

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: P833234

Luminaire Tested: **TTN-D1-750-U-MQ-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833234
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-D1-750-U-MQ-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4109.7 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

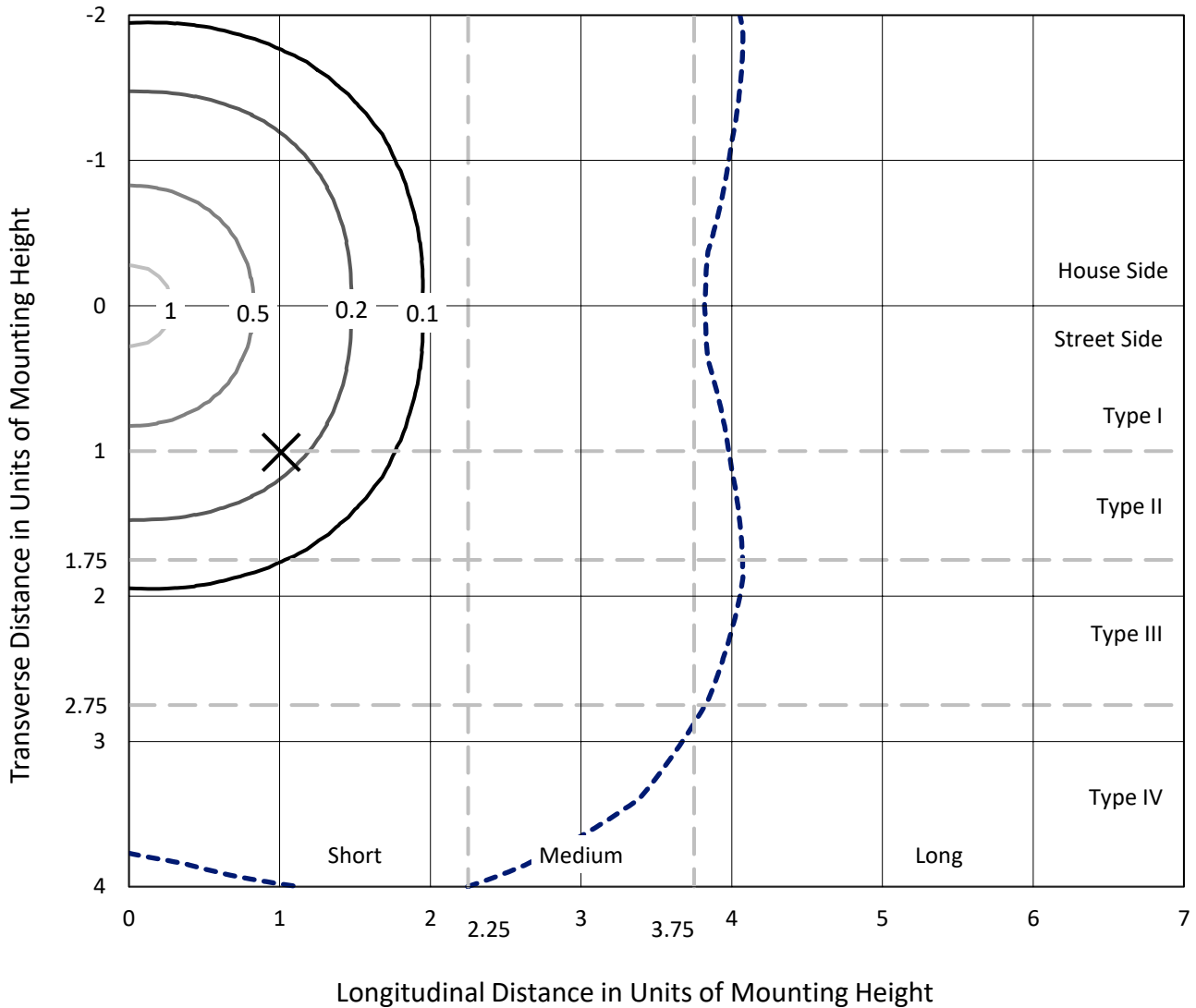
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

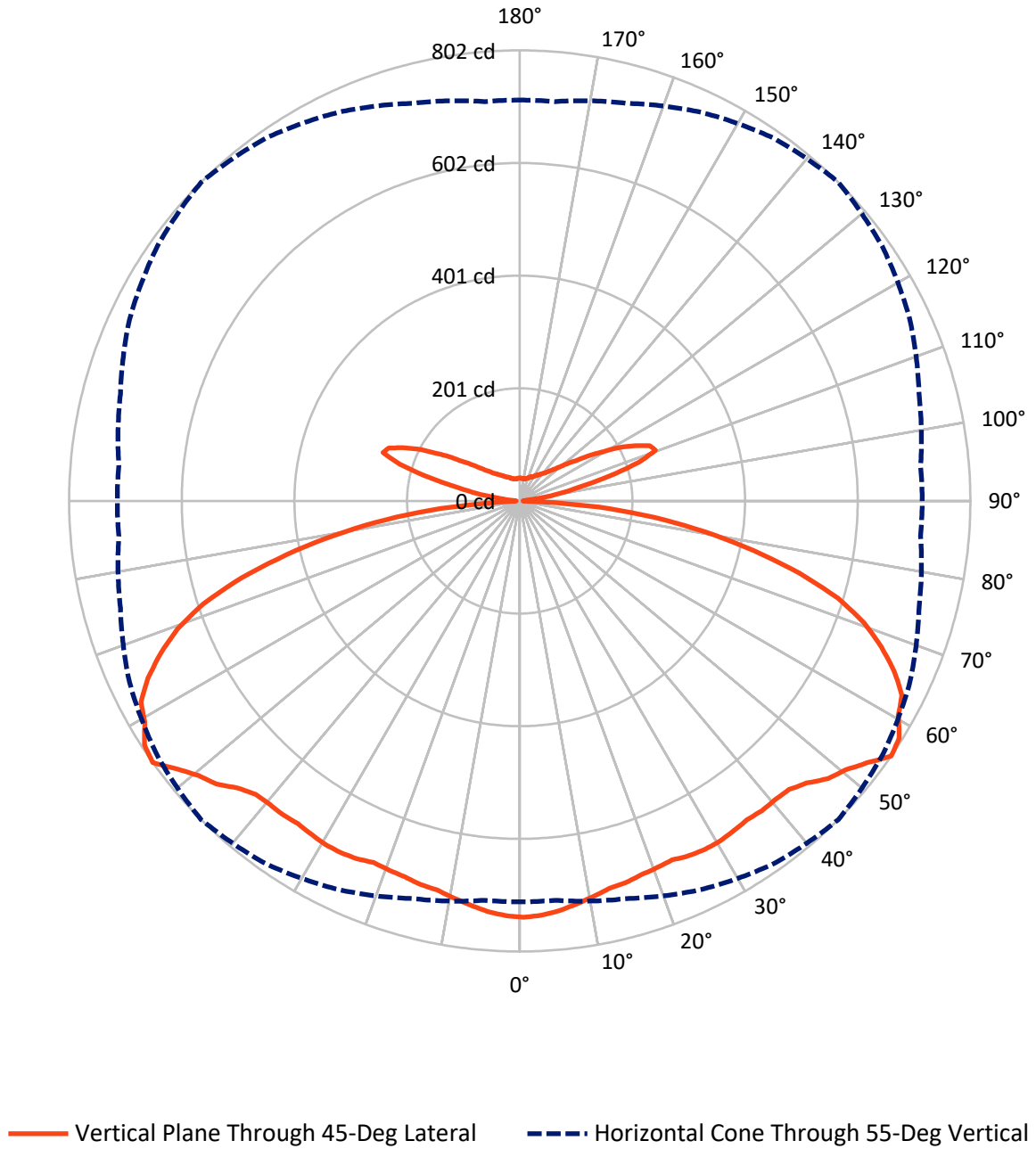
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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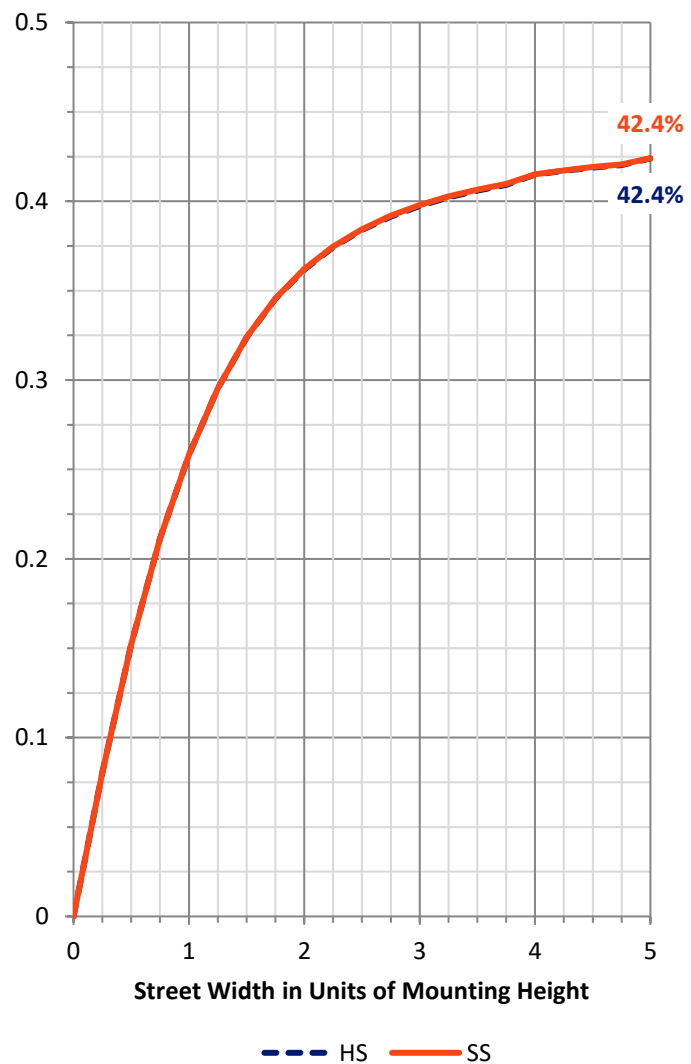
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.4	292.5	2054.9
	% Fixture	42.9	7.1	50.0
Street Side	Lumens	1762.4	292.5	2054.9
	% Fixture	42.9	7.1	50.0
Total	Lumens	3524.8	584.9	4109.7
	% Fixture	85.8	14.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.7
10°-20°	199.2	4.8
20°-30°	322.0	7.8
30°-40°	435.7	10.6
40°-50°	545.7	13.3
50°-60°	668.8	16.3
60°-70°	670.4	16.3
70°-80°	483.8	11.8
80°-90°	129.8	3.2
90°-100°	13.1	0.3
100°-110°	132.7	3.2
110°-120°	194.0	4.7
120°-130°	112.6	2.7
