

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: P832824

Luminaire Tested: **TTN-D0-735-U-WQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832824
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-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1847.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

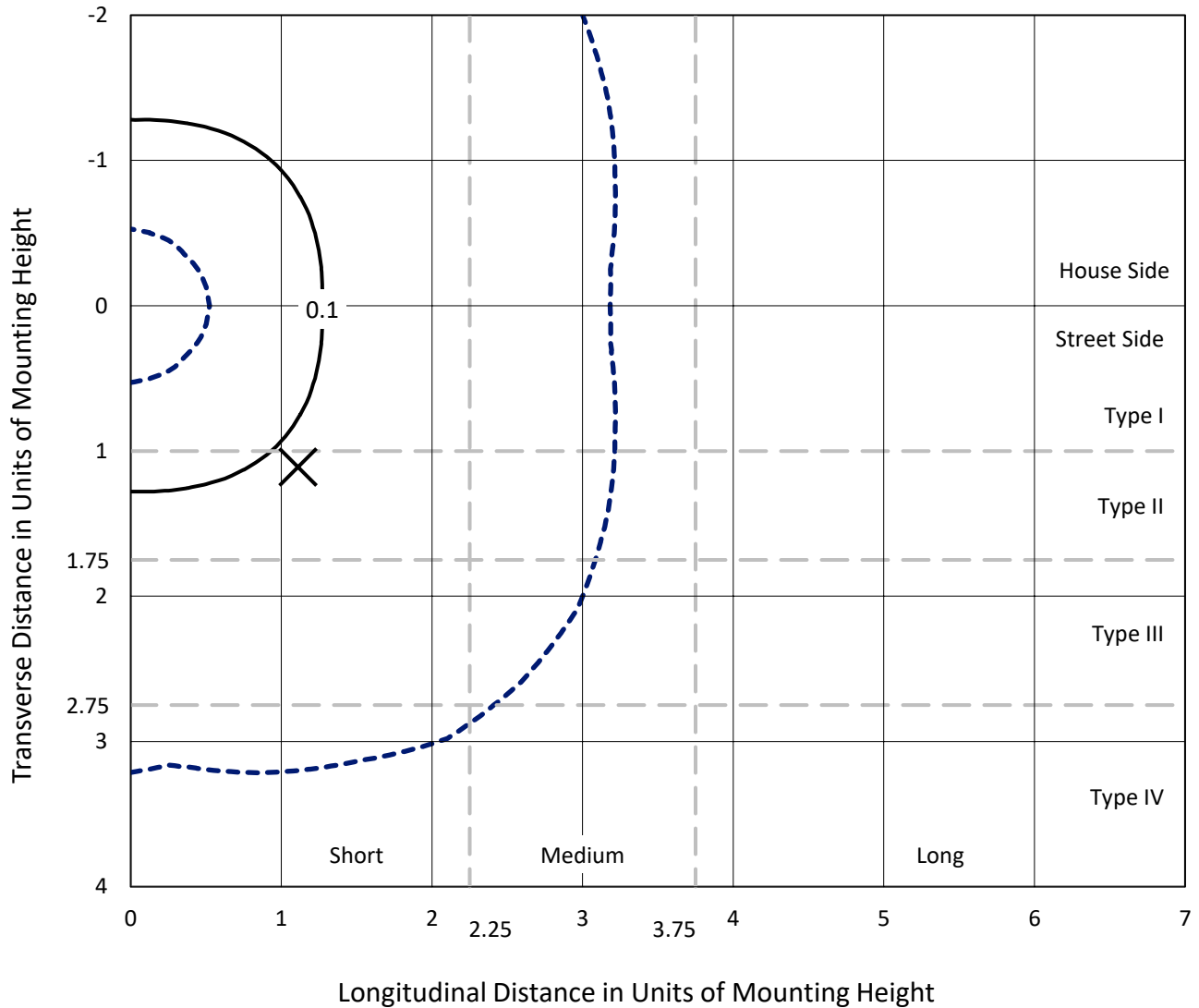
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

