

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: P833217

Luminaire Tested: **TTN-D1-740-U-WQ-SG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833217
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-D1-740-U-WQ-SG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3941.6 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

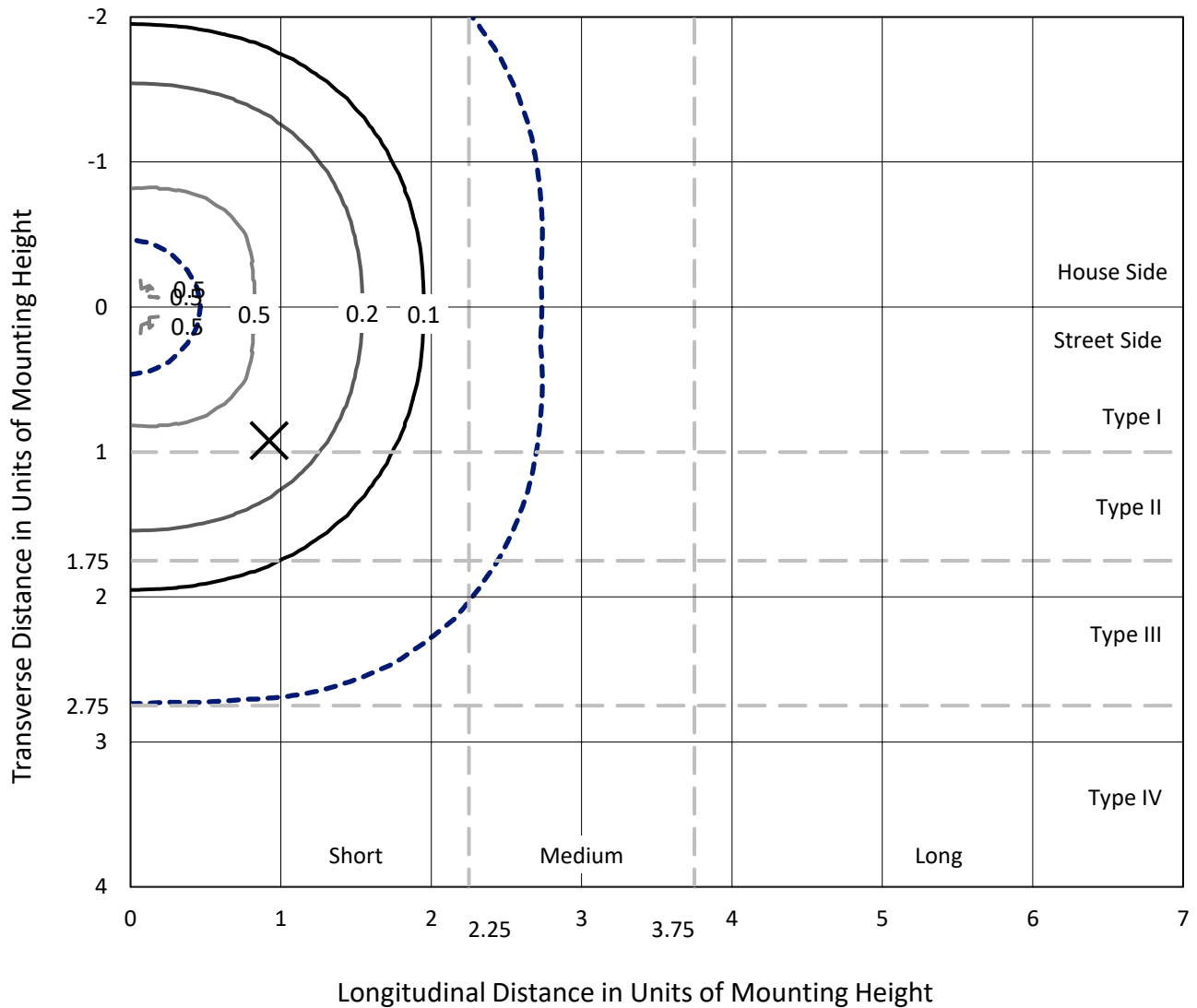
Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

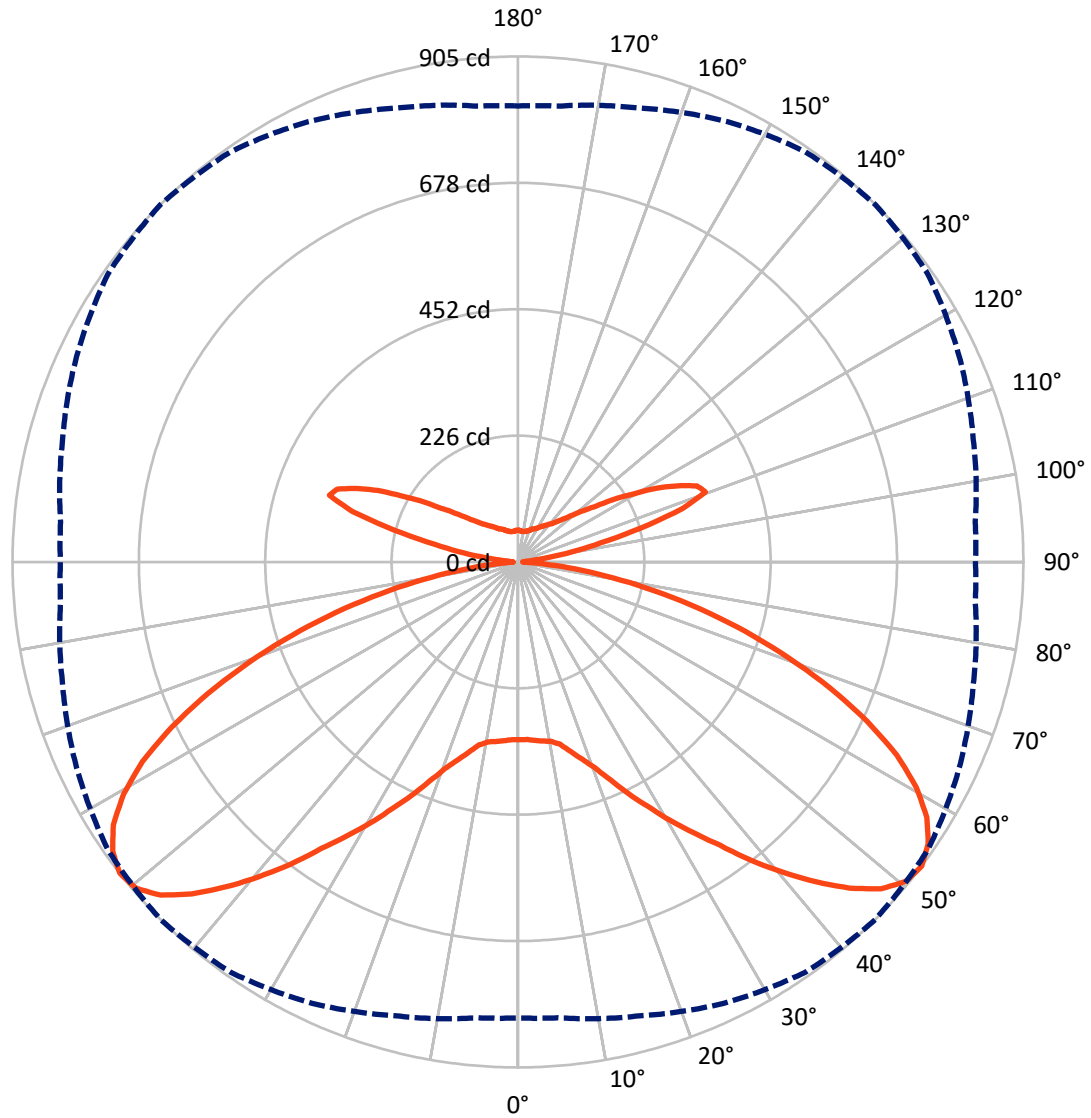
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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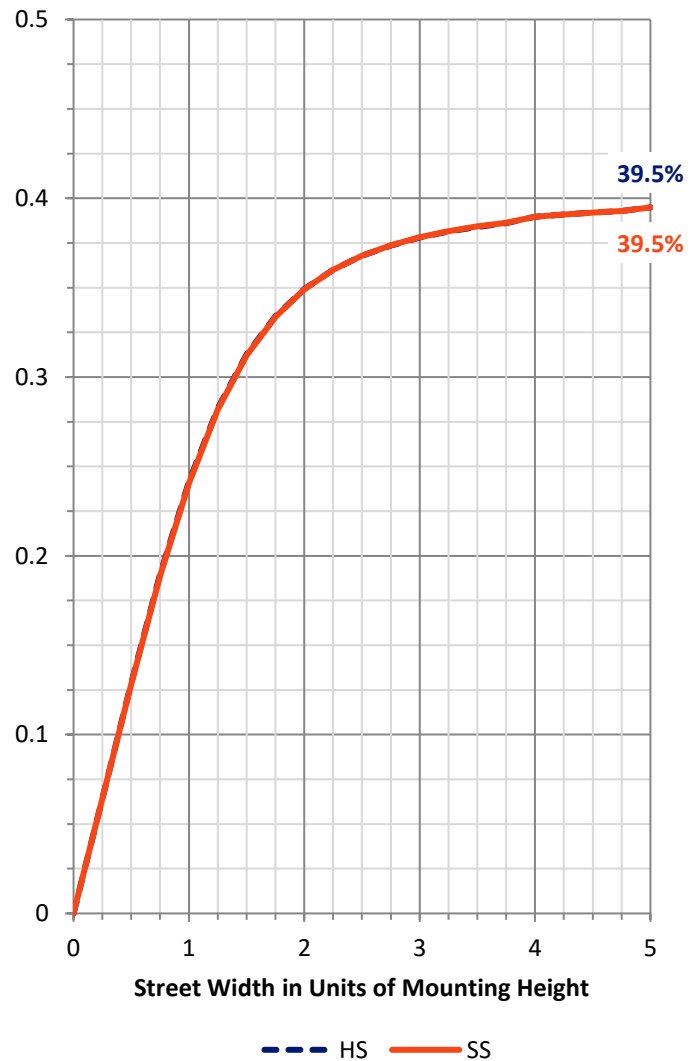
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1565.0	405.8	1970.8
	% Fixture	39.7	10.3	50.0
Street Side	Lumens	1565.0	405.8	1970.8
	% Fixture	39.7	10.3	50.0
Total	Lumens	3130.1	811.5	3941.6
	% Fixture	79.4	20.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	0.8
10°-20°	101.0	2.6
20°-30°	213.1	5.4
30°-40°	389.3	9.9
40°-50°	619.7	15.7
50°-60°	749.3	19.0
60°-70°	630.1	16.0
70°-80°	334.0	8.5
80°-90°	62.9	1.6
90°-100°	18.1	0.5
100°-110°	184.1	4.7
110°-120°	269.1	6.8
120°-130°	156.2	4.0
130°-140°	82.7	2.1
140°-150°	49.1	1.2
150°-160°	30.3	0.8
160°-170°	16.5	0.4
170°-180°	5.4	0.1
0°-90°	3130.1	79.4
0°-180°	3941.6	100.0

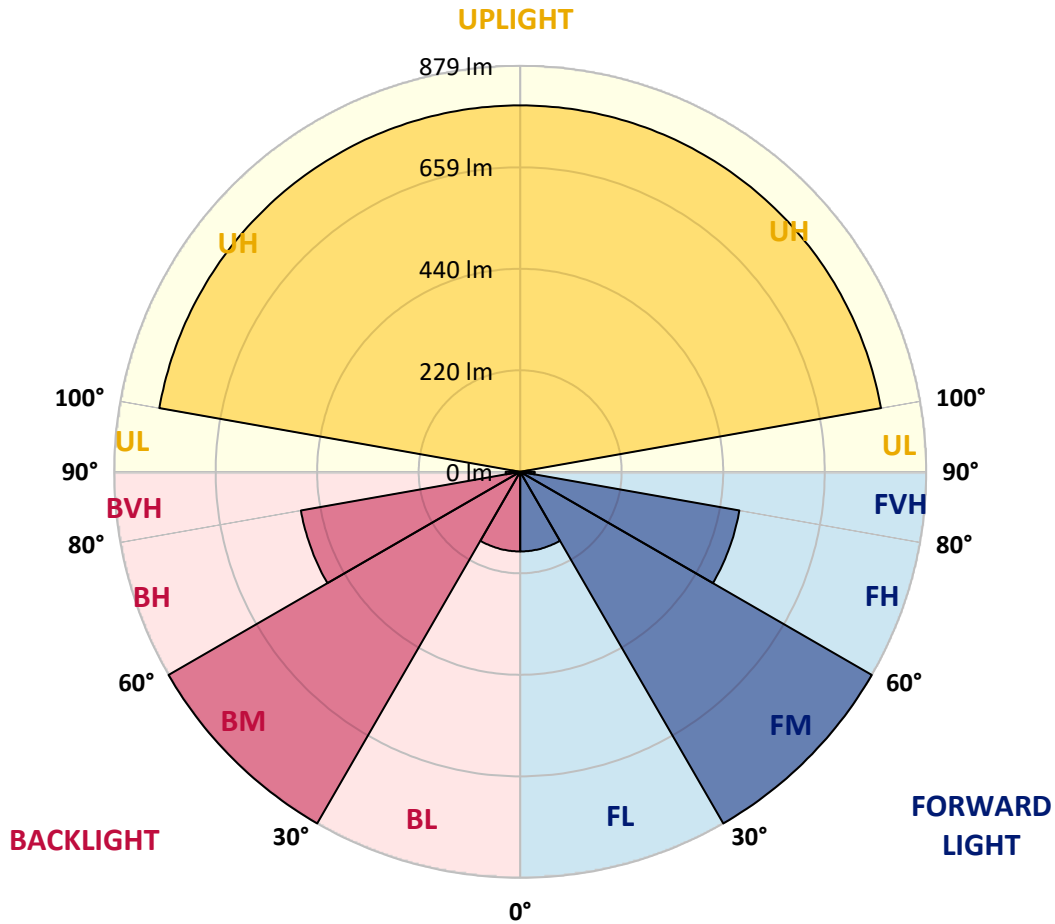


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.4	4.4			
