

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: P832819

Luminaire Tested: **TTN-D0-735-U-RW-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P832819
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-D0-735-U-RW-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1423.9 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B1 - U3 - G1

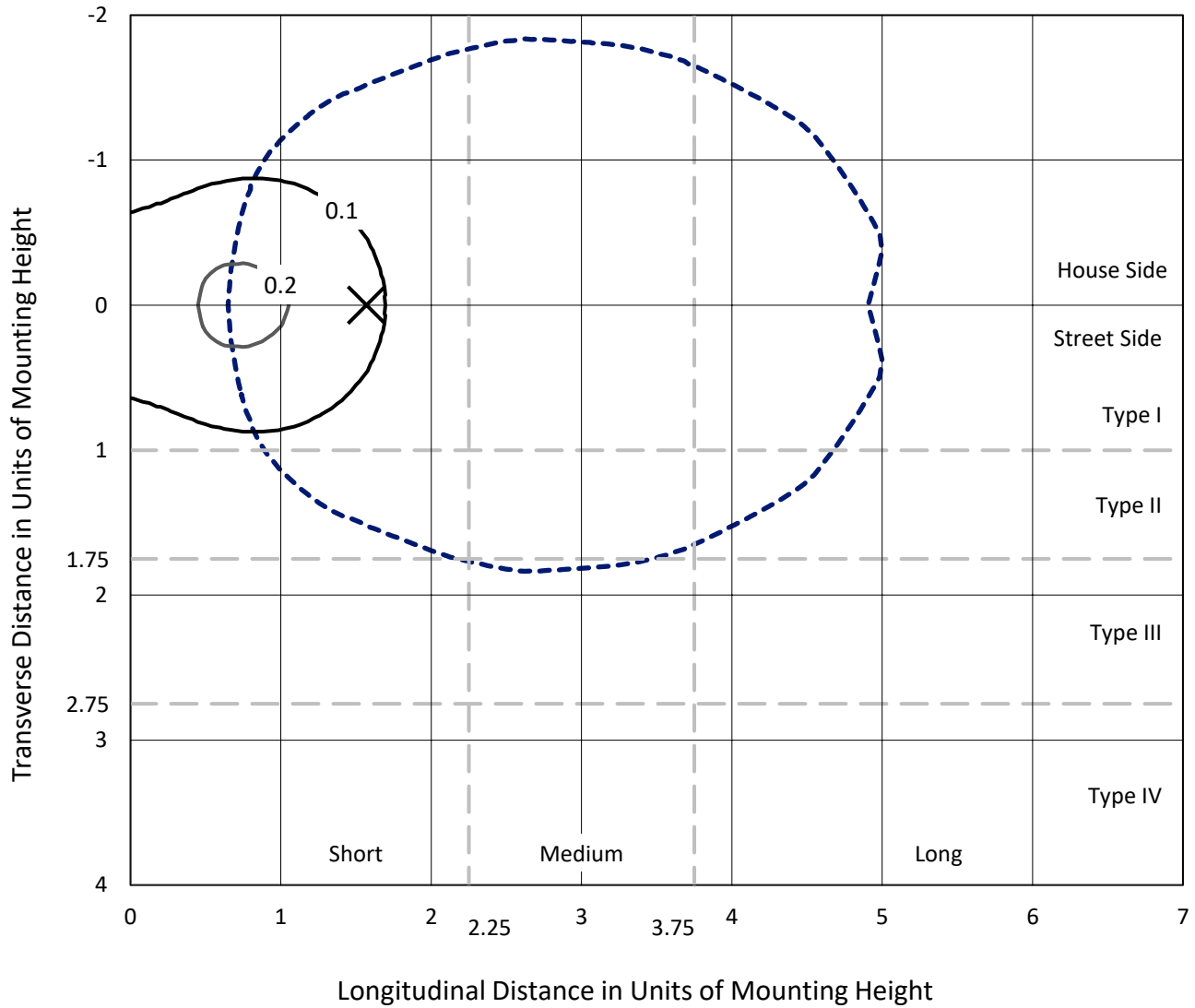
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

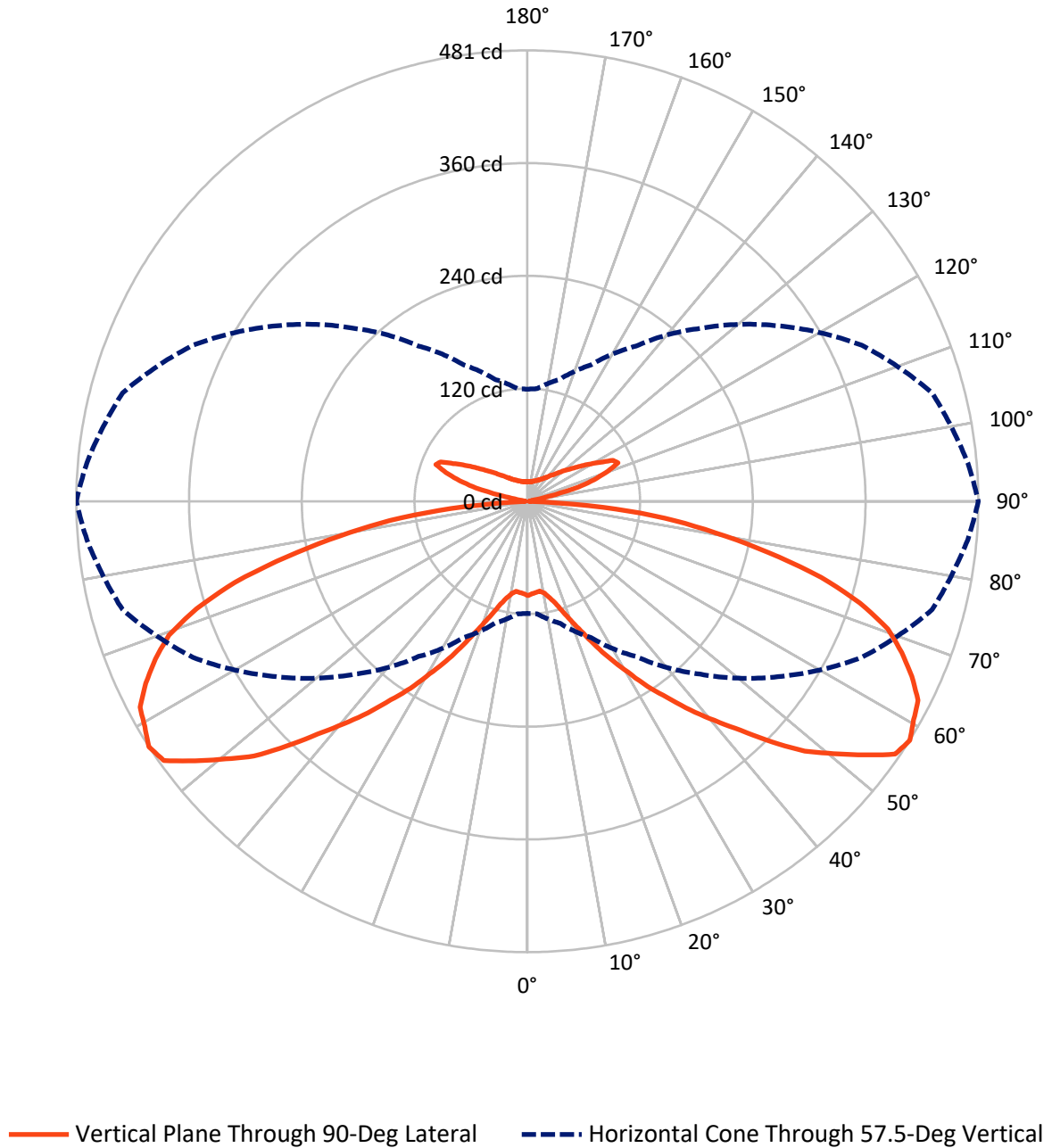
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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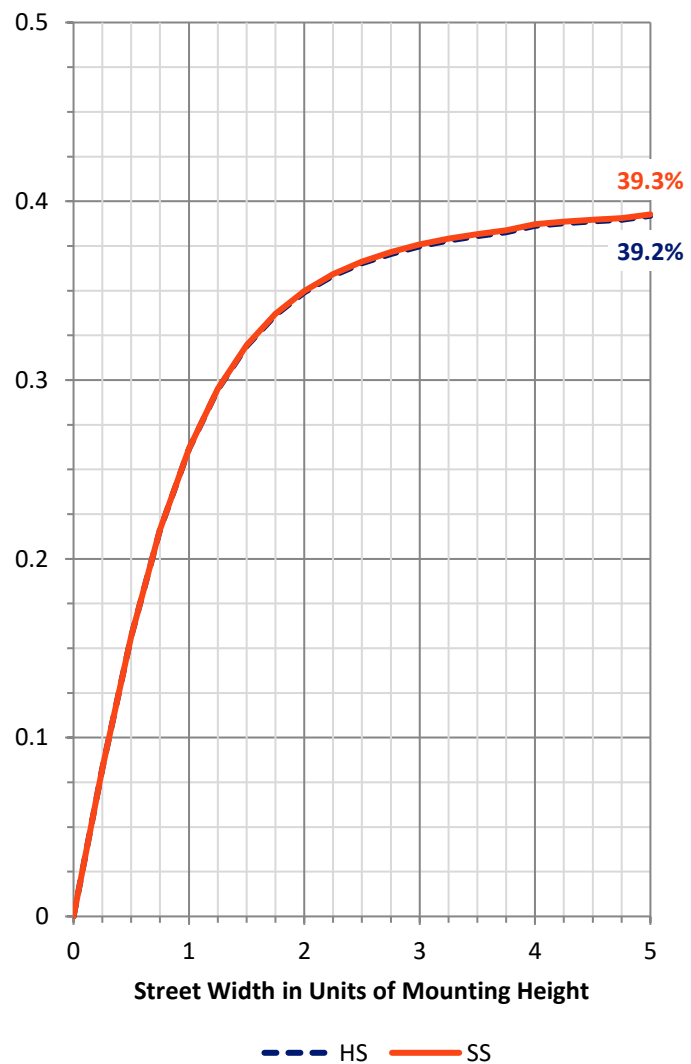
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	561.7	150.2	711.9
	% Fixture	39.4	10.6	50.0
Street Side	Lumens	561.7	150.2	711.9
	% Fixture	39.4	10.6	50.0
Total	Lumens	1123.4	300.5	1423.9
	% Fixture	78.9	21.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.7
