

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: P832842

Luminaire Tested: **TTN-D0-740-U-MQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832842
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-D0-740-U-MQ-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2044.7 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U4 - G1

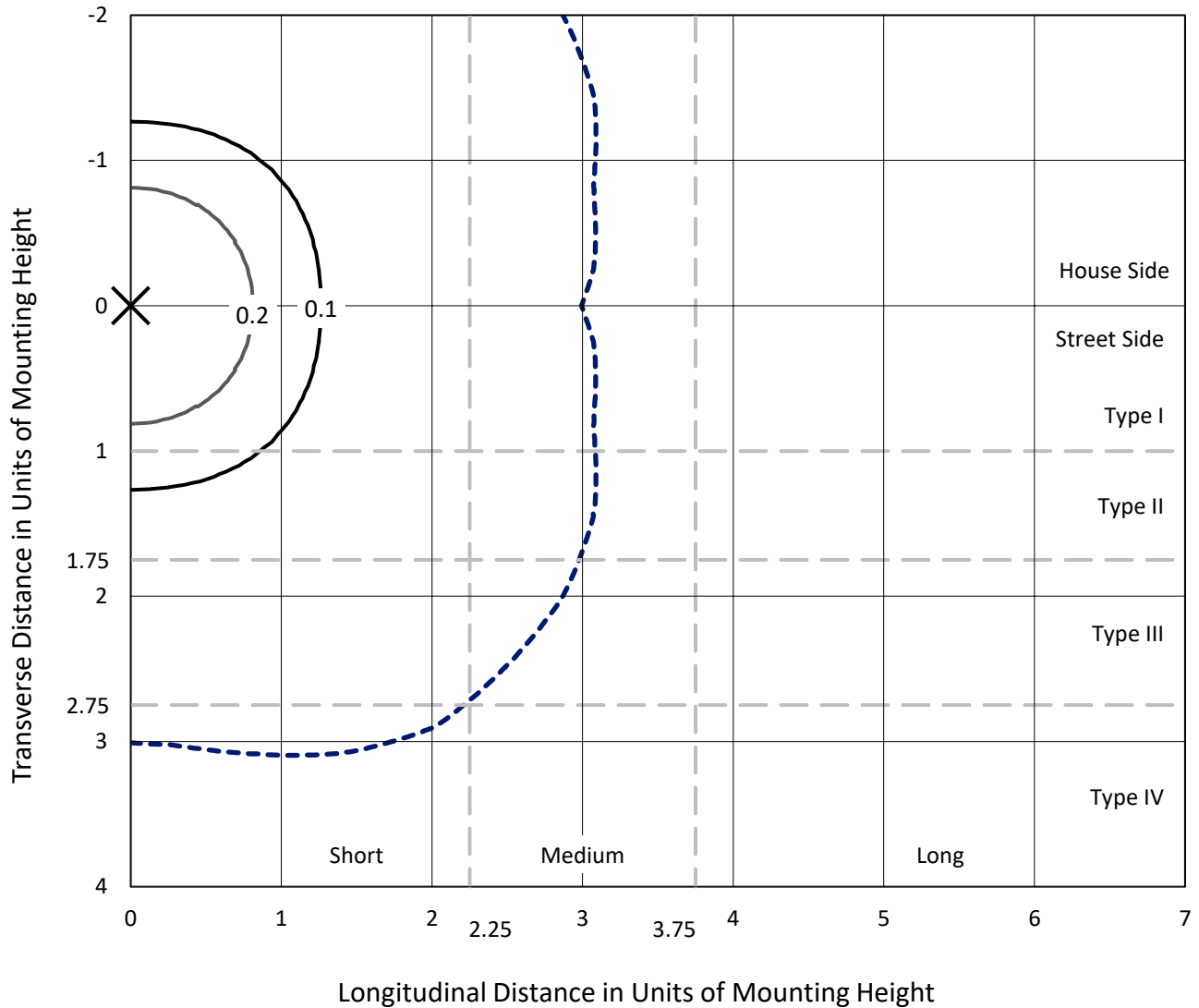
Input Watts (W): 17.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P832842
 CATALOG NUMBER: TTN-D0-740-U-MQ-CG-UPL3