FM (30°-60°)	879.2	22.3			
FH (60°-80°)	482.0	12.2			G0/660
FVH (80°-90°)	31.4	0.8			G1/100
BL (0°-30°)	172.4	4.4	B1/500		
BM (30°-60°)	879.2	22.3	B1/1000		
BH (60°-80°)	482.0	12.2	B1/500		G0/660
BVH (80°-90°)	31.4	0.8			G1/100
UL (90°-100°)	18.1	0.5		U2/50	
UH (100°-180°)	793.4	20.1		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°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
2.5°	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1	318.1
5°	320.9	320.9	318.1	320.9	320.9	320.9	320.9	320.9	320.9	320.9	320.9
7.5°	320.9	320.9	320.9	323.6	323.6	323.6	323.6	320.9	320.9	320.9	320.9
10°	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
12.5°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7
15°	348.5	348.5	348.5	348.5	351.3	351.3	351.3	348.5	348.5	348.5	348.5
17.5°	365.1	365.1	367.9	367.9	370.7	370.7	370.7	367.9	365.1	367.9	365.1
20°	390.0	390.0	390.0	392.8	395.6	395.6	395.6	390.0	390.0	390.0	390.0
22.5°	417.7	417.7	417.7	420.5	423.2	423.2	423.2	417.7	417.7	417.7	417.7
25°	450.9	450.9	450.9	453.7	456.4	459.2	459.2	453.7	450.9	450.9	448.1
27.5°	484.1	484.1	489.6	492.4	495.2	495.2	495.2	489.6	486.9	486.9	486.9
30°	522.8	522.8	528.4	531.1	536.6	536.6	536.6	528.4	525.6	522.8	522.8
32.5°	558.8	561.5	567.1	572.6	578.1	578.1	580.9	569.8	564.3	561.5	561.5