130°-140°	59.7	1.5
140°-150°	35.4	0.9
150°-160°	21.8	0.5
160°-170°	11.9	0.3
170°-180°	3.9	0.1
0°-90°	3524.8	85.8
0°-180°	4109.7	100.0

Coefficient of Utilization



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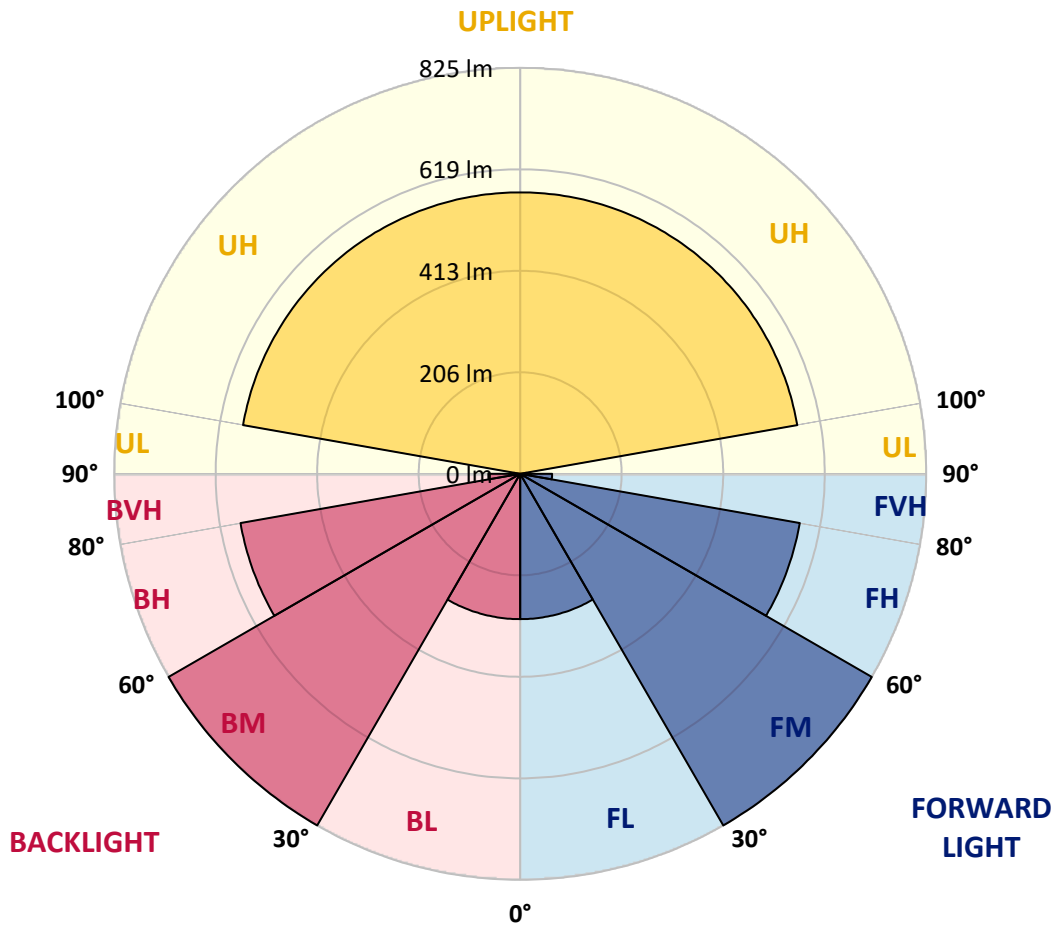
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.3	7.2			
FM (30°-60°)	825.1	20.1			
FH (60°-80°)	577.1	14.0			G0/660
FVH (80°-90°)	64.9	1.6			G1/100
BL (0°-30°)	295.3	7.2	B1/500		
BM (30°-60°)	825.1	20.1	B1/1000		
BH (60°-80°)	577.1	14.0	B2/1000		G0/660
BVH (80°-90°)	64.9	1.6			G1/100
UL (90°-100°)	13.1	0.3		U2/50	
UH (100°-180°)	571.8	13.9		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°	741.4	741.4	741.4	741.4	741.4	741.4	741.4	741.4	741.4	741.4	741.4
2.5°	738.7	738.7	738.7	735.9	738.7	738.7	738.7	738.7	738.7	738.7	738.7
5°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
7.5°	724.8	724.8	724.8	724.8	724.8	724.8	724.8	724.8	724.8	724.8	724.8
10°	713.8	713.8	713.8	713.8	716.5	716.5	716.5	716.5	713.8	713.8	713.8
12.5°	705.5	705.5	705.5	708.2	708.2	708.2	708.2	708.2	708.2	708.2	705.5
15°	702.7	702.7	702.7	702.7	705.5	705.5	705.5	705.5	702.7	702.7	702.7
