

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: P832980

Luminaire Tested: **TTN-D0-830-U-WQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832980
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-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1830.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

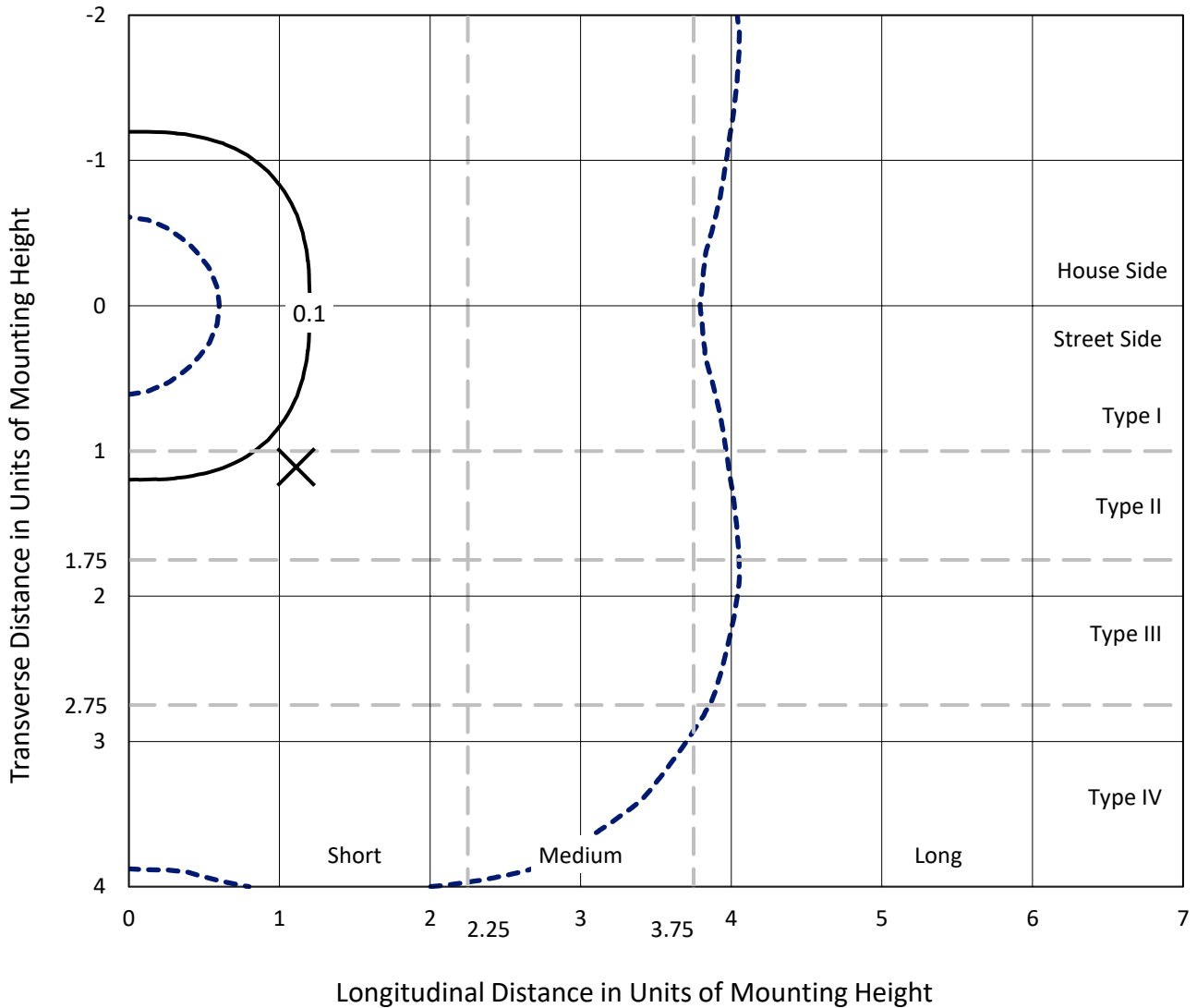
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

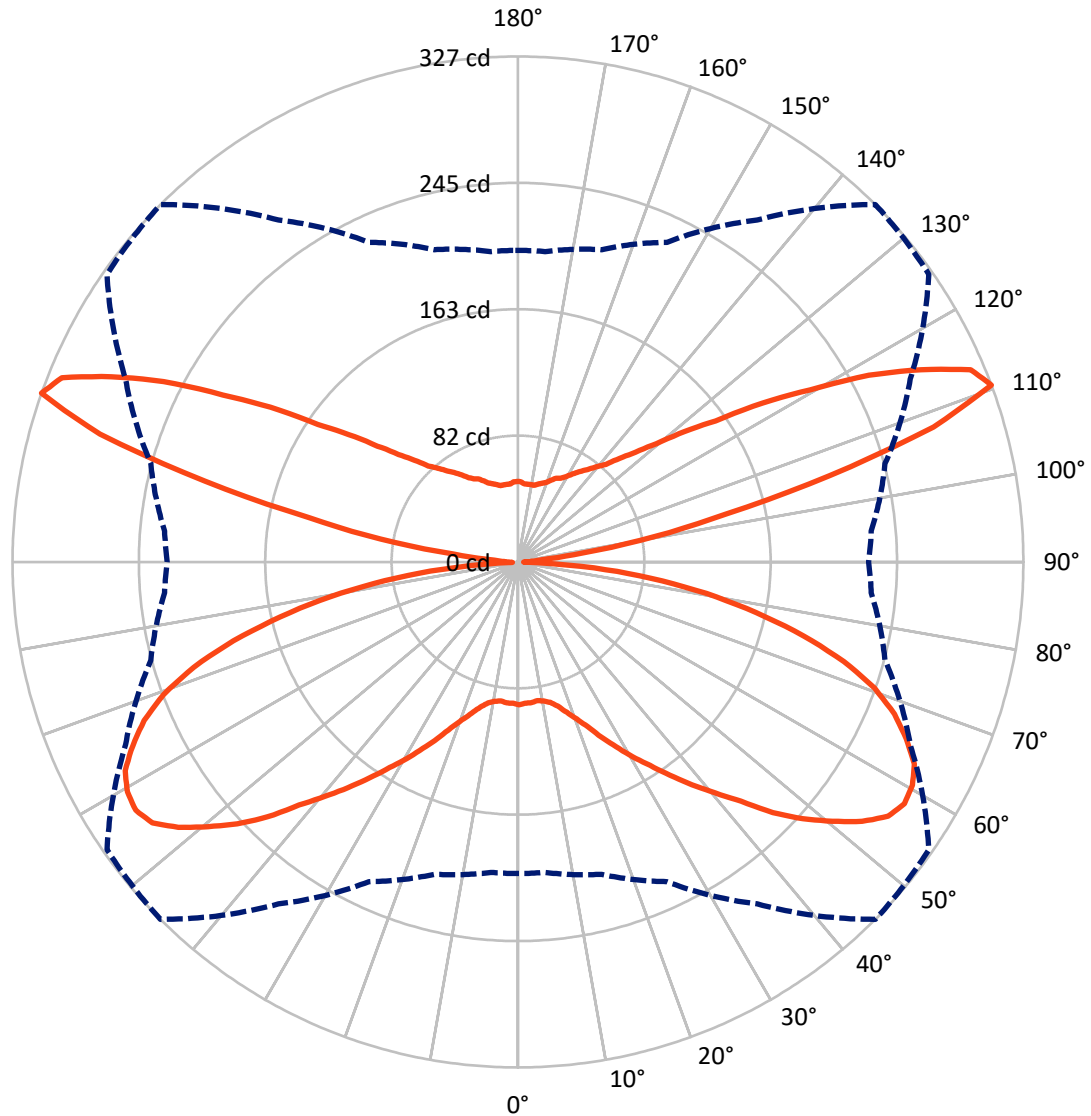
✕ Max cd
 - - - 1/2 Max cd



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 110-Deg Vertical

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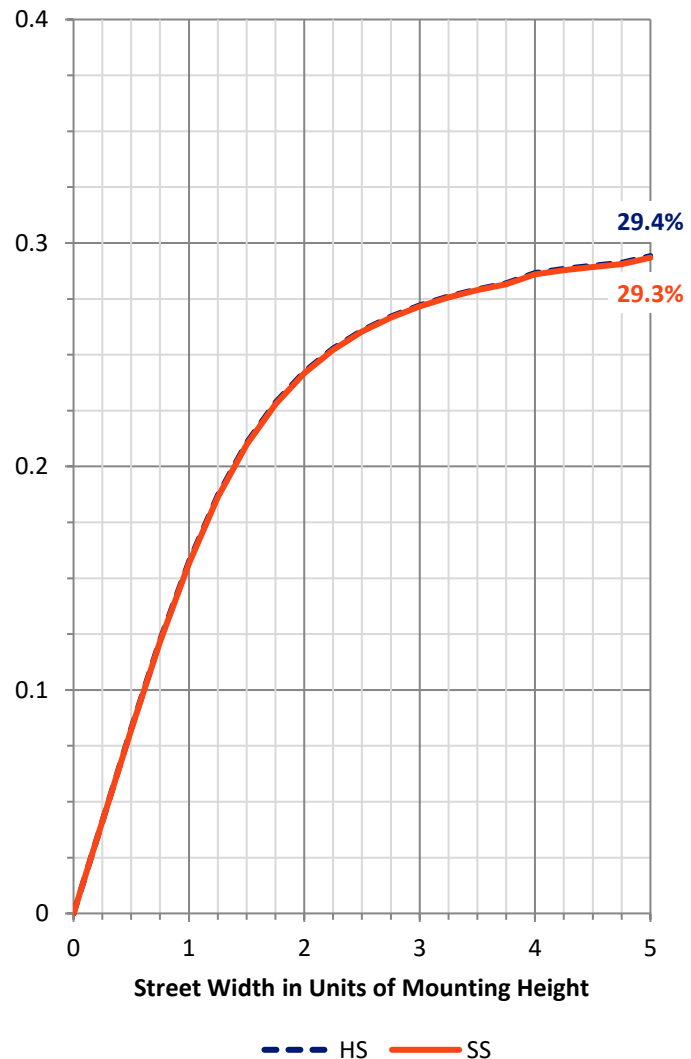
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	545.0	370.3	915.3
	% Fixture	29.8	20.2	50.0
Street Side	Lumens	545.0	370.3	915.3
	% Fixture	29.8	20.2	50.0
Total	Lumens	1090.0	740.7	1830.7
	% Fixture	59.5	40.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.5
10°-20°	27.7	1.5
20°-30°	58.1	3.2
30°-40°	105.4	5.8
40°-50°	171.8	9.4
50°-60°	240.5	13.1
60°-70°	251.0	13.7
70°-80°	179.4	9.8
80°-90°	47.4	2.6
90°-100°	16.5	0.9
100°-110°	168.0	9.2