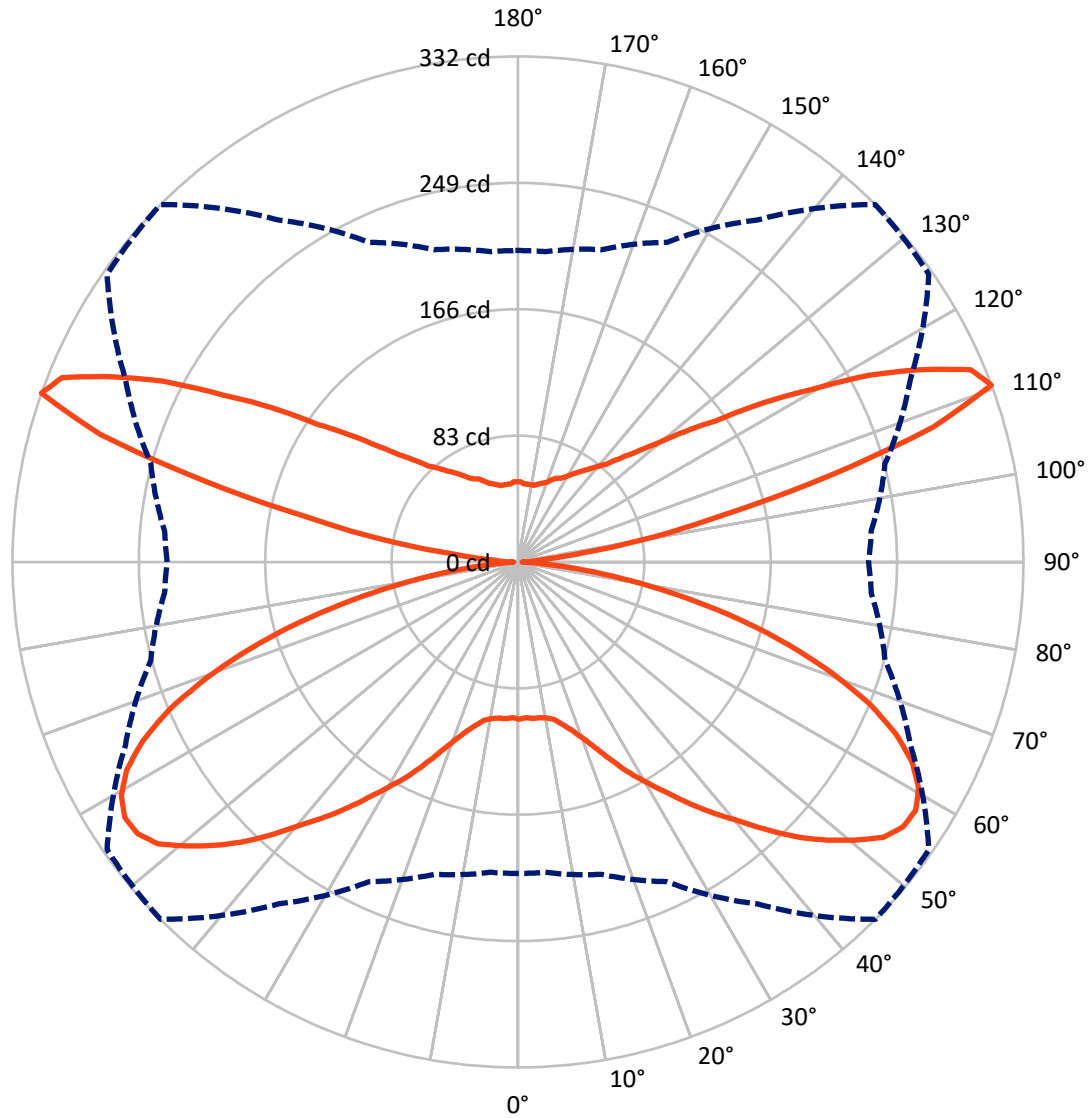
✕ Max cd
 - - - 1/2 Max cd



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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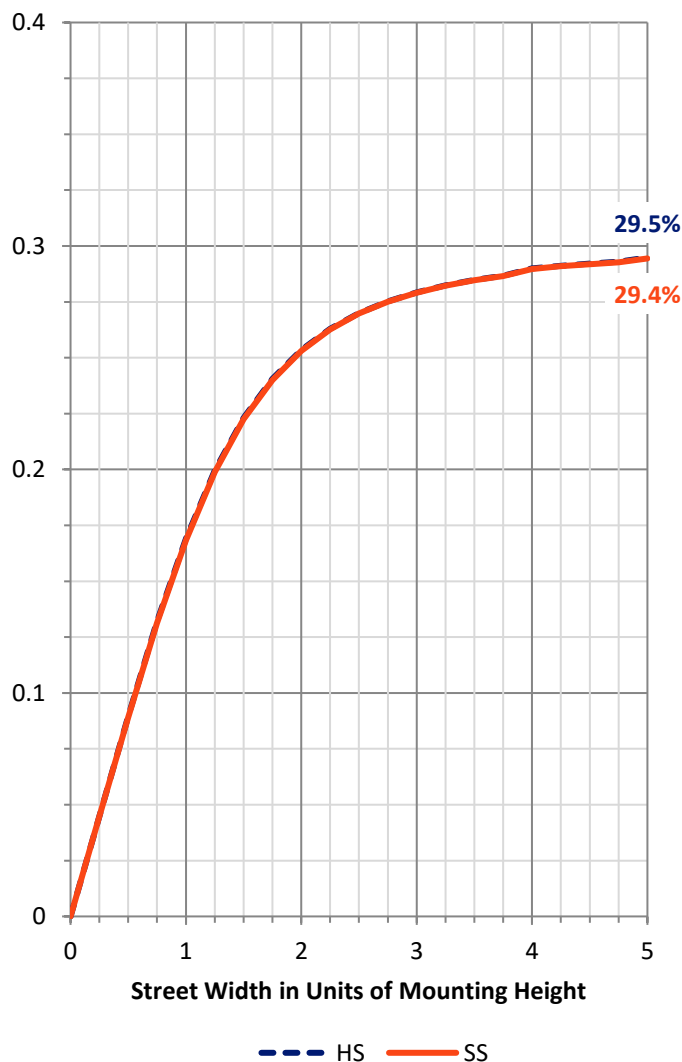
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.5	376.3	923.8
	% Fixture	29.6	20.4	50.0
Street Side	Lumens	547.5	376.3	923.8
	% Fixture	29.6	20.4	50.0
Total	Lumens	1095.0	752.7	1847.7
	% Fixture	59.3	40.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.5
10°-20°	31.9	1.7
20°-30°	67.0	3.6
30°-40°	120.9	6.5
40°-50°	192.1	10.4
50°-60°	256.3	13.9
60°-70°	247.7	13.4
70°-80°	143.5	7.8
80°-90°	25.7	1.4
90°-100°	16.8	0.9
100°-110°	170.7	9.2
110°-120°	249.6	13.5
120°-130°	144.9	7.8
130°-140°	76.7	4.2
140°-150°	45.6	2.5
150°-160°	28.1	1.5
160°-170°	15.3	0.8
170°-180°	5.0	0.3
0°-90°	1095.0	59.3
0°-180°	1847.7	100.0

