131.6	124.5	120.0	120.0
75°	94.9	94.0	96.7	103.0	107.5	109.3	106.6	103.9	98.5	94.9	94.9
77.5°	70.7	69.9	72.5	77.9	80.6	81.5	79.7	77.9	73.4	70.7	70.7
80°	48.4	47.5	49.3	52.8	55.5	55.5	54.6	53.7	50.2	48.4	49.3
82.5°	28.7	27.8	29.6	32.2	34.0	33.1	33.1	32.2	29.6	28.7	28.7
85°	12.5	11.6	12.5	14.3	16.1	15.2	15.2	15.2	13.4	12.5	12.5
87.5°	1.8	1.8	1.8	2.7	3.6	2.7	2.7	2.7	1.8	1.8	1.8
90°	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6
92.5°	4.6	4.6	4.6	6.4	7.3	6.4	7.3	5.5	5.5	4.6	4.6
95°	5.5	5.5	6.4	8.2	10.1	11.0	11.0	6.4	6.4	5.5	5.5
97.5°	7.3	8.2	8.2	10.1	16.4	30.2	18.3	9.1	9.1	8.2	7.3
100°	11.9	12.8	12.8	22.8	48.4	64.9	46.6	23.8	17.4	12.8	12.8
102.5°	38.4	40.2	49.3	74.0	109.6	99.6	84.1	79.5	54.8	43.9	42.0
105°	97.8	96.8	104.2	123.3	153.5	150.8	138.9	126.1	108.7	100.5	100.5
107.5°	128.8	128.8	135.2	151.7	174.5	203.7	206.5	163.5	143.4	134.3	133.4
110°	145.3	145.3	150.8	164.5	194.6	235.7	233.9	201.9	177.3	165.4	163.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	148.9	149.8	157.1	178.2	211.1	229.3	221.1	208.3	197.4	188.2	186.4
115°	154.4	154.4	162.6	182.7	201.0	208.3	199.2	189.1	181.8	178.2	180.0
117.5°	152.6	155.3	157.1	168.1	180.0	185.5	180.9	167.2	161.7	159.9	157.1
120°	141.6	141.6	143.4	148.9	155.3	158.1	156.2	147.1	142.5	141.6	139.8
122.5°	126.1	127.0	126.1	128.8	133.4	136.1	134.3	127.0	125.2	125.2	123.3
125°	110.6	110.6	109.6	111.5	114.2	113.3	114.2	110.6	109.6	109.6	108.7
127.5°	99.6	98.7	96.8	97.8	98.7	98.7	99.6	95.9	96.8	97.8	96.8
130°	88.6	88.6	86.8	86.8	86.8	85.0	86.8	85.0	85.9	86.8	87.7
132.5°	78.6	78.6	75.8	74.9	74.9	74.9	75.8	74.9	76.7	78.6	78.6
135°	70.4	70.4	67.6	68.5	68.5	67.6	68.5	67.6	69.4	70.4	70.4
137.5°	64.0	64.0	62.1	62.1	62.1	61.2	62.1	62.1	63.0	64.9	65.8
140°	58.5	58.5	57.6	57.6	56.6	57.6	57.6	57.6	58.5	59.4	59.4
142.5°	55.7	54.8	53.9	53.0	53.9	53.9	53.9	53.0	53.9	55.7	55.7
145°	51.2	51.2	50.3	50.3	50.3	51.2	50.3	50.3	51.2	51.2	52.1
147.5°	48.4	48.4	47.5	48.4	48.4	48.4	48.4	47.5	48.4	48.4	49.3
150°	47.5	46.6	45.7	46.6	46.6	45.7	45.7	45.7	45.7	46.6	46.6
152.5°	44.8	44.8	43.9	44.8	43.9	43.9	43.9	43.9	43.9	44.8	45.7
155°	42.9	42.9	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
157.5°	41.1	42.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	42.0	42.0
160°	40.2	40.2	40.2	40.2	39.3	39.3	39.3	40.2	40.2	40.2	41.1
162.5°	39.3	39.3	39.3	39.3	38.4	38.4	38.4	38.4	39.3	39.3	40.2
165°	39.3	38.4	38.4	38.4	37.5	37.5	37.5	37.5	38.4	39.3	38.4
167.5°	37.5	37.5	37.5	37.5	37.5	36.5	36.5	37.5	37.5	37.5	38.4
170°	37.5	37.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	37.5
172.5°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	36.5	36.5	37.5	37.5
175°	37.5	37.5	37.5	37.5	36.5	36.5	36.5	37.5	37.5	37.5	36.5
177.5°	37.5	37.5	37.5	37.5	36.5	37.5	37.5	37.5	37.5	37.5	37.5
180°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5

(END OF REPORT)