35°	597.5	600.3	605.8	614.1	619.6	622.4	625.2	614.1	605.8	603.0	603.0
37.5°	641.8	644.5	652.8	661.1	672.2	677.7	680.5	663.9	650.1	644.5	644.5
40°	691.6	694.3	702.6	713.7	724.8	730.3	733.1	716.5	702.6	697.1	694.3
42.5°	733.1	738.6	746.9	763.5	774.5	782.8	782.8	763.5	746.9	738.6	738.6
45°	771.8	777.3	791.1	807.7	824.3	832.6	829.9	810.5	791.1	780.1	777.3
47.5°	802.2	807.7	824.3	843.7	865.8	874.1	871.4	849.2	824.3	810.5	807.7
50°	818.8	821.6	840.9	868.6	890.7	899.0	893.5	871.4	843.7	824.3	821.6
52.5°	816.0	818.8	840.9	871.4	896.3	904.6	896.3	871.4	843.7	821.6	818.8
55°	799.4	802.2	824.3	857.5	882.4	890.7	882.4	857.5	827.1	805.0	802.2
57.5°	769.0	771.8	793.9	827.1	854.8	863.1	852.0	824.3	793.9	771.8	771.8
60°	724.8	727.5	749.7	785.6	810.5	818.8	805.0	782.8	752.4	727.5	724.8
62.5°	666.7	666.7	691.6	727.5	749.7	760.7	746.9	722.0	694.3	666.7	669.4
65°	597.5	594.7	619.6	652.8	677.7	686.0	672.2	650.1	622.4	597.5	597.5
67.5°	525.6	525.6	544.9	572.6	594.7	603.0	589.2	569.8	547.7	525.6	525.6
70°	448.1	448.1	462.0	489.6	509.0	514.5	506.2	486.9	467.5	448.1	448.1
72.5°	370.7	367.9	381.7	403.9	420.5	426.0	417.7	406.6	384.5	370.7	370.7
75°	293.2	290.5	298.8	318.1	331.9	337.5	329.2	320.9	304.3	293.2	293.2
77.5°	218.5	215.8	224.1	240.7	249.0	251.7	246.2	240.7	226.8	218.5	218.5
80°	149.4	146.6	152.1	163.2	171.5	171.5	168.7	166.0	154.9	149.4	152.1