Coefficient of Utilization

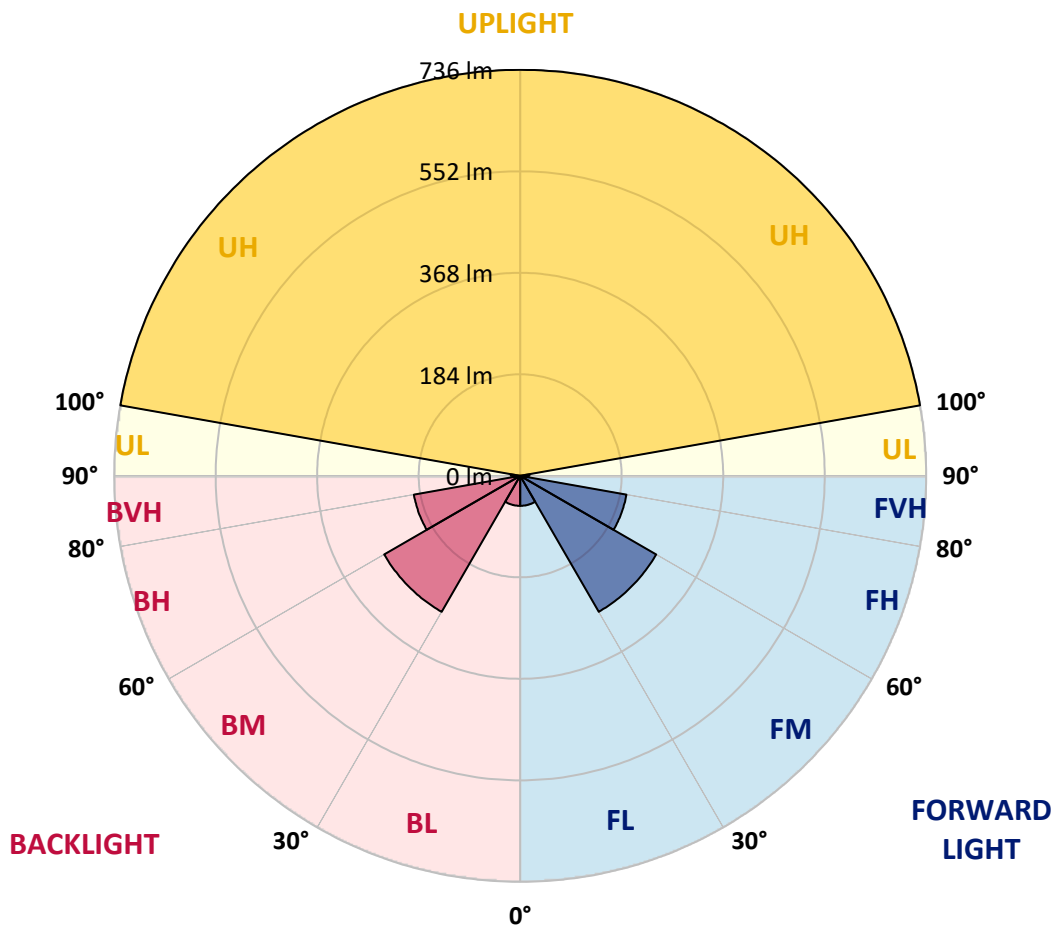


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	54.4	2.9			
FM (30°-60°)	284.7	15.4			
FH (60°-80°)	195.6	10.6			G0/660
FVH (80°-90°)	12.9	0.7			G1/100
BL (0°-30°)	54.4	2.9	B0/110		
BM (30°-60°)	284.7	15.4	B1/1000		
BH (60°-80°)	195.6	10.6	B1/500		G0/660
BVH (80°-90°)	12.9	0.7			G1/100
UL (90°-100°)	16.8	0.9		U2/50	
UH (100°-180°)	735.8	39.8		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°	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3
2.5°	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4
5°	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3
7.5°	102.4	102.4	103.3	103.3	103.3	103.3	103.3	103.3	103.3	102.4	102.4
10°	103.3	103.3	103.3	104.3	104.3	104.3	104.3	104.3	103.3	103.3	103.3
12.5°	105.2	105.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	105.2	105.2
15°	110.0	110.0	110.0	110.9	110.9	110.9	110.9	110.9	110.0	110.0	110.0
17.5°	114.7	114.7	115.7	115.7	116.6	116.6	116.6	115.7	115.7	115.7	115.7
20°	121.4	121.4	122.3	122.3	123.3	124.2	124.2	123.3	122.3	122.3	122.3
22.5°	129.9	130.8	130.8	130.8	131.8	133.7	132.7	131.8	130.8	130.8	130.8
25°	140.3	141.3	142.2	142.2	143.2	145.1	145.1	142.2	142.2	142.2	142.2
27.5°	152.7	153.6	154.5	154.5	155.5	157.4	156.4	154.5	154.5	153.6	153.6
30°	164.0	165.0	165.9	166.9	167.8	168.8	168.8	166.9	165.9	165.0	164.0
32.5°	175.4	175.4	177.3	179.2	181.1	181.1	182.0	179.2	177.3	175.4	174.5
35°	186.8	187.7	188.7	191.5	194.4	195.3	194.4	191.5	188.7	186.8	186.8
37.5°	199.1	200.1	201.0	204.8	207.6	209.5	207.6	204.8	201.0	199.1	198.2
40°	212.4	213.3	214.3	219.0	221.9	223.8	220.9	218.1	214.3	212.4	211.4
42.5°	224.7	226.6	228.5	234.2	238.9	240.8	238.0	233.2	229.4	224.7	223.8
45°	239.9	241.8	244.6	250.3	255.0	257.9	254.1	249.4	243.7	239.9	238.9
47.5°	252.2	254.1	256.9	264.5	271.2	273.1	269.3	263.6	256.0	251.3	250.3
50°	261.7	263.6	269.3	277.8	285.4	287.3	283.5	275.9	267.4	260.7	259.8
52.5°	269.3	271.2	277.8	289.2	297.7	300.6	295.8	287.3	275.9	268.3	267.4
55°	273.1	274.0	282.5	294.9	303.4	307.2	302.5	293.0	280.6	272.1	271.2
57.5°	270.2	271.2	280.6	293.9	303.4	308.1	303.4	292.0	278.8	270.2	269.3
60°	264.5	264.5	273.1	288.2	299.6	302.5	297.7	286.3	272.1	263.6	262.6
62.5°	254.1	253.2	263.6	276.9	288.2	291.1	287.3	275.9	261.7	253.2	252.2
65°	234.2	232.3	247.5	259.8	270.2	273.1	270.2	259.8	246.5	233.2	231.3
67.5°	210.5	207.6	221.9	236.1	245.6	249.4	245.6	237.0	221.9	208.6	207.6
70°	185.8	183.0	194.4	206.7	217.1	219.0	215.2	206.7	192.5	183.9	183.9
72.5°	156.4	153.6	164.0	173.5	183.9	185.8	182.0	174.5	164.0	155.5	154.5
75°	124.2	121.4	130.8	138.4	148.9	149.8	147.9	139.4	130.8	122.3	122.3
77.5°	92.0	89.1	96.7	103.3	111.9	111.9	110.9	104.3	96.7	91.0	91.0