10°-20°	30.1	2.1
20°-30°	62.8	4.4
30°-40°	112.7	7.9
40°-50°	180.1	12.6
50°-60°	246.5	17.3
60°-70°	254.3	17.9
70°-80°	180.8	12.7
80°-90°	46.7	3.3
90°-100°	6.7	0.5
100°-110°	68.2	4.8
110°-120°	99.6	7.0
120°-130°	57.8	4.1
130°-140°	30.6	2.2
140°-150°	18.2	1.3
150°-160°	11.2	0.8
160°-170°	6.1	0.4
170°-180°	2.0	0.1
0°-90°	1123.4	78.9
0°-180°	1423.9	100.0



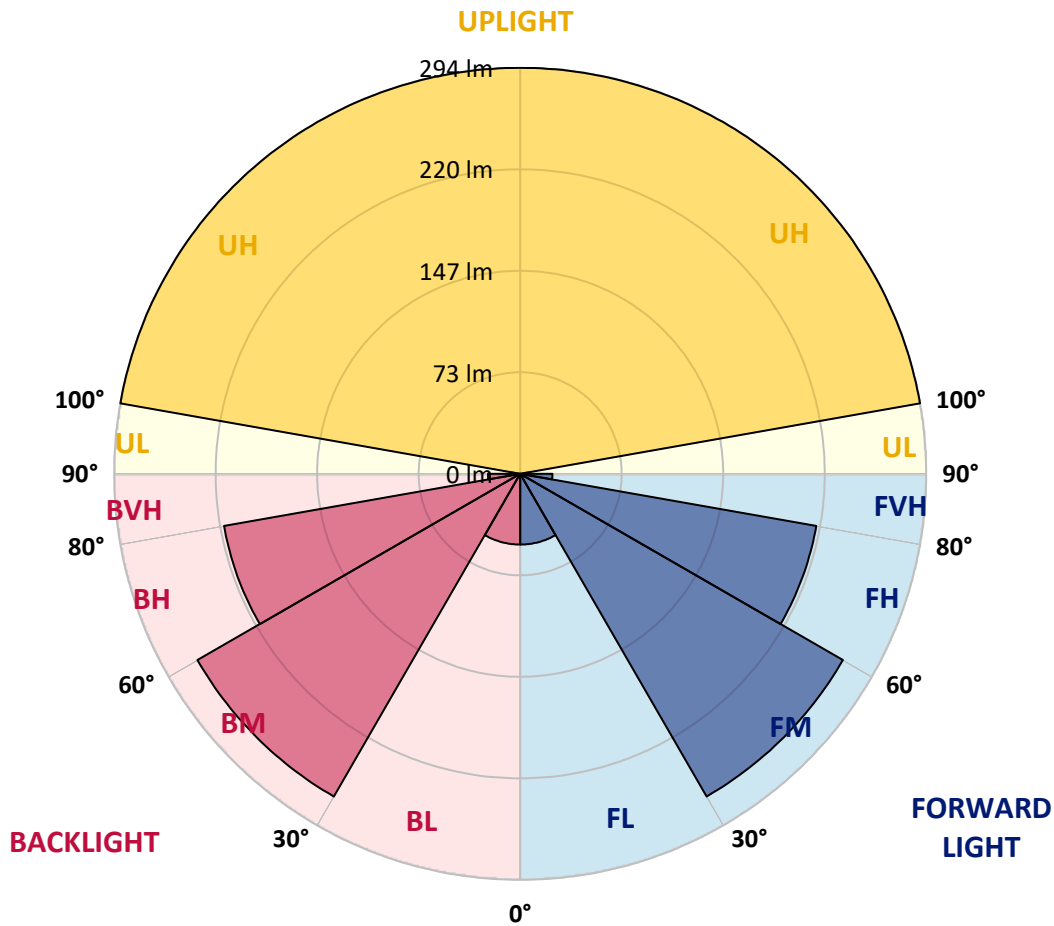
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	51.2	3.6			
FM (30°-60°)	269.6	18.9			
FH (60°-80°)	217.5	15.3			G0/660
FVH (80°-90°)	23.3	1.6			G1/100
BL (0°-30°)	51.2	3.6	B0/110		
BM (30°-60°)	269.6	18.9	B1/1000		
BH (60°-80°)	217.5	15.3	B1/500		G1/500
BVH (80°-90°)	23.3	1.6			G1/100
UL (90°-100°)	6.7	0.5		U1/10	
UH (100°-180°)	293.8	20.6		U3/500	

BUG Rating: B1-U3-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
2.5°	100.5	100.5	99.5	99.5	99.5	98.6	98.6	98.6	98.6	97.6	98.6
5°	100.5	100.5	100.5	100.5	99.5	98.6	98.6	98.6	97.6	97.6	97.6
