

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: P833175

Luminaire Tested: **TTN-D1-735-U-MQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833175
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-D1-735-U-MQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4094.7 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

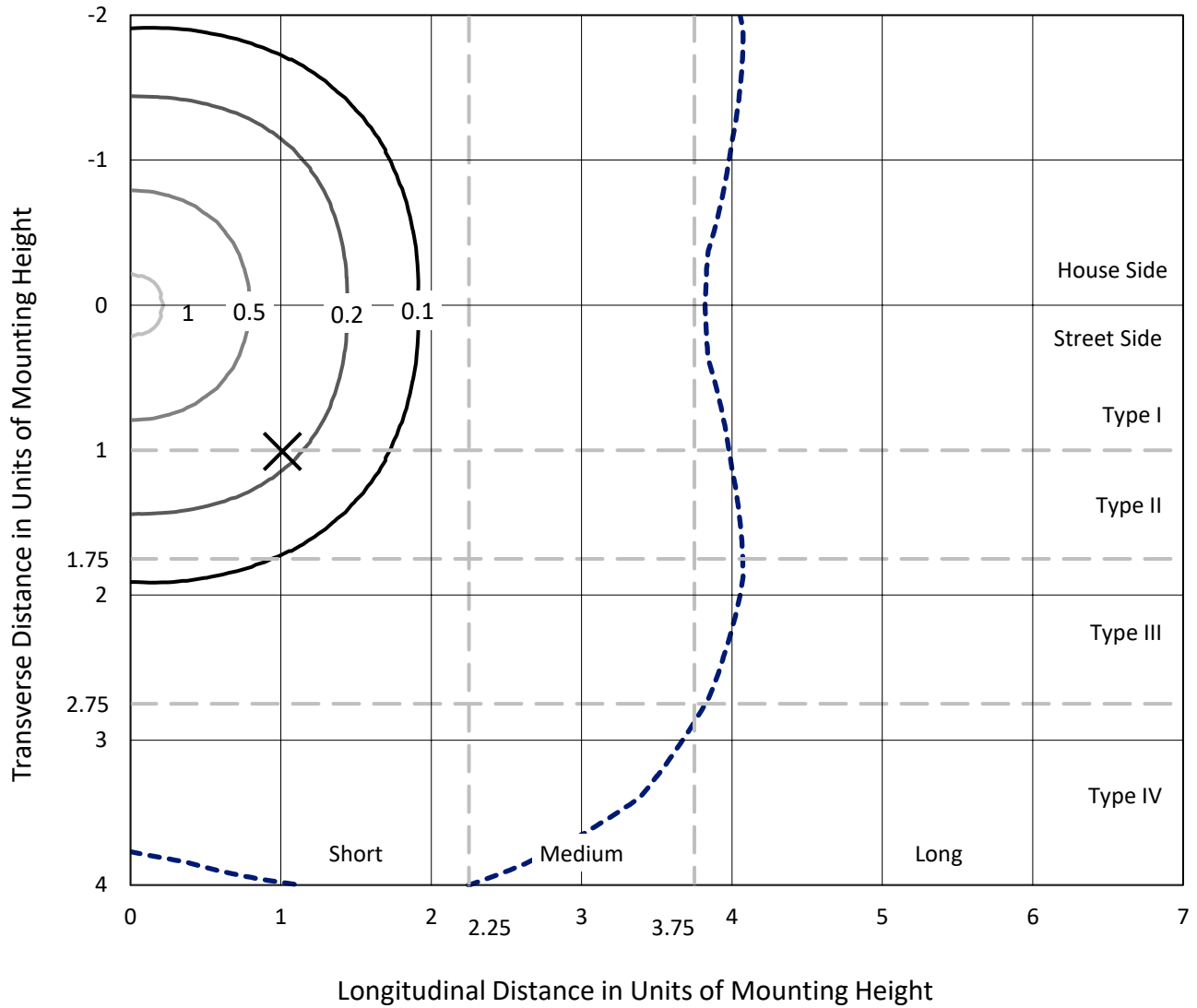
Input Watts (W): 33.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

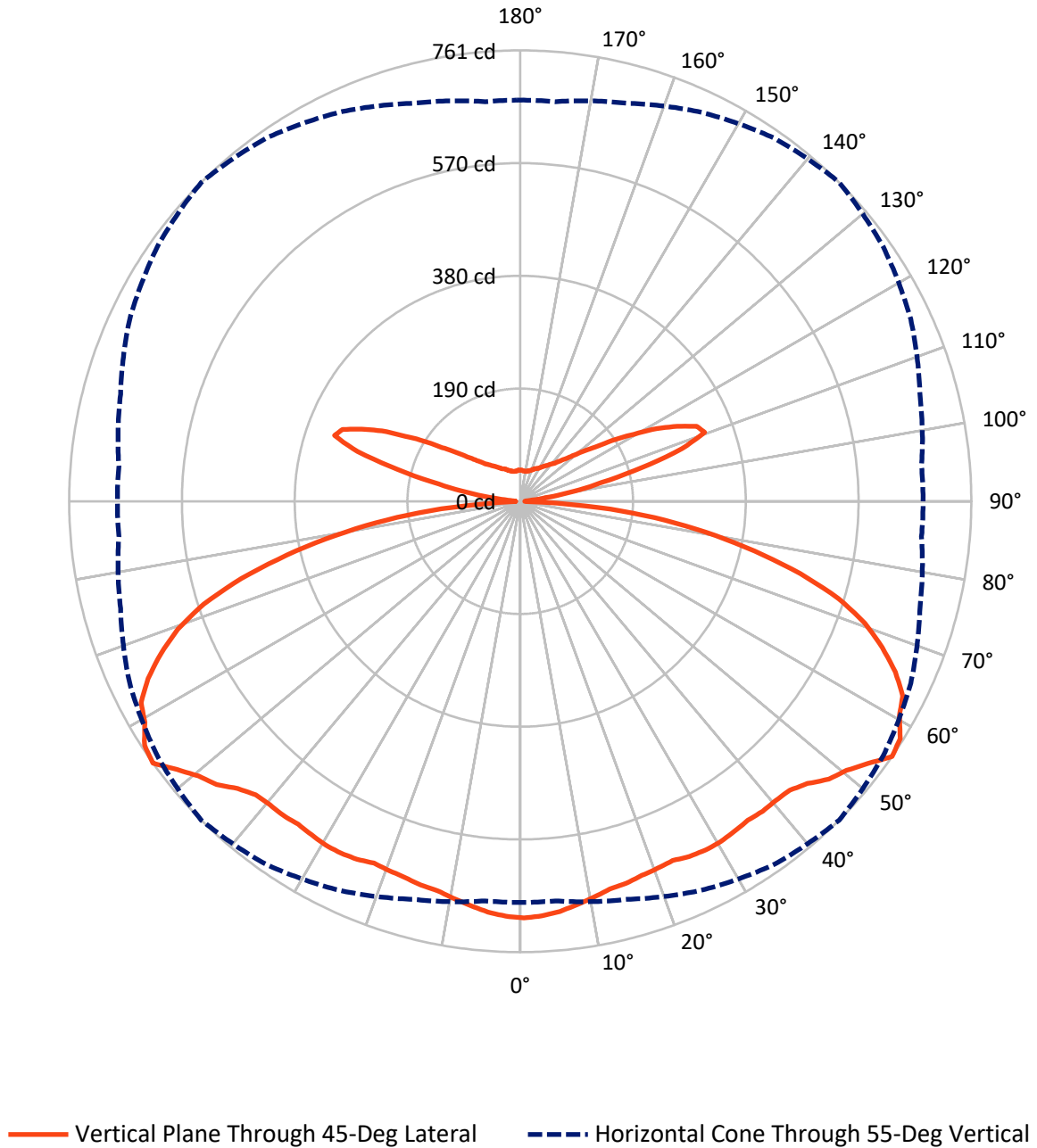
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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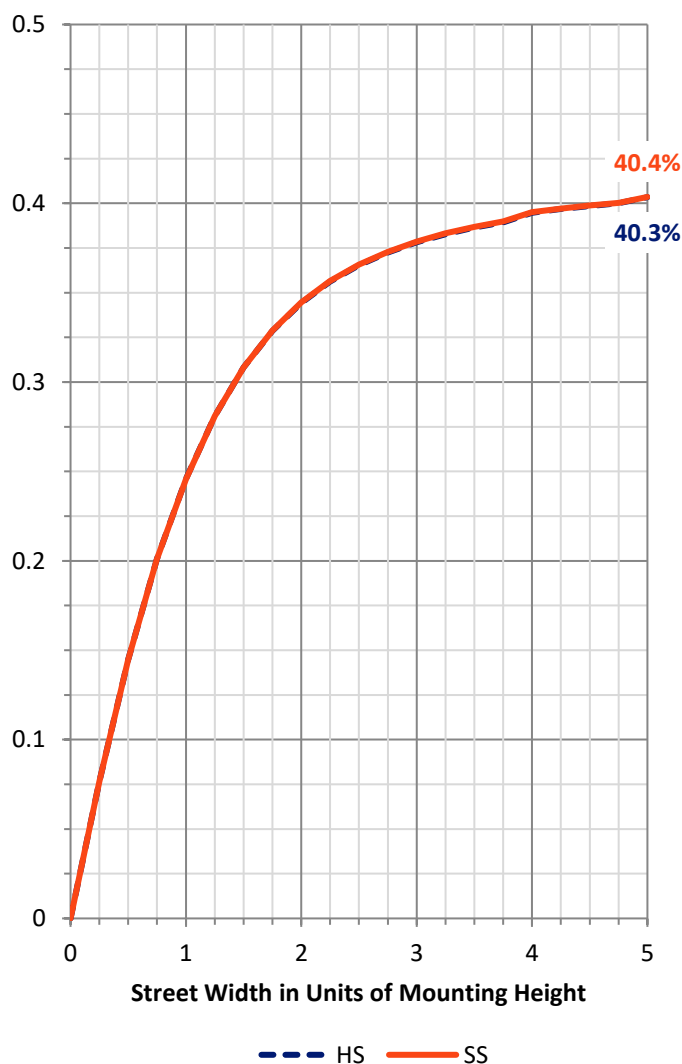
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1671.0	376.3	2047.3
	% Fixture	40.8	9.2	50.0
Street Side	Lumens	1671.0	376.3	2047.3
	% Fixture	40.8	9.2	50.0
Total	Lumens	3342.0	752.7	4094.7