Iso-Footcandle Lines of Horizontal Illumination

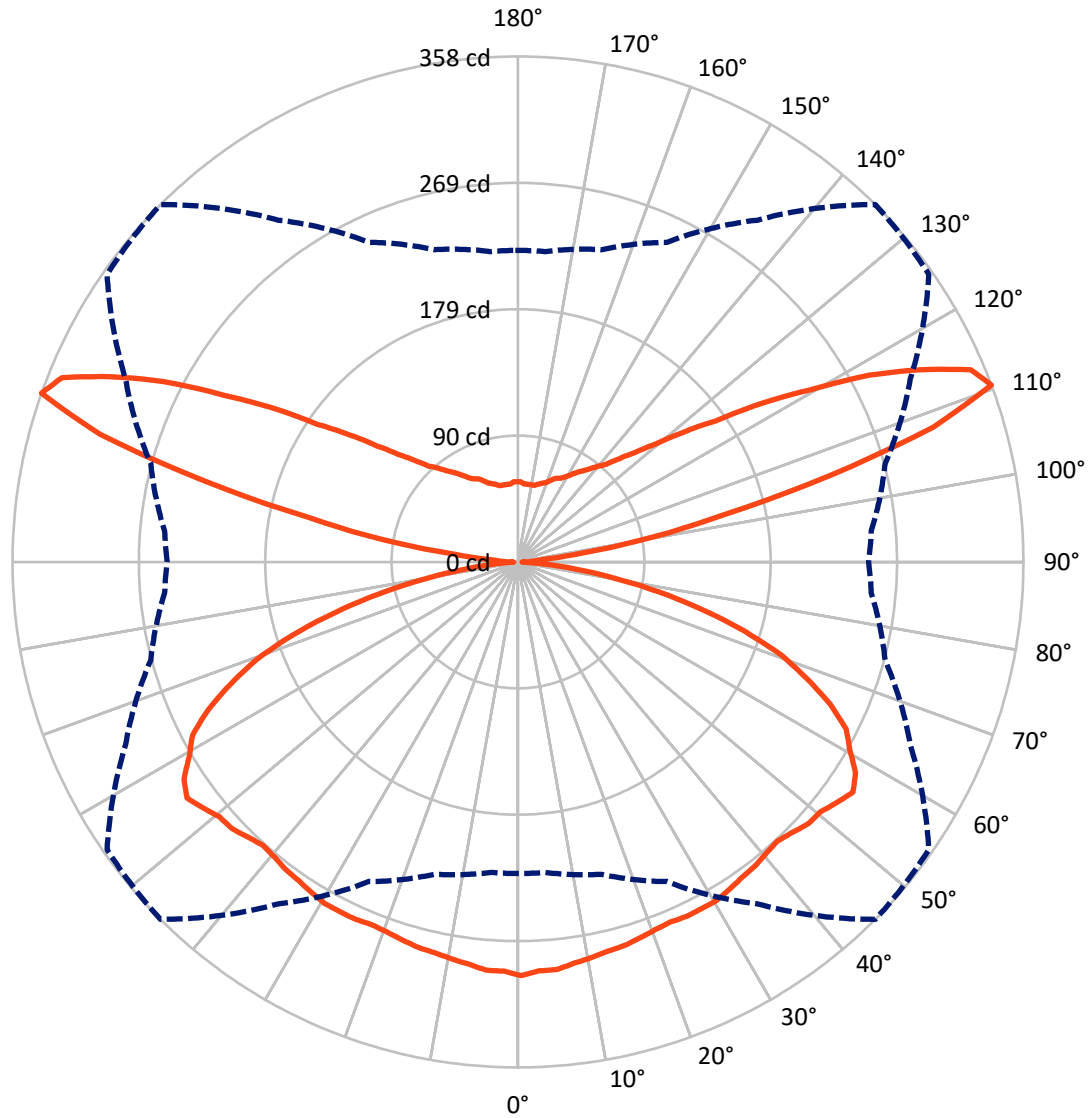
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