7.5°	99.5	99.5	99.5	99.5	98.6	97.6	97.6	97.6	96.7	96.7	96.7
10°	98.6	99.5	98.6	98.6	97.6	97.6	98.6	98.6	99.5	99.5	99.5
12.5°	97.6	97.6	97.6	98.6	98.6	99.5	101.4	103.3	104.2	105.2	105.2
15°	97.6	97.6	98.6	99.5	101.4	103.3	106.1	109.0	110.9	112.8	112.8
17.5°	97.6	97.6	98.6	101.4	104.2	108.0	112.8	116.6	120.4	123.2	124.1
20°	97.6	97.6	99.5	103.3	109.0	114.7	121.3	127.0	132.7	137.4	137.4
22.5°	98.6	99.5	101.4	106.1	114.7	123.2	131.7	140.3	146.9	152.6	152.6
25°	100.5	100.5	103.3	110.9	121.3	132.7	145.0	155.4	164.0	171.5	171.5
27.5°	101.4	102.4	106.1	115.6	128.9	143.1	160.2	172.5	183.9	190.5	191.4
30°	103.3	104.2	109.9	119.4	135.5	153.5	173.4	190.5	202.8	209.4	211.3
32.5°	104.2	105.2	112.8	124.1	142.2	163.0	185.8	207.5	224.6	232.2	235.0
35°	107.1	108.0	115.6	128.9	149.7	173.4	200.0	225.6	245.5	254.9	256.8
37.5°	109.9	110.9	118.5	133.6	157.3	184.8	215.1	244.5	267.3	278.6	282.4