82.5°	88.5	85.8	91.3	99.6	105.1	102.4	102.4	99.6	91.3	88.5	88.5
85°	38.7	36.0	38.7	44.3	49.8	47.0	47.0	47.0	41.5	38.7	38.7
87.5°	5.5	5.5	5.5	8.3	11.1	8.3	8.3	8.3	5.5	5.5	5.5
90°	6.9	6.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	6.9
92.5°	6.9	6.9	6.9	9.7	11.1	9.7	11.1	8.3	8.3	6.9	6.9
95°	8.3	8.3	9.7	12.5	15.3	16.7	16.7	9.7	9.7	8.3	8.3
97.5°	11.1	12.5	12.5	15.3	25.0	45.8	27.8	13.9	13.9	12.5	11.1
100°	18.0	19.4	19.4	34.7	73.6	98.6	70.8	36.1	26.4	19.4	19.4
102.5°	58.3	61.1	75.0	112.5	166.6	151.3	127.7	120.8	83.3	66.6	63.9
105°	148.6	147.2	158.3	187.4	233.3	229.1	211.0	191.6	165.2	152.7	152.7
107.5°	195.8	195.8	205.5	230.5	265.2	309.6	313.8	248.5	218.0	204.1	202.7
110°	220.8	220.8	229.1	249.9	295.7	358.2	355.4	306.8	269.4	251.3	248.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.3	227.7	238.8	270.7	320.7	348.5	336.0	316.6	299.9	286.0	283.2
115°	234.6	234.6	247.1	277.7	305.5	316.6	302.7	287.4	276.3	270.7	273.5
117.5°	231.9	236.0	238.8	255.5	273.5	281.8	274.9	254.1	245.8	243.0	238.8
120°	215.2	215.2	218.0	226.3	236.0	240.2	237.4	223.5	216.6	215.2	212.4
122.5°	191.6	193.0	191.6	195.8	202.7	206.9	204.1	193.0	190.2	190.2	187.4
125°	168.0	168.0	166.6	169.4	173.6	172.2	173.6	168.0	166.6	166.6	165.2
127.5°	151.3	149.9	147.2	148.6	149.9	149.9	151.3	145.8	147.2	148.6	147.2
130°	134.7	134.7	131.9	131.9	131.9	129.1	131.9	129.1	130.5	131.9	133.3