REPORT NUMBER: P832842
CATALOG NUMBER: TTN-D0-740-U-MQ-CG-UPL3

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 110-Deg Vertical

REPORT NUMBER: P832842
 CATALOG NUMBER: TTN-D0-740-U-MQ-CG-UPL3

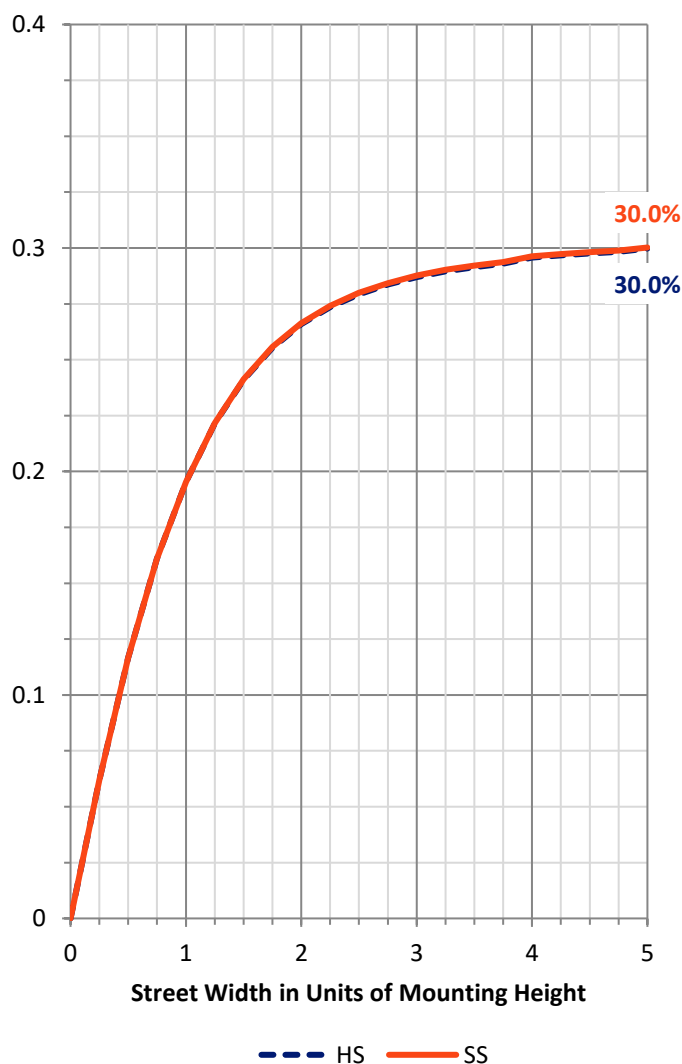
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	616.6	405.8	1022.3
	% Fixture	30.2	19.8	50.0
Street Side	Lumens	616.6	405.8	1022.3
	% Fixture	30.2	19.8	50.0
Total	Lumens	1233.1	811.5	2044.7
	% Fixture	60.3	39.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.3
10°-20°	79.6	3.9
20°-30°	128.1	6.3
30°-40°	171.1	8.4
40°-50°	207.9	10.2
50°-60°	241.6	11.8
60°-70°	222.9	10.9
70°-80°	130.4	6.4
80°-90°	23.9	1.2
90°-100°	18.1	0.9
100°-110°	184.1	9.0
110°-120°	269.1	13.2
120°-130°	156.2	7.6
130°-140°	82.7	4.0
140°-150°	49.1	2.4
150°-160°	30.3	1.5
160°-170°	16.5	0.8
170°-180°	5.4	0.3
0°-90°	1233.1	60.3
0°-180°	2044.7	100.0