40°	111.8	112.8	121.3	139.3	165.8	197.1	232.2	264.4	290.0	304.2	307.1
42.5°	114.7	115.6	125.1	144.1	173.4	209.4	250.2	286.2	313.7	329.8	333.6
45°	117.5	118.5	128.9	149.7	182.0	222.7	268.2	311.8	343.1	362.0	365.8
47.5°	120.4	121.3	132.7	155.4	190.5	236.0	287.2	334.5	372.4	390.5	398.0
50°	121.3	123.2	134.6	159.2	196.2	247.4	303.3	357.3	397.1	420.8	422.7
52.5°	122.3	124.1	136.5	162.1	200.9	255.9	316.5	376.2	422.7	451.1	449.2
55°	123.2	123.2	136.5	162.1	202.8	261.6	326.0	388.6	439.7	462.5	475.7
57.5°	119.4	120.4	134.6	160.2	201.9	260.6	326.0	393.3	446.4	471.0	480.5
60°	114.7	116.6	129.8	155.4	198.1	257.8	324.1	391.4	449.2	475.7	472.9
62.5°	108.0	111.8	123.2	148.8	192.4	251.1	321.3	386.7	442.6	470.1	467.2
65°	100.5	104.2	114.7	142.2	180.1	235.0	306.1	377.2	424.6	455.8	450.2
67.5°	92.9	95.7	106.1	130.8	165.8	218.0	286.2	356.3	399.0	433.1	430.3
70°	84.3	85.3	95.7	117.5	151.6	200.9	267.3	327.0	376.2	401.8	407.5
