

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: P832967

Luminaire Tested: **TTN-D0-830-U-RW-CG-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832967
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-RW-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1529.8 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U4 - G1

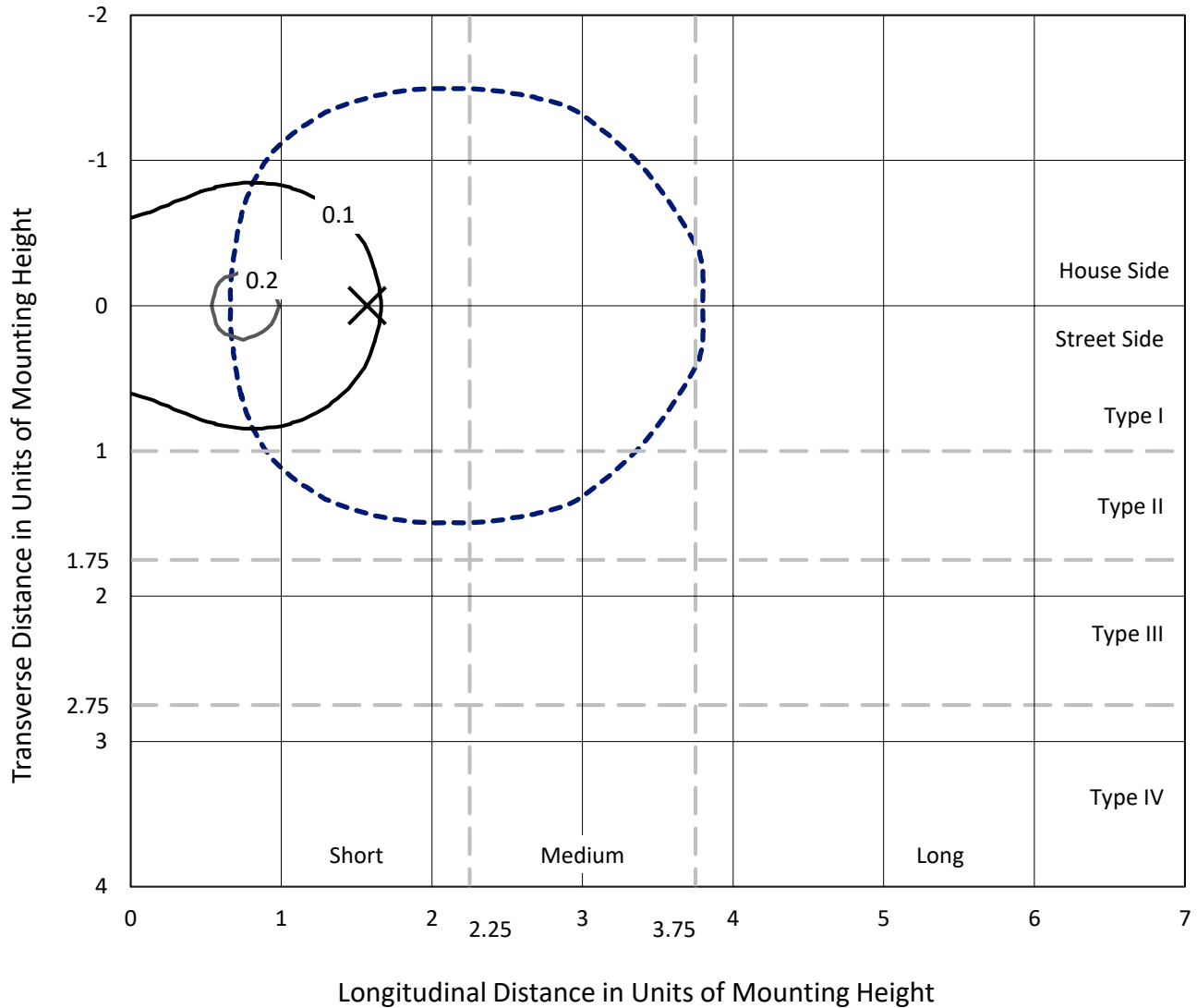
Input Watts (W): 15.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