132.5°	119.4	119.4	115.2	113.9	113.9	113.9	115.2	113.9	116.6	119.4	119.4
135°	106.9	106.9	102.7	104.1	104.1	102.7	104.1	102.7	105.5	106.9	106.9
137.5°	97.2	97.2	94.4	94.4	94.4	93.0	94.4	94.4	95.8	98.6	100.0
140°	88.9	88.9	87.5	87.5	86.1	87.5	87.5	87.5	88.9	90.2	90.2
142.5°	84.7	83.3	81.9	80.5	81.9	81.9	81.9	80.5	81.9	84.7	84.7
145°	77.8	77.8	76.4	76.4	76.4	77.8	76.4	76.4	77.8	77.8	79.1
147.5°	73.6	73.6	72.2	73.6	73.6	73.6	73.6	72.2	73.6	73.6	75.0
150°	72.2	70.8	69.4	70.8	70.8	69.4	69.4	69.4	69.4	70.8	70.8
152.5°	68.0	68.0	66.6	68.0	66.6	66.6	66.6	66.6	66.6	68.0	69.4
155°	65.3	65.3	63.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
157.5°	62.5	63.9	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.9	63.9
160°	61.1	61.1	61.1	61.1	59.7	59.7	59.7	61.1	61.1	61.1	62.5
162.5°	59.7	59.7	59.7	59.7	58.3	58.3	58.3	58.3	59.7	59.7	61.1
165°	59.7	58.3	58.3	58.3	56.9	56.9	56.9	56.9	58.3	59.7	58.3
167.5°	56.9	56.9	56.9	56.9	56.9	55.5	55.5	56.9	56.9	56.9	58.3
170°	56.9	56.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.9
172.5°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	55.5	55.5	56.9	56.9
175°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	56.9	56.9	56.9	55.5
177.5°	56.9	56.9	56.9	56.9	55.5	56.9	56.9	56.9	56.9	56.9	56.9
180°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9

(END OF REPORT)