110°-120°	245.6	13.4
120°-130°	142.5	7.8
130°-140°	75.5	4.1
140°-150°	44.9	2.4
150°-160°	27.6	1.5
160°-170°	15.1	0.8
170°-180°	4.9	0.3
0°-90°	1090.0	59.5
0°-180°	1830.7	100.0

Coefficient of Utilization



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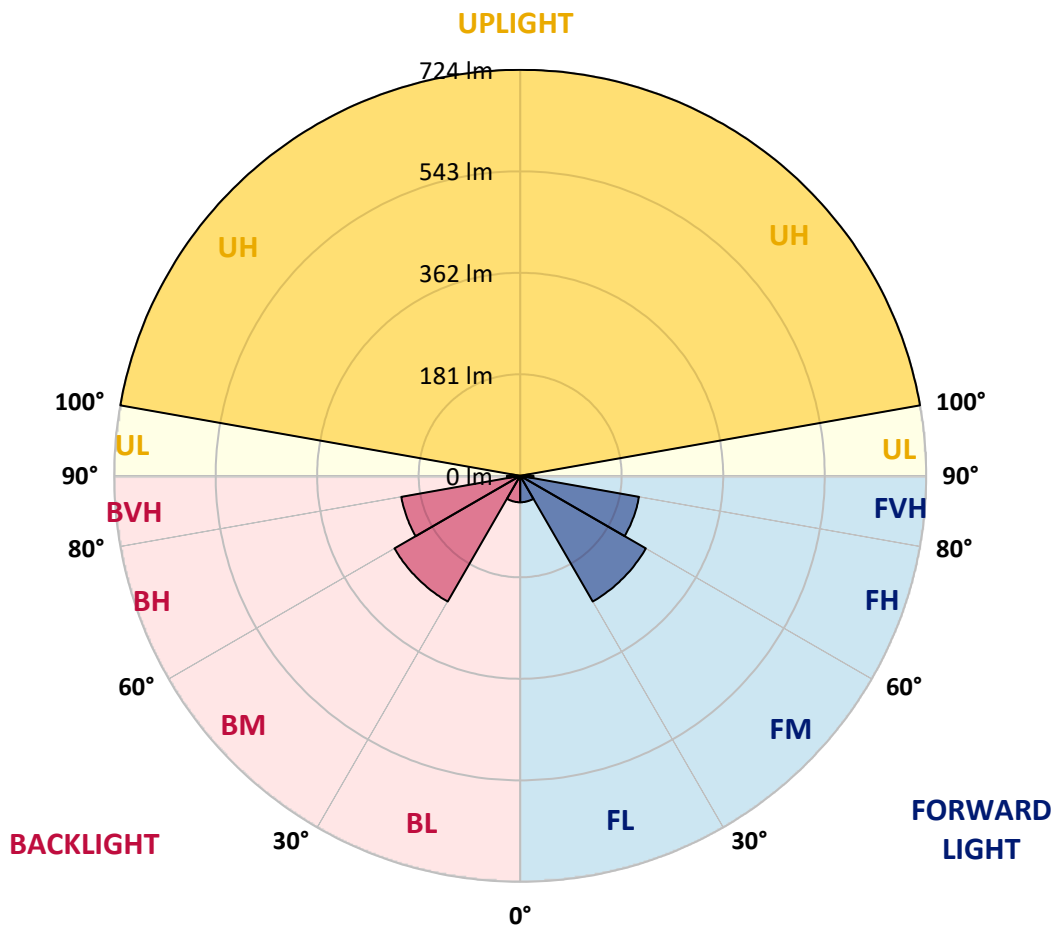
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	47.2	2.6			
FM (30°-60°)	258.8	14.1			
FH (60°-80°)	215.2	11.8			G0/660
FVH (80°-90°)	23.7	1.3			G1/100
BL (0°-30°)	47.2	2.6	B0/110		
BM (30°-60°)	258.8	14.1	B1/1000		
BH (60°-80°)	215.2	11.8	B1/500		G0/660
BVH (80°-90°)	23.7	1.3			G1/100
UL (90°-100°)	16.5	0.9		U2/50	
UH (100°-180°)	724.2	39.6		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°	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
2.5°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
5°	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
7.5°	89.6	89.6	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
10°	89.6	89.6	90.5	90.5	91.4	91.4	91.4	90.5	90.5	89.6	89.6
12.5°	91.4	91.4	91.4	92.3	93.2	93.2	93.2	92.3	92.3	91.4	91.4
15°	94.1	95.0	95.0	95.9	96.8	96.8	96.8	95.9	95.9	95.0	95.0