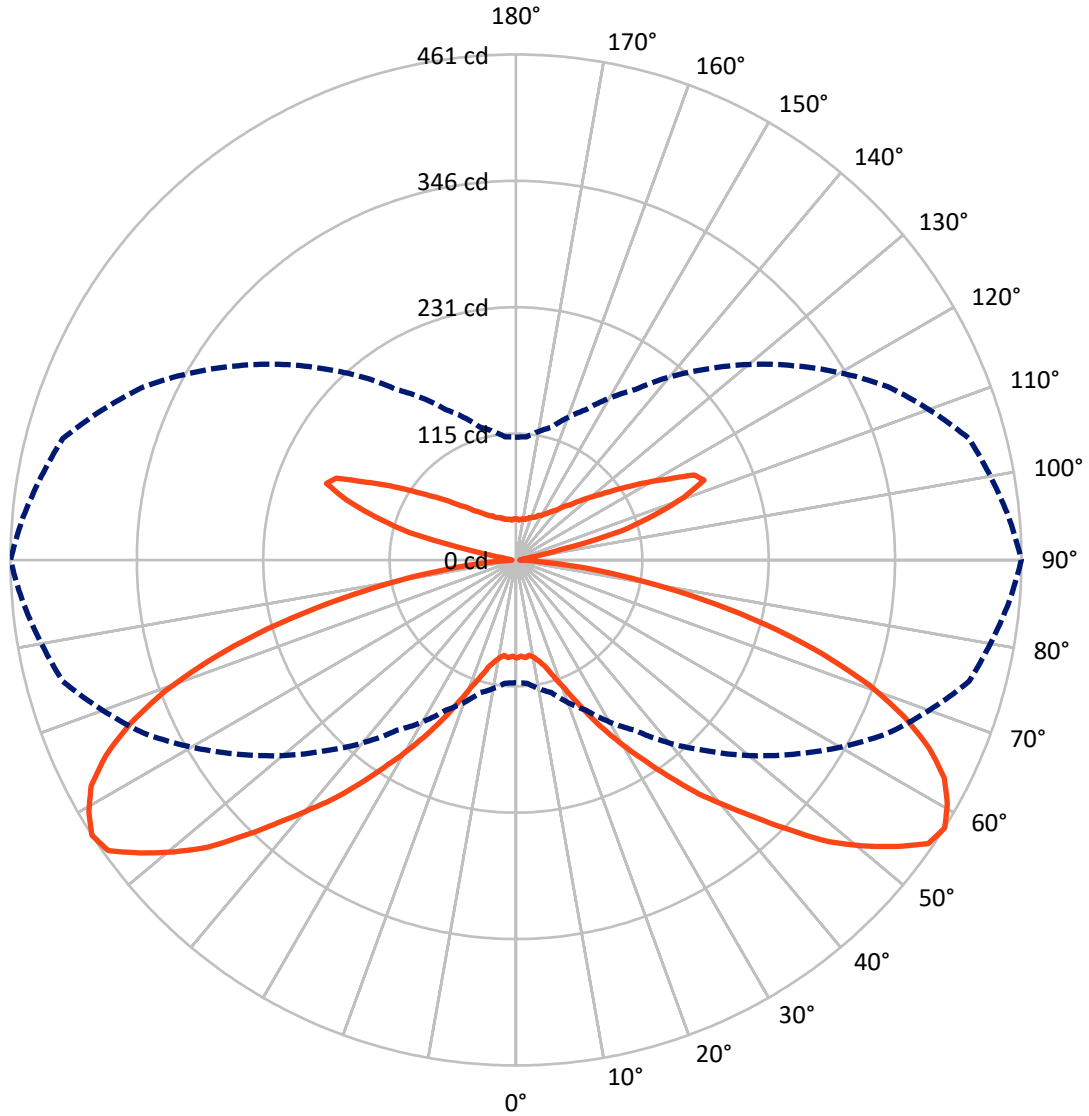
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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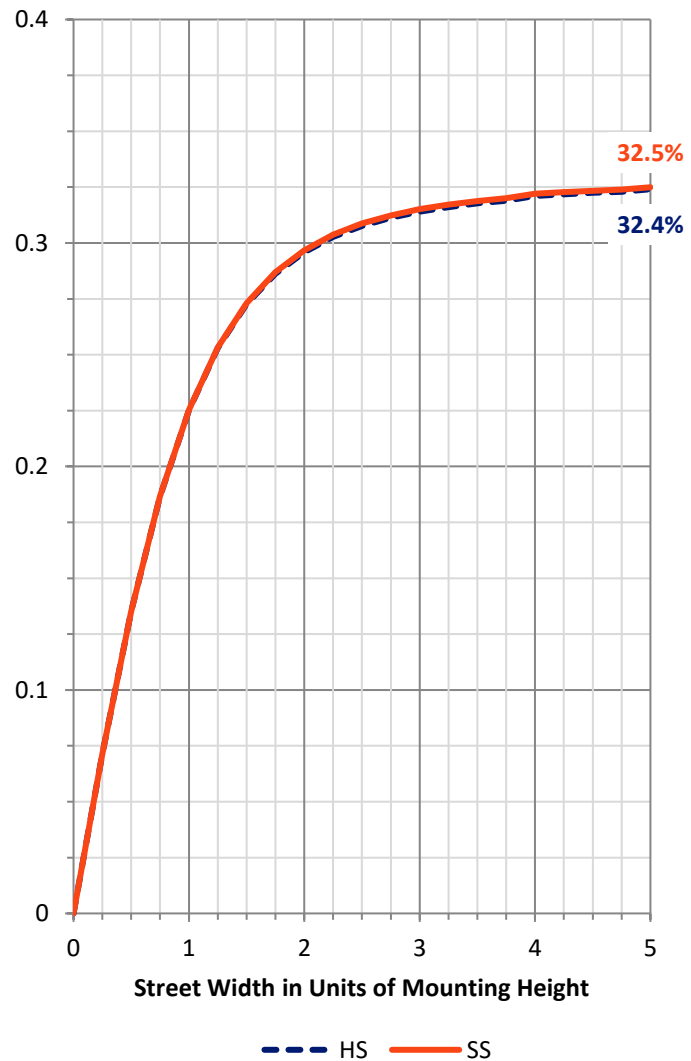
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	497.9	267.0	764.9
	% Fixture	32.5	17.5	50.0
Street Side	Lumens	497.9	267.0	764.9
	% Fixture	32.5	17.5	50.0
Total	Lumens	995.7	534.0	1529.8
	% Fixture	65.1	34.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.6
10°-20°	27.5	1.8
20°-30°	58.5	3.8
30°-40°	107.8	7.0
40°-50°	173.6	11.4
50°-60°	235.0	15.4
60°-70°	228.5	14.9
70°-80°	133.0	8.7
80°-90°	23.2	1.5
90°-100°	11.9	0.8
100°-110°	121.1	7.9
110°-120°	177.1	11.6
120°-130°	102.8	6.7
130°-140°	54.4	3.6
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°	995.7	65.1
0°-180°	1529.8	100.0

