

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: P833230

Luminaire Tested: **TTN-D1-750-U-MQ-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833230
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-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3731.9 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B1 - U3 - G1

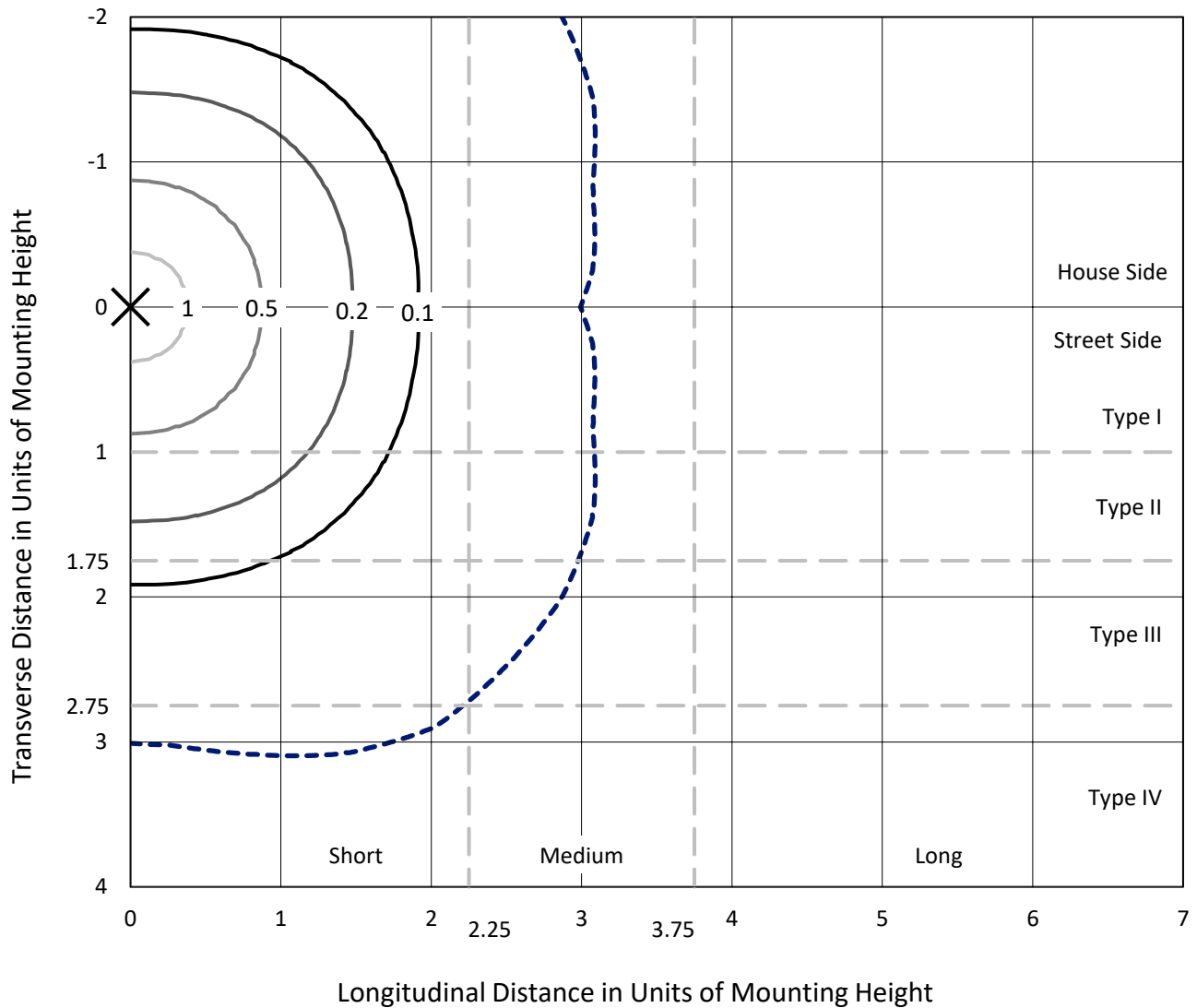
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

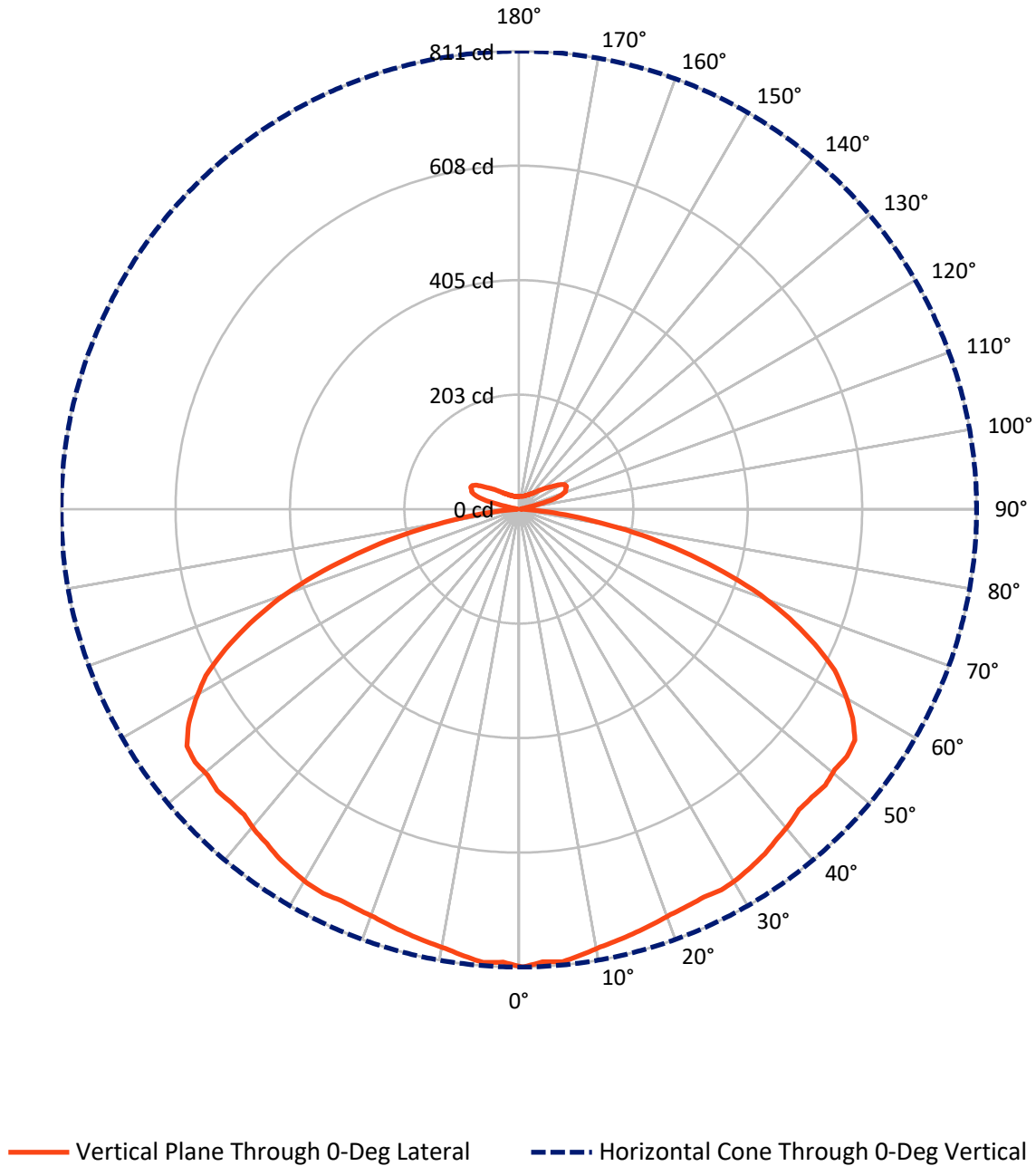
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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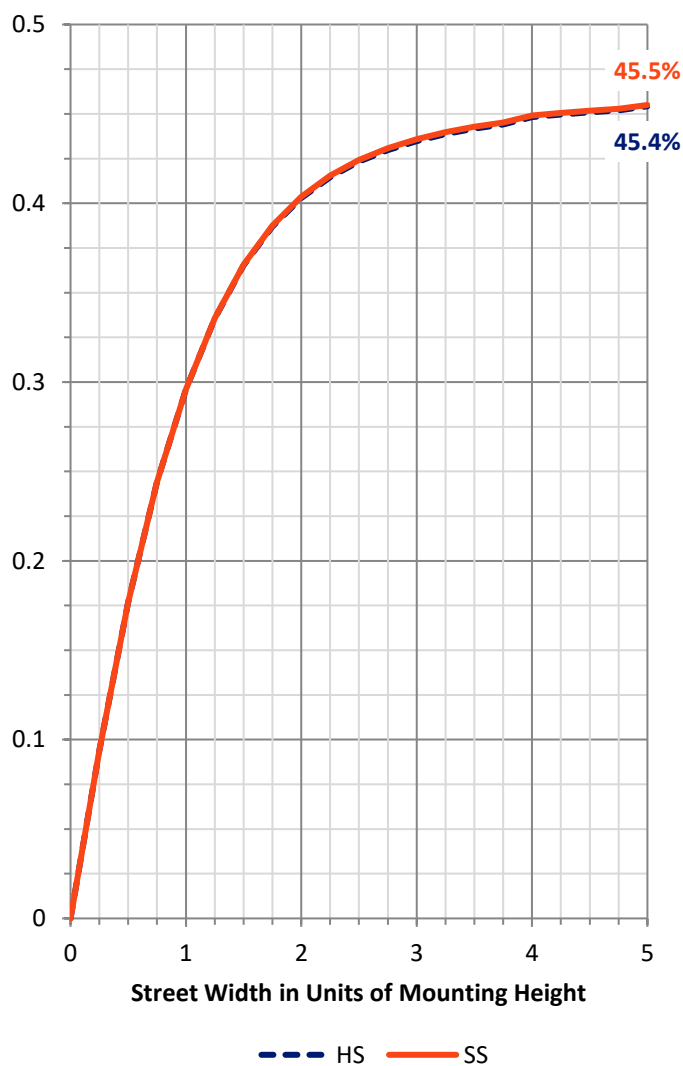
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.2	161.7	1865.9
	% Fixture	45.7	4.3	50.0
Street Side	Lumens	1704.2	161.7	1865.9
	% Fixture	45.7	4.3	50.0
Total	Lumens	3408.4	323.4	3731.9
	% Fixture	91.3	8.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	2.0
10°-20°	220.3	5.9
20°-30°	354.3	9.5
30°-40°	473.3	12.7
40°-50°	575.1	15.4
50°-60°	668.2	17.9
60°-70°	616.5	16.5
70°-80°	360.9	9.7
80°-90°	63.7	1.7
90°-100°	7.2	0.2
100°-110°	73.4	2.0
110°-120°	107.3	2.9
120°-130°	62.3	1.7
130°-140°	33.0	0.9
140°-150°	19.6	0.5
150°-160°	12.1	0.3
160°-170°	6.6	0.2
170°-180°	2.1	0.1
0°-90°	3408.4	91.3
0°-180°	3731.9	100.0