17.5°	697.2	697.2	697.2	699.9	699.9	699.9	699.9	699.9	697.2	697.2	697.2
20°	691.6	691.6	694.4	694.4	697.2	697.2	697.2	694.4	694.4	691.6	694.4
22.5°	691.6	691.6	691.6	694.4	694.4	694.4	694.4	691.6	691.6	691.6	691.6
25°	691.6	691.6	694.4	697.2	697.2	699.9	697.2	694.4	691.6	691.6	691.6
27.5°	694.4	694.4	697.2	699.9	699.9	702.7	699.9	697.2	694.4	694.4	694.4
30°	694.4	694.4	697.2	699.9	699.9	702.7	699.9	697.2	694.4	694.4	694.4
32.5°	688.9	691.6	694.4	697.2	699.9	699.9	699.9	697.2	694.4	691.6	691.6
35°	686.1	688.9	691.6	694.4	697.2	697.2	697.2	694.4	691.6	688.9	688.9
37.5°	683.3	683.3	688.9	691.6	694.4	699.9	697.2	691.6	688.9	686.1	686.1
40°	680.6	683.3	686.1	691.6	694.4	699.9	697.2	691.6	686.1	683.3	683.3
42.5°	680.6	680.6	686.1	691.6	697.2	702.7	699.9	694.4	686.1	683.3	680.6
45°	683.3	686.1	694.4	705.5	711.0	716.5	713.8	705.5	691.6	686.1	683.3
47.5°	694.4	697.2	705.5	716.5	730.4	738.7	730.4	716.5	705.5	697.2	694.4
50°	699.9	702.7	716.5	730.4	749.7	752.5	749.7	730.4	716.5	702.7	702.7
52.5°	711.0	711.0	727.6	752.5	769.1	774.6	769.1	755.3	727.6	713.8	711.0
55°	713.8	713.8	733.1	763.6	788.5	802.3	788.5	766.3	735.9	716.5	716.5