17.5°	99.5	99.5	99.5	100.4	101.3	102.2	102.2	100.4	100.4	99.5	100.4
20°	104.9	105.8	105.8	106.6	107.5	108.4	107.5	106.6	105.8	105.8	105.8
22.5°	112.9	112.9	113.8	113.8	115.6	115.6	115.6	113.8	113.8	113.8	113.8
25°	121.9	121.9	122.8	123.7	125.5	125.5	124.6	122.8	122.8	122.8	123.7
27.5°	132.6	132.6	133.5	133.5	135.3	135.3	134.4	133.5	133.5	133.5	134.4
30°	142.5	142.5	144.3	145.2	146.1	146.1	146.1	144.3	144.3	143.4	143.4
32.5°	151.5	152.4	153.2	155.9	157.7	156.8	157.7	155.9	154.1	153.2	153.2
35°	161.3	162.2	164.0	166.7	169.4	169.4	169.4	166.7	164.9	163.1	164.0
37.5°	173.0	173.0	175.7	178.3	181.9	182.8	181.9	179.2	176.5	174.8	174.8
40°	185.5	185.5	188.2	190.9	195.4	196.3	195.4	191.8	188.2	187.3	187.3
42.5°	198.1	198.1	201.6	204.3	209.7	211.5	209.7	205.2	201.6	199.0	199.9
45°	211.5	212.4	216.9	222.3	228.5	231.2	228.5	223.2	217.8	212.4	212.4
47.5°	226.7	226.7	232.1	238.4	245.6	248.2	244.7	239.3	232.1	227.6	227.6
50°	236.6	237.5	244.7	252.7	261.7	263.5	260.8	252.7	244.7	238.4	237.5
52.5°	246.5	247.3	255.4	267.1	276.0	278.7	275.1	267.1	255.4	247.3	247.3
55°	252.7	254.5	263.5	276.0	285.9	290.4	285.0	276.0	262.6	253.6	252.7