	% Fixture	81.6	18.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.6
10°-20°	188.9	4.6
20°-30°	305.3	7.5
30°-40°	413.1	10.1
40°-50°	517.4	12.6
50°-60°	634.1	15.5
60°-70°	635.6	15.5
70°-80°	458.7	11.2
80°-90°	123.3	3.0
90°-100°	16.8	0.4
100°-110°	170.7	4.2
110°-120°	249.6	6.1
120°-130°	144.9	3.5
130°-140°	76.7	1.9
140°-150°	45.6	1.1
150°-160°	28.1	0.7
160°-170°	15.3	0.4
170°-180°	5.0	0.1
0°-90°	3342.0	81.6
0°-180°	4094.7	100.0

Coefficient of Utilization



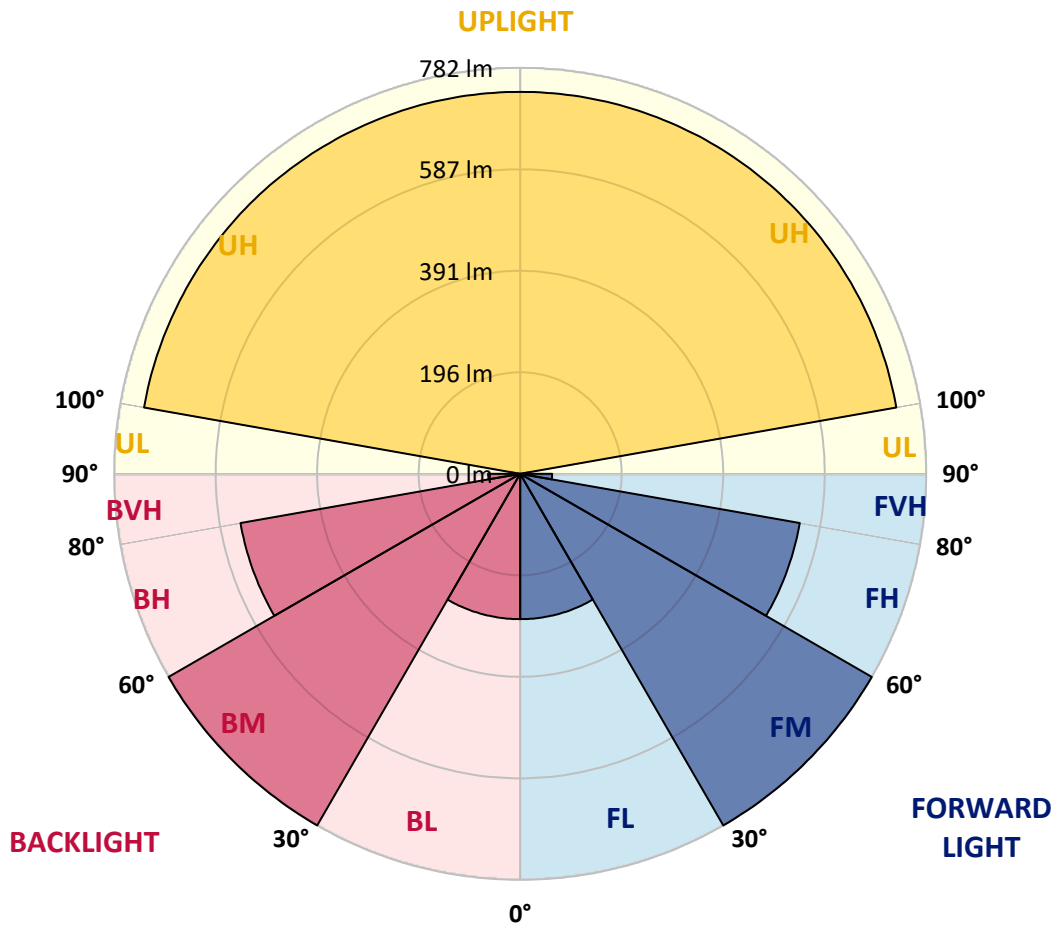
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.0	6.8			
FM (30°-60°)	782.3	19.1			
FH (60°-80°)	547.1	13.4			G0/660
FVH (80°-90°)	61.7	1.5			G1/100
BL (0°-30°)	280.0	6.8	B1/500		
BM (30°-60°)	782.3	19.1	B1/1000		
BH (60°-80°)	547.1	13.4	B2/1000		G0/660
BVH (80°-90°)	61.7	1.5			G1/100
UL (90°-100°)	16.8	0.4		U2/50	
UH (100°-180°)	735.8	18.0		U4/1000	