57.5°	697.2	702.7	727.6	758.0	788.5	796.8	788.5	760.8	730.4	705.5	702.7
60°	677.8	686.1	708.2	744.2	766.3	774.6	769.1	744.2	711.0	686.1	683.3
62.5°	658.4	669.5	694.4	722.1	755.3	763.6	755.3	722.1	694.4	669.5	658.4
65°	616.9	628.0	664.0	697.2	727.6	733.1	730.4	697.2	664.0	628.0	622.5
67.5°	575.4	583.7	608.6	661.2	686.1	694.4	688.9	658.4	611.4	583.7	581.0
70°	531.2	539.5	561.6	611.4	636.3	650.1	639.1	611.4	561.6	539.5	536.7
72.5°	473.1	484.1	509.0	553.3	578.2	592.0	581.0	553.3	509.0	481.4	475.8
75°	403.9	412.2	442.6	478.6	503.5	514.6	506.3	481.4	442.6	412.2	409.4
77.5°	329.2	337.5	365.2	401.1	415.0	426.0	417.7	398.4	365.2	337.5	334.7
80°	249.0	257.3	282.2	309.8	323.7	334.7	326.4	307.1	282.2	257.3	254.5
82.5°	163.2	171.5	193.7	215.8	229.6	240.7	232.4	213.0	196.4	171.5	168.8
85°	69.2	77.5	96.8	119.0	130.0	141.1	132.8	116.2	96.8	80.2	77.5
87.5°	5.5	8.3	8.3	11.1	8.3	13.8	8.3	8.3	8.3	8.3	8.3
90°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.0	5.0
92.5°	5.0	5.0	5.0	7.0	8.0	7.0	8.0	6.0	6.0	5.0	5.0
95°	6.0	6.0	7.0	9.0	11.0	12.0	12.0	7.0	7.0	6.0	6.0
97.5°	8.0	9.0	9.0	11.0	18.0	33.0	20.0	10.0	10.0	9.0	8.0