Coefficient of Utilization

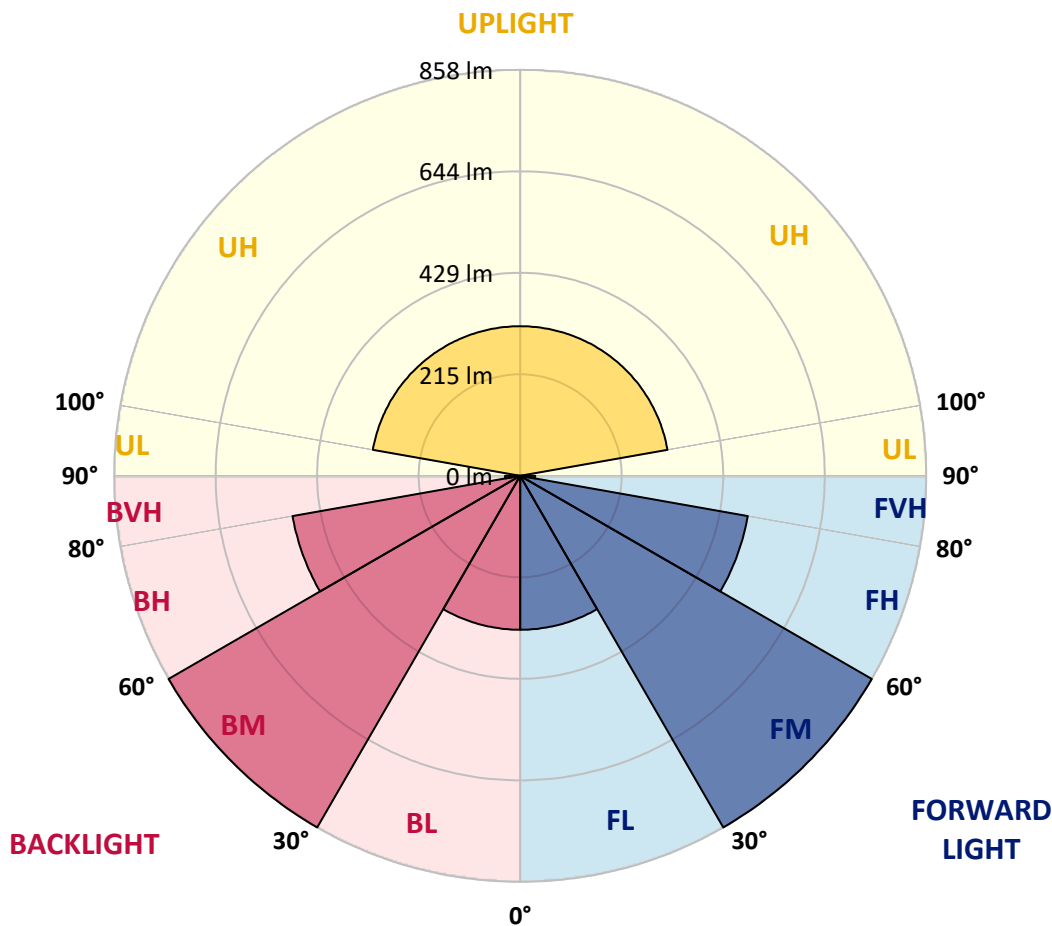


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.4	8.7			
FM (30°-60°)	858.3	23.0			
FH (60°-80°)	488.7	13.1			G0/660
FVH (80°-90°)	31.8	0.9			G1/100
BL (0°-30°)	325.4	8.7	B1/500		
BM (30°-60°)	858.3	23.0	B1/1000		
BH (60°-80°)	488.7	13.1	B1/500		G0/660
BVH (80°-90°)	31.8	0.9			G1/100
UL (90°-100°)	7.2	0.2		U1/10	
UH (100°-180°)	316.2	8.5		U3/500	

BUG Rating: B1-U3-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8
2.5°	802.5	805.2	802.5	802.5	802.5	802.5	802.5	802.5	802.5	802.5	805.2
5°	805.2	805.2	805.2	805.2	802.5	802.5	802.5	802.5	802.5	805.2	805.2
7.5°	796.9	796.9	796.9	796.9	796.9	794.2	796.9	796.9	796.9	796.9	796.9
10°	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6
12.5°	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	780.3	780.3
15°	777.6	777.6	777.6	777.6	780.3	780.3	777.6	777.6	777.6	777.6	777.6
17.5°	772.0	772.0	772.0	772.0	774.8	774.8	774.8	772.0	772.0	772.0	772.0
20°	766.5	766.5	766.5	766.5	769.3	769.3	769.3	769.3	769.3	766.5	766.5
22.5°	763.7	763.7	763.7	763.7	766.5	766.5	766.5	766.5	763.7	763.7	763.7
25°	760.9	763.7	763.7	763.7	766.5	769.3	769.3	766.5	763.7	760.9	760.9
27.5°	763.7	763.7	763.7	766.5	766.5	769.3	769.3	766.5	763.7	763.7	763.7