BUG Rating: B2-U4-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.9
2.5°	700.3	700.3	700.3	697.7	700.3	700.3	700.3	700.3	700.3	700.3	700.3
5°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1
7.5°	687.2	687.2	687.2	687.2	687.2	687.2	687.2	687.2	687.2	687.2	687.2
10°	676.7	676.7	676.7	676.7	679.3	679.3	679.3	679.3	676.7	676.7	676.7
12.5°	668.8	668.8	668.8	671.4	671.4	671.4	671.4	671.4	671.4	671.4	668.8
15°	666.2	666.2	666.2	666.2	668.8	668.8	668.8	668.8	666.2	666.2	666.2
17.5°	661.0	661.0	661.0	663.6	663.6	663.6	663.6	663.6	661.0	661.0	661.0
20°	655.7	655.7	658.3	658.3	661.0	661.0	661.0	658.3	658.3	655.7	658.3
22.5°	655.7	655.7	655.7	658.3	658.3	658.3	658.3	655.7	655.7	655.7	655.7
25°	655.7	655.7	658.3	661.0	661.0	663.6	661.0	658.3	655.7	655.7	655.7
27.5°	658.3	658.3	661.0	663.6	663.6	666.2	663.6	661.0	658.3	658.3	658.3
30°	658.3	658.3	661.0	663.6	663.6	666.2	663.6	661.0	658.3	658.3	658.3
32.5°	653.1	655.7	658.3	661.0	663.6	663.6	663.6	661.0	658.3	655.7	655.7
35°	650.5	653.1	655.7	658.3	661.0	661.0	661.0	658.3	655.7	653.1	653.1
37.5°	647.8	647.8	653.1	655.7	658.3	663.6	661.0	655.7	653.1	650.5	650.5
40°	645.2	647.8	650.5	655.7	658.3	663.6	661.0	655.7	650.5	647.8	647.8
42.5°	645.2	645.2	650.5	655.7	661.0	666.2	663.6	658.3	650.5	647.8	645.2
45°	647.8	650.5	658.3	668.8	674.1	679.3	676.7	668.8	655.7	650.5	647.8
47.5°	658.3	661.0	668.8	679.3	692.4	700.3	692.4	679.3	668.8	661.0	658.3
50°	663.6	666.2	679.3	692.4	710.8	713.4	710.8	692.4	679.3	666.2	666.2
52.5°	674.1	674.1	689.8	713.4	729.1	734.4	729.1	716.0	689.8	676.7	674.1
55°	676.7	676.7	695.1	723.9	747.5	760.6	747.5	726.5	697.7	679.3	679.3
57.5°	661.0	666.2	689.8	718.7	747.5	755.4	747.5	721.3	692.4	668.8	666.2