100°	13.0	14.0	14.0	25.0	53.0	71.1	51.0	26.0	19.0	14.0	14.0
102.5°	42.0	44.0	54.0	81.1	120.1	109.1	92.1	87.1	60.0	48.0	46.0
105°	107.1	106.1	114.1	135.1	168.1	165.1	152.1	138.1	119.1	110.1	110.1
107.5°	141.1	141.1	148.1	166.1	191.1	223.2	226.2	179.1	157.1	147.1	146.1
110°	159.1	159.1	165.1	180.1	213.2	258.2	256.2	221.2	194.1	181.1	179.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	163.1	164.1	172.1	195.1	231.2	251.2	242.2	228.2	216.2	206.2	204.2
115°	169.1	169.1	178.1	200.2	220.2	228.2	218.2	207.2	199.2	195.1	197.1
117.5°	167.1	170.1	172.1	184.1	197.1	203.2	198.1	183.1	177.1	175.1	172.1
120°	155.1	155.1	157.1	163.1	170.1	173.1	171.1	161.1	156.1	155.1	153.1
122.5°	138.1	139.1	138.1	141.1	146.1	149.1	147.1	139.1	137.1	137.1	135.1
125°	121.1	121.1	120.1	122.1	125.1	124.1	125.1	121.1	120.1	120.1	119.1
127.5°	109.1	108.1	106.1	107.1	108.1	108.1	109.1	105.1	106.1	107.1	106.1
130°	97.1	97.1	95.1	95.1	95.1	93.1	95.1	93.1	94.1	95.1	96.1
132.5°	86.1	86.1	83.1	82.1	82.1	82.1	83.1	82.1	84.1	86.1	86.1
135°	77.1	77.1	74.1	75.1	75.1	74.1	75.1	74.1	76.1	77.1	77.1
137.5°	70.1	70.1	68.1	68.1	68.1	67.1	68.1	68.1	69.1	71.1	72.1