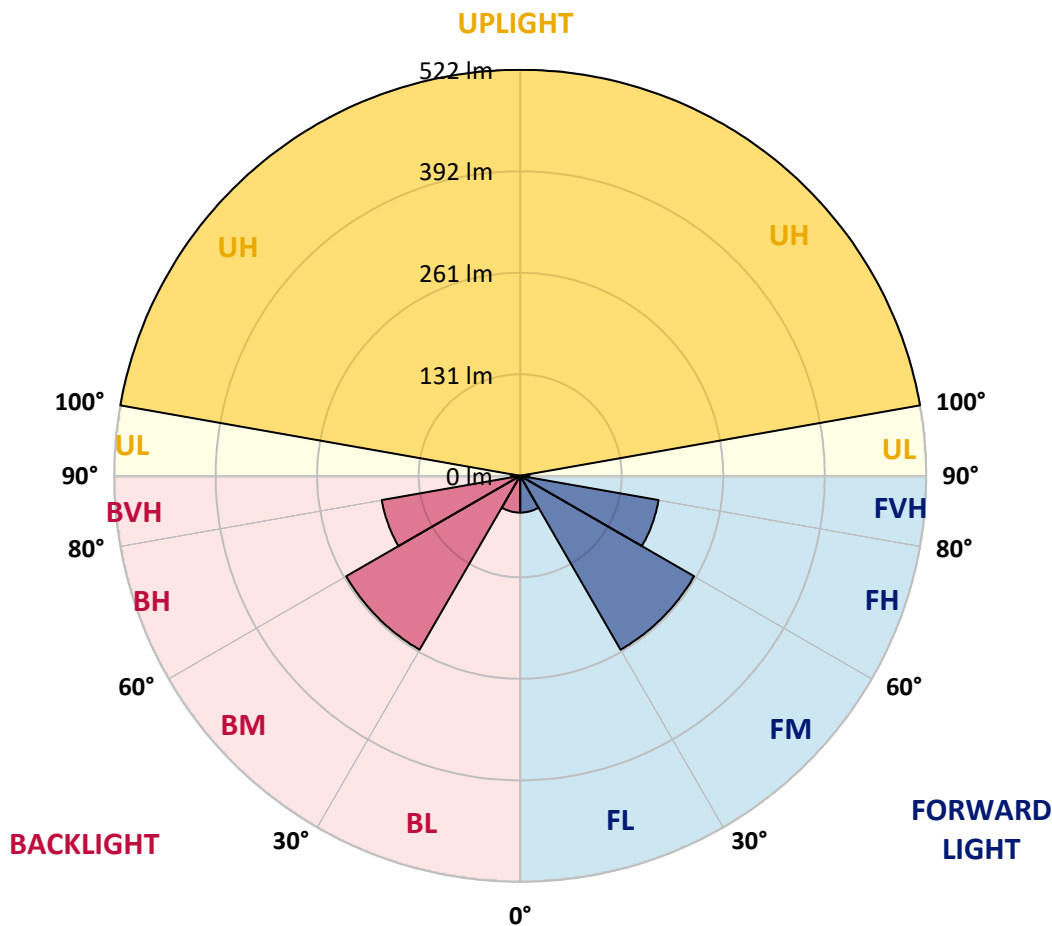


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.3	3.1			
FM (30°-60°)	258.3	16.9			
FH (60°-80°)	180.7	11.8			G0/660
FVH (80°-90°)	11.6	0.8			G1/100
BL (0°-30°)	47.3	3.1	B0/110		
BM (30°-60°)	258.3	16.9	B1/1000		
BH (60°-80°)	180.7	11.8	B1/500		G1/500
BVH (80°-90°)	11.6	0.8			G1/100
UL (90°-100°)	11.9	0.8		U2/50	
UH (100°-180°)	522.1	34.1		U4/1000	