57.5°	253.6	255.4	264.4	279.6	289.5	294.8	290.4	278.7	264.4	254.5	253.6
60°	251.8	252.7	261.7	277.8	289.5	293.1	289.5	276.9	260.8	252.7	250.9
62.5°	247.3	249.1	258.1	271.5	285.0	287.7	284.1	270.6	257.2	247.3	245.6
65°	233.0	234.8	248.2	261.7	273.3	276.0	273.3	261.7	247.3	233.0	231.2
67.5°	216.9	217.8	231.2	247.3	258.1	262.6	258.1	248.2	230.3	216.9	215.1
70°	199.9	200.7	211.5	228.5	239.3	244.7	240.2	229.4	210.6	199.0	198.1
72.5°	180.1	180.1	190.9	204.3	215.1	220.5	216.9	203.4	189.1	177.4	175.7
75°	153.2	154.1	165.8	175.7	187.3	190.9	187.3	176.5	163.1	151.5	149.7
77.5°	125.5	126.4	136.2	144.3	155.0	157.7	155.0	146.1	133.5	123.7	122.8
80°	95.0	95.9	104.0	111.1	120.1	123.7	121.0	112.0	102.2	93.2	90.5
82.5°	61.8	62.7	70.8	76.2	84.2	86.9	85.1	77.1	69.0	60.0	59.1
85°	27.8	28.7	35.8	40.3	46.6	49.3	47.5	40.3	34.1	26.0	24.2
87.5°	2.7	2.7	2.7	2.7	2.7	3.6	3.6	2.7	2.7	2.7	2.7
90°	6.3	6.3	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.3	6.3
92.5°	6.3	6.3	6.3	8.9	10.1	8.9	10.1	7.6	7.6	6.3	6.3
95°	7.6	7.6	8.9	11.4	13.9	15.2	15.2	8.9	8.9	7.6	7.6
97.5°	10.1	11.4	11.4	13.9	22.8	41.8	25.3	12.7	12.7	11.4	10.1