80°	60.7	58.8	65.4	68.3	75.9	75.9	74.9	70.2	64.5	60.7	59.7
82.5°	34.1	32.2	37.9	38.9	44.6	44.6	43.6	39.8	36.0	33.2	33.2
85°	13.3	11.4	15.2	16.1	19.0	19.0	18.0	17.1	14.2	12.3	12.3
87.5°	0.9	0.9	1.9	1.9	2.8	2.8	2.8	1.9	1.9	0.9	0.9
90°	6.4	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	6.4
92.5°	6.4	6.4	6.4	9.0	10.3	9.0	10.3	7.7	7.7	6.4	6.4
95°	7.7	7.7	9.0	11.6	14.2	15.5	15.5	9.0	9.0	7.7	7.7
97.5°	10.3	11.6	11.6	14.2	23.2	42.5	25.8	12.9	12.9	11.6	10.3
100°	16.7	18.0	18.0	32.2	68.2	91.4	65.7	33.5	24.5	18.0	18.0
102.5°	54.1	56.7	69.5	104.3	154.5	140.4	118.5	112.0	77.3	61.8	59.2
105°	137.8	136.5	146.8	173.8	216.3	212.5	195.7	177.7	153.2	141.6	141.6
107.5°	181.6	181.6	190.6	213.8	245.9	287.1	291.0	230.5	202.2	189.3	188.0
110°	204.7	204.7	212.5	231.8	274.3	332.2	329.6	284.6	249.8	233.1	230.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.9	211.2	221.5	251.1	297.5	323.2	311.6	293.6	278.1	265.3	262.7
115°	217.6	217.6	229.2	257.5	283.3	293.6	280.7	266.5	256.2	251.1	253.7
117.5°	215.0	218.9	221.5	236.9	253.7	261.4	255.0	235.6	227.9	225.3	221.5
120°	199.6	199.6	202.2	209.9	218.9	222.8	220.2	207.3	200.9	199.6	197.0
122.5°	177.7	179.0	177.7	181.6	188.0	191.9	189.3	179.0	176.4	176.4	173.8
125°	155.8	155.8	154.5	157.1	161.0	159.7	161.0	155.8	154.5	154.5	153.2
127.5°	140.4	139.1	136.5	137.8	139.1	139.1	140.4	135.2	136.5	137.8	136.5
130°	124.9	124.9	122.3	122.3	122.3	119.8	122.3	119.8	121.0	122.3	123.6
132.5°	110.7	110.7	106.9	105.6	105.6	105.6	106.9	105.6	108.2	110.7	110.7
135°	99.2	99.2	95.3	96.6	96.6	95.3	96.6	95.3	97.9	99.2	99.2
137.5°	90.1	90.1	87.6	87.6	87.6	86.3	87.6	87.6	88.8	91.4	92.7
140°	82.4	82.4	81.1	81.1	79.8	81.1	81.1	81.1	82.4	83.7	83.7
142.5°	78.5	77.3	76.0	74.7	76.0	76.0	76.0	74.7	76.0	78.5	78.5
145°	72.1	72.1	70.8	70.8	70.8	72.1	70.8	70.8	72.1	72.1	73.4
147.5°	68.2	68.2	67.0	68.2	68.2	68.2	68.2	67.0	68.2	68.2	69.5
150°	67.0	65.7	64.4	65.7	65.7	64.4	64.4	64.4	64.4	65.7	65.7
152.5°	63.1	63.1	61.8	63.1	61.8	61.8	61.8	61.8	61.8	63.1	64.4
155°	60.5	60.5	59.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
157.5°	57.9	59.2	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.2	59.2
160°	56.7	56.7	56.7	56.7	55.4	55.4	55.4	56.7	56.7	56.7	57.9
162.5°	55.4	55.4	55.4	55.4	54.1	54.1	54.1	54.1	55.4	55.4	56.7
165°	55.4	54.1	54.1	54.1	52.8	52.8	52.8	52.8	54.1	55.4	54.1
167.5°	52.8	52.8	52.8	52.8	52.8	51.5	51.5	52.8	52.8	52.8	54.1
170°	52.8	52.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.8
172.5°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	51.5	51.5	52.8	52.8
175°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	52.8	52.8	52.8	51.5
177.5°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8	52.8	52.8	52.8
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

(END OF REPORT)