BUG Rating: B1-U4-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
2.5°	89.5	89.5	89.5	89.5	88.6	88.6	88.6	87.7	87.7	87.7	87.7
5°	89.5	89.5	89.5	90.4	90.4	90.4	89.5	89.5	89.5	89.5	89.5
7.5°	89.5	90.4	90.4	89.5	89.5	88.6	88.6	88.6	87.7	87.7	87.7
10°	89.5	89.5	89.5	89.5	88.6	88.6	89.5	89.5	90.4	90.4	90.4
12.5°	88.6	88.6	89.5	89.5	89.5	90.4	92.2	93.1	94.0	94.9	94.9
15°	89.5	89.5	90.4	91.3	92.2	94.0	96.7	99.4	101.2	102.1	101.2
17.5°	89.5	90.4	91.3	93.1	95.8	98.5	103.0	106.5	110.1	111.0	111.9
20°	91.3	91.3	92.2	95.8	100.3	104.7	111.0	117.3	121.8	123.5	123.5
22.5°	92.2	93.1	94.0	98.5	105.6	112.8	121.8	128.9	135.2	138.8	139.7
25°	94.9	94.9	96.7	103.0	111.9	122.6	134.3	145.0	153.1	157.6	158.5
27.5°	96.7	97.6	100.3	108.3	120.0	133.4	149.5	162.0	171.9	177.3	178.2
30°	98.5	99.4	104.7	113.7	128.0	144.1	162.9	179.0	191.6	197.8	198.7
32.5°	101.2	102.1	108.3	118.2	135.2	154.9	176.4	196.1	214.0	219.3	220.2
35°	103.8	104.7	111.9	123.5	143.2	165.6	190.7	214.0	235.4	242.6	244.4
37.5°	106.5	107.4	114.6	128.9	151.3	177.3	206.8	234.6	257.8	267.7	270.4
40°	109.2	110.1	118.2	134.3	159.4	189.8	223.8	254.2	281.1	292.7	294.5
42.5°	111.0	111.9	120.9	138.8	167.4	201.4	241.7	275.7	304.4	319.6	321.4
45°	113.7	114.6	124.4	145.0	174.6	214.9	258.7	299.9	333.0	350.0	351.8
47.5°	115.5	116.4	127.1	148.6	182.6	227.4	276.6	321.4	360.8	378.7	384.1
50°	116.4	117.3	128.9	152.2	188.0	236.3	291.0	342.9	385.0	407.3	410.0
52.5°	116.4	118.2	129.8	154.9	191.6	244.4	302.6	360.8	408.2	433.3	434.2
55°	115.5	116.4	128.9	154.0	193.4	248.0	310.6	371.5	424.3	448.5	456.6
57.5°	111.9	112.8	125.3	151.3	189.8	246.2	308.9	374.2	427.9	451.2	461.1
60°	106.5	108.3	120.0	145.0	184.4	239.9	303.5	368.8	422.6	451.2	452.1
62.5°	100.3	101.2	112.8	137.0	176.4	230.1	293.6	358.1	410.0	439.6	438.7
65°	91.3	92.2	102.1	127.1	162.0	211.3	273.9	341.1	385.9	417.2	414.5
67.5°	81.5	82.4	91.3	113.7	145.0	190.7	247.1	312.4	351.8	384.1	382.3
70°	70.7	70.7	78.8	97.6	127.1	167.4	217.5	274.8	314.2	341.1	342.0
72.5°	58.2	58.2	65.4	81.5	106.5	140.6	183.5	234.6	266.8	290.1	291.8
75°	45.7	44.8	51.0	64.5	84.2	111.9	145.0	188.9	214.0	236.3	235.4
77.5°	32.2	32.2	35.8	46.6	60.9	83.3	107.4	142.3	159.4	178.2	174.6
80°	20.6	20.6	22.4	30.4	40.3	55.5	70.7	96.7	108.3	122.6	118.2
82.5°	10.7	9.8	11.6	16.1	21.5	30.4	39.4	56.4	61.8	72.5	68.9
85°	3.6	3.6	3.6	5.4	8.1	11.6	15.2	24.2	25.1	32.2	29.5
87.5°	0.9	0.0	0.0	0.9	0.9	0.9	0.9	2.7	2.7	5.4	3.6
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)