30°	760.9	760.9	760.9	763.7	766.5	769.3	766.5	766.5	763.7	760.9	760.9
32.5°	755.4	755.4	758.2	760.9	763.7	763.7	763.7	760.9	758.2	755.4	755.4
35°	749.9	749.9	749.9	752.6	758.2	758.2	758.2	755.4	752.6	749.9	747.1
37.5°	741.6	744.3	744.3	749.9	752.6	755.4	752.6	749.9	744.3	741.6	741.6
40°	736.0	736.0	738.8	744.3	749.9	749.9	747.1	744.3	738.8	736.0	736.0
42.5°	727.7	727.7	733.3	738.8	747.1	747.1	744.3	738.8	733.3	727.7	727.7
45°	727.7	727.7	733.3	744.3	749.9	755.4	749.9	744.3	733.3	727.7	725.0
47.5°	730.5	730.5	736.0	749.9	760.9	766.5	758.2	747.1	736.0	730.5	727.7
50°	725.0	727.7	738.8	752.6	766.5	769.3	766.5	749.9	738.8	725.0	725.0
52.5°	727.7	727.7	741.6	763.7	777.6	783.1	777.6	763.7	738.8	725.0	725.0
55°	722.2	719.4	738.8	763.7	785.9	796.9	785.9	763.7	736.0	719.4	716.7
57.5°	697.3	697.3	722.2	747.1	774.8	780.3	772.0	747.1	719.4	697.3	691.8
60°	664.1	666.9	691.8	719.4	744.3	747.1	741.6	719.4	691.8	666.9	658.6
62.5°	628.1	633.7	658.6	686.2	716.7	722.2	713.9	686.2	653.0	636.4	622.6
65°	575.6	583.9	611.5	642.0	675.2	672.4	672.4	639.2	614.3	586.6	572.8
67.5°	517.4	525.7	545.1	586.6	614.3	611.5	608.8	586.6	545.1	525.7	517.4
70°	453.8	459.3	478.7	520.2	545.1	547.9	539.6	517.4	478.7	464.9	451.0