100°	16.5	17.7	17.7	31.7	67.2	90.0	64.6	32.9	24.1	17.7	17.7
102.5°	53.2	55.8	68.4	102.6	152.1	138.1	116.6	110.2	76.0	60.8	58.3
105°	135.6	134.3	144.5	171.1	212.9	209.1	192.6	174.9	150.8	139.4	139.4
107.5°	178.7	178.7	187.5	210.4	242.0	282.6	286.4	226.8	198.9	186.3	185.0
110°	201.5	201.5	209.1	228.1	269.9	326.9	324.4	280.0	245.8	229.4	226.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	206.5	207.8	218.0	247.1	292.7	318.1	306.7	288.9	273.7	261.0	258.5
115°	214.2	214.2	225.6	253.4	278.8	288.9	276.2	262.3	252.2	247.1	249.6
117.5°	211.6	215.4	218.0	233.2	249.6	257.2	250.9	231.9	224.3	221.8	218.0
120°	196.4	196.4	198.9	206.5	215.4	219.2	216.7	204.0	197.7	196.4	193.9
122.5°	174.9	176.1	174.9	178.7	185.0	188.8	186.3	176.1	173.6	173.6	171.1
125°	153.3	153.3	152.1	154.6	158.4	157.1	158.4	153.3	152.1	152.1	150.8
127.5°	138.1	136.9	134.3	135.6	136.9	136.9	138.1	133.1	134.3	135.6	134.3
130°	122.9	122.9	120.4	120.4	120.4	117.8	120.4	117.8	119.1	120.4	121.6
132.5°	109.0	109.0	105.2	103.9	103.9	103.9	105.2	103.9	106.4	109.0	109.0
135°	97.6	97.6	93.8	95.0	95.0	93.8	95.0	93.8	96.3	97.6	97.6