140°	64.0	64.0	63.0	63.0	62.0	63.0	63.0	63.0	64.0	65.0	65.0
142.5°	61.0	60.0	59.0	58.0	59.0	59.0	59.0	58.0	59.0	61.0	61.0
145°	56.0	56.0	55.0	55.0	55.0	56.0	55.0	55.0	56.0	56.0	57.0
147.5°	53.0	53.0	52.0	53.0	53.0	53.0	53.0	52.0	53.0	53.0	54.0
150°	52.0	51.0	50.0	51.0	51.0	50.0	50.0	50.0	50.0	51.0	51.0
152.5°	49.0	49.0	48.0	49.0	48.0	48.0	48.0	48.0	48.0	49.0	50.0
155°	47.0	47.0	46.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
157.5°	45.0	46.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	46.0	46.0
160°	44.0	44.0	44.0	44.0	43.0	43.0	43.0	44.0	44.0	44.0	45.0
162.5°	43.0	43.0	43.0	43.0	42.0	42.0	42.0	42.0	43.0	43.0	44.0
165°	43.0	42.0	42.0	42.0	41.0	41.0	41.0	41.0	42.0	43.0	42.0
167.5°	41.0	41.0	41.0	41.0	41.0	40.0	40.0	41.0	41.0	41.0	42.0
170°	41.0	41.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	41.0
172.5°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	40.0	40.0	41.0	41.0
175°	41.0	41.0	41.0	41.0	40.0	40.0	40.0	41.0	41.0	41.0	40.0
177.5°	41.0	41.0	41.0	41.0	40.0	41.0	41.0	41.0	41.0	41.0	41.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

(END OF REPORT)