72.5°	379.1	381.9	409.5	442.7	467.6	464.9	462.1	442.7	406.8	392.9	376.3
75°	298.8	301.6	326.5	357.0	376.3	373.6	370.8	357.0	326.5	309.9	296.1
77.5°	224.1	221.4	246.3	268.4	279.5	282.2	276.7	265.6	243.5	229.7	221.4
80°	146.7	143.9	166.0	182.6	190.9	190.9	188.2	179.9	163.3	152.2	146.7
82.5°	83.0	80.2	94.1	105.1	113.5	110.7	107.9	102.4	94.1	85.8	80.2
85°	30.4	30.4	38.7	44.3	49.8	49.8	47.0	44.3	36.0	33.2	30.4
87.5°	2.8	2.8	5.5	8.3	8.3	8.3	5.5	5.5	2.8	2.8	2.8
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	3.9	4.4	3.3	3.3	2.8	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.6	6.6	3.9	3.9	3.3	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	18.3	11.1	5.5	5.5	5.0	4.4
100°	7.2	7.7	7.7	13.8	29.3	39.3	28.2	14.4	10.5	7.7	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	60.3	50.9	48.1	33.2	26.6	25.5
105°	59.2	58.7	63.1	74.7	93.0	91.3	84.1	76.4	65.8	60.9	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	123.4	125.1	99.0	86.9	81.3	80.8
110°	88.0	88.0	91.3	99.6	117.9	142.8	141.6	122.3	107.3	100.2	99.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	90.2	90.7	95.2	107.9	127.8	138.9	133.9	126.2	119.5	114.0	112.9
115°	93.5	93.5	98.5	110.7	121.7	126.2	120.6	114.5	110.1	107.9	109.0
117.5°	92.4	94.1	95.2	101.8	109.0	112.3	109.6	101.3	97.9	96.8	95.2
120°	85.8	85.8	86.9	90.2	94.1	95.7	94.6	89.1	86.3	85.8	84.7
122.5°	76.4	76.9	76.4	78.0	80.8	82.4	81.3	76.9	75.8	75.8	74.7
125°	67.0	67.0	66.4	67.5	69.2	68.6	69.2	67.0	66.4	66.4	65.8
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	60.3	58.1	58.7	59.2	58.7
130°	53.7	53.7	52.6	52.6	52.6	51.5	52.6	51.5	52.0	52.6	53.1
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.9	45.4	46.5	47.6	47.6
135°	42.6	42.6	40.9	41.5	41.5	40.9	41.5	40.9	42.1	42.6	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.1	37.6	37.6	38.2	39.3	39.8
140°	35.4	35.4	34.9	34.9	34.3	34.9	34.9	34.9	35.4	36.0	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.8	33.8
145°	31.0	31.0	30.4	30.4	30.4	31.0	30.4	30.4	31.0	31.0	31.5
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3	29.9
150°	28.8	28.2	27.7	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	27.1	27.7
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.9
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	24.3
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	23.2	23.8	23.2
167.5°	22.7	22.7	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	23.2
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.1
177.5°	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)