137.5°	88.7	88.7	86.2	86.2	86.2	84.9	86.2	86.2	87.4	90.0	91.2
140°	81.1	81.1	79.8	79.8	78.6	79.8	79.8	79.8	81.1	82.4	82.4
142.5°	77.3	76.0	74.8	73.5	74.8	74.8	74.8	73.5	74.8	77.3	77.3
145°	71.0	71.0	69.7	69.7	69.7	71.0	69.7	69.7	71.0	71.0	72.2
147.5°	67.2	67.2	65.9	67.2	67.2	67.2	67.2	65.9	67.2	67.2	68.4
150°	65.9	64.6	63.4	64.6	64.6	63.4	63.4	63.4	63.4	64.6	64.6
152.5°	62.1	62.1	60.8	62.1	60.8	60.8	60.8	60.8	60.8	62.1	63.4
155°	59.6	59.6	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
157.5°	57.0	58.3	57.0	57.0	57.0	57.0	57.0	57.0	57.0	58.3	58.3
160°	55.8	55.8	55.8	55.8	54.5	54.5	54.5	55.8	55.8	55.8	57.0
162.5°	54.5	54.5	54.5	54.5	53.2	53.2	53.2	53.2	54.5	54.5	55.8
165°	54.5	53.2	53.2	53.2	52.0	52.0	52.0	52.0	53.2	54.5	53.2
167.5°	52.0	52.0	52.0	52.0	52.0	50.7	50.7	52.0	52.0	52.0	53.2
170°	52.0	52.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	52.0
172.5°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	50.7	50.7	52.0	52.0
175°	52.0	52.0	52.0	52.0	50.7	50.7	50.7	52.0	52.0	52.0	50.7
177.5°	52.0	52.0	52.0	52.0	50.7	52.0	52.0	52.0	52.0	52.0	52.0
180°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

(END OF REPORT)