Coefficient of Utilization



REPORT NUMBER: P832842

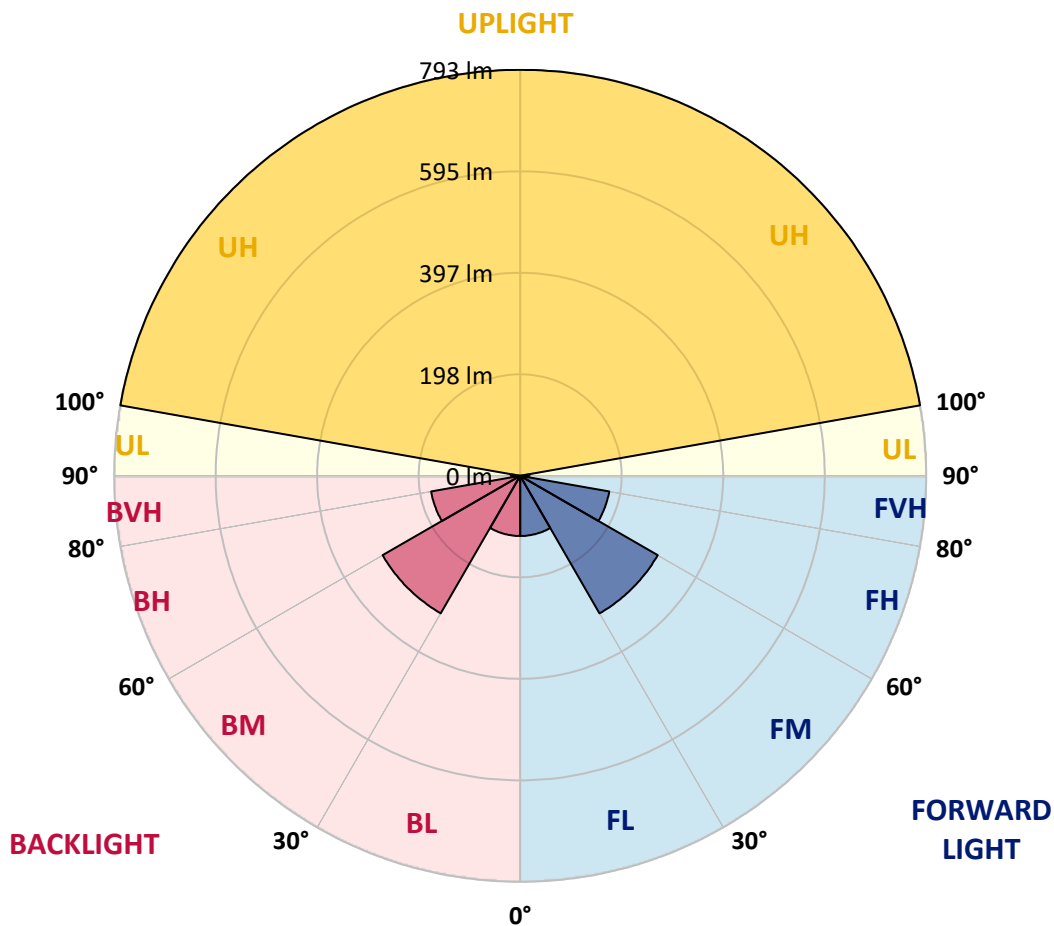
CATALOG NUMBER: TTN-D0-740-U-MQ-CG-UPL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.6	5.8			
FM (30°-60°)	310.3	15.2			
FH (60°-80°)	176.7	8.6			G0/660
FVH (80°-90°)	12.0	0.6			G1/100
BL (0°-30°)	117.6	5.8	B1/500		
BM (30°-60°)	310.3	15.2	B1/1000		
BH (60°-80°)	176.7	8.6	B1/500		G0/660
BVH (80°-90°)	12.0	0.6			G1/100
UL (90°-100°)	18.1	0.9		U2/50	
UH (100°-180°)	793.4	38.8		U4/1000	