60°	642.6	650.5	671.4	705.5	726.5	734.4	729.1	705.5	674.1	650.5	647.8
62.5°	624.2	634.7	658.3	684.6	716.0	723.9	716.0	684.6	658.3	634.7	624.2
65°	584.9	595.4	629.5	661.0	689.8	695.1	692.4	661.0	629.5	595.4	590.1
67.5°	545.6	553.4	577.0	626.9	650.5	658.3	653.1	624.2	579.6	553.4	550.8
70°	503.6	511.5	532.4	579.6	603.3	616.4	605.9	579.6	532.4	511.5	508.8
72.5°	448.5	459.0	482.6	524.6	548.2	561.3	550.8	524.6	482.6	456.4	451.1
75°	382.9	390.8	419.7	453.8	477.4	487.8	480.0	456.4	419.7	390.8	388.2
77.5°	312.1	320.0	346.2	380.3	393.4	403.9	396.0	377.7	346.2	320.0	317.4
80°	236.1	243.9	267.5	293.8	306.9	317.4	309.5	291.1	267.5	243.9	241.3
82.5°	154.7	162.6	183.6	204.6	217.7	228.2	220.3	202.0	186.2	162.6	160.0
85°	65.6	73.4	91.8	112.8	123.3	133.8	125.9	110.2	91.8	76.1	73.4
87.5°	5.2	7.9	7.9	10.5	7.9	13.1	7.9	7.9	7.9	7.9	7.9
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)