BUG Rating: B1-U4-G1

Type V Short





REPORT NUMBER: P832842

CATALOG NUMBER: TTN-D0-740-U-MQ-CG-UPL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1
2.5°	290.1	291.1	290.1	290.1	290.1	290.1	290.1	290.1	290.1	290.1	291.1
5°	291.1	291.1	291.1	291.1	290.1	290.1	290.1	290.1	290.1	291.1	291.1
7.5°	288.1	288.1	288.1	288.1	288.1	287.1	288.1	288.1	288.1	288.1	288.1
10°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
12.5°	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	282.1	282.1
15°	281.1	281.1	281.1	281.1	282.1	282.1	281.1	281.1	281.1	281.1	281.1
17.5°	279.1	279.1	279.1	279.1	280.1	280.1	280.1	279.1	279.1	279.1	279.1
20°	277.1	277.1	277.1	277.1	278.1	278.1	278.1	278.1	278.1	277.1	277.1
22.5°	276.1	276.1	276.1	276.1	277.1	277.1	277.1	277.1	276.1	276.1	276.1
25°	275.1	276.1	276.1	276.1	277.1	278.1	278.1	277.1	276.1	275.1	275.1
27.5°	276.1	276.1	276.1	277.1	277.1	278.1	278.1	277.1	276.1	276.1	276.1
30°	275.1	275.1	275.1	276.1	277.1	278.1	277.1	277.1	276.1	275.1	275.1
32.5°	273.1	273.1	274.1	275.1	276.1	276.1	276.1	275.1	274.1	273.1	273.1
35°	271.1	271.1	271.1	272.1	274.1	274.1	274.1	273.1	272.1	271.1	270.1
37.5°	268.1	269.1	269.1	271.1	272.1	273.1	272.1	271.1	269.1	268.1	268.1
40°	266.1	266.1	267.1	269.1	271.1	271.1	270.1	269.1	267.1	266.1	266.1
42.5°	263.1	263.1	265.1	267.1	270.1	270.1	269.1	267.1	265.1	263.1	263.1
45°	263.1	263.1	265.1	269.1	271.1	273.1	271.1	269.1	265.1	263.1	262.1
47.5°	264.1	264.1	266.1	271.1	275.1	277.1	274.1	270.1	266.1	264.1	263.1
50°	262.1	263.1	267.1	272.1	277.1	278.1	277.1	271.1	267.1	262.1	262.1
52.5°	263.1	263.1	268.1	276.1	281.1	283.1	281.1	276.1	267.1	262.1	262.1
55°	261.1	260.1	267.1	276.1	284.1	288.1	284.1	276.1	266.1	260.1	259.1
57.5°	252.1	252.1	261.1	270.1	280.1	282.1	279.1	270.1	260.1	252.1	250.1
60°	240.1	241.1	250.1	260.1	269.1	270.1	268.1	260.1	250.1	241.1	238.1
62.5°	227.1	229.1	238.1	248.1	259.1	261.1	258.1	248.1	236.1	230.1	225.1
65°	208.1	211.1	221.1	232.1	244.1	243.1	243.1	231.1	222.1	212.1	207.1
67.5°	187.1	190.1	197.1	212.1	222.1	221.1	220.1	212.1	197.1	190.1	187.1
70°	164.1	166.1	173.1	188.1	197.1	198.1	195.1	187.1	173.1	168.1	163.1
72.5°	137.0	138.0	148.0	160.0	169.1	168.1	167.1	160.0	147.0	142.0	136.0
75°	108.0	109.0	118.0	129.0	136.0	135.0	134.0	129.0	118.0	112.0	107.0
77.5°	81.0	80.0	89.0	97.0	101.0	102.0	100.0	96.0	88.0	83.0	80.0
80°	53.0	52.0	60.0	66.0	69.0	69.0	68.0	65.0	59.0	55.0	53.0
82.5°	30.0	29.0	34.0	38.0	41.0	40.0	39.0	37.0	34.0	31.0	29.0
85°	11.0	11.0	14.0	16.0	18.0	18.0	17.0	16.0	13.0	12.0	11.0
87.5°	1.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
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



REPORT NUMBER: P832842

CATALOG NUMBER: TTN-D0-740-U-MQ-CG-UPL3

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)