72.5°	73.9	73.9	84.3	103.3	134.6	178.2	241.7	293.8	340.2	362.0	370.6
75°	60.7	61.6	70.1	87.2	112.8	152.6	205.7	258.7	297.6	320.3	323.2
77.5°	47.4	48.3	55.0	69.2	91.0	123.2	169.6	211.3	248.3	268.2	262.5
80°	34.1	35.1	39.8	50.2	67.3	91.9	130.8	167.7	194.3	210.4	202.8
82.5°	20.8	21.8	24.6	31.3	42.6	59.7	89.1	116.6	137.4	150.7	147.8
85°	10.4	10.4	12.3	14.2	18.0	26.5	42.6	58.8	74.9	84.3	81.5
87.5°	1.9	2.8	2.8	2.8	2.8	1.9	2.8	2.8	2.8	4.7	1.9
90°	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6
92.5°	2.6	2.6	2.6	3.6	4.1	3.6	4.1	3.1	3.1	2.6	2.6
95°	3.1	3.1	3.6	4.6	5.7	6.2	6.2	3.6	3.6	3.1	3.1
97.5°	4.1	4.6	4.6	5.7	9.3	17.0	10.3	5.1	5.1	4.6	4.1
100°	6.7	7.2	7.2	12.9	27.2	36.5	26.2	13.4	9.8	7.2	7.2
102.5°	21.6	22.6	27.8	41.6	61.7	56.0	47.3	44.7	30.8	24.7	23.6
105°	55.0	54.5	58.6	69.4	86.4	84.8	78.1	70.9	61.2	56.5	56.5
107.5°	72.5	72.5	76.1	85.3	98.2	114.6	116.2	92.0	80.7	75.6	75.0
110°	81.7	81.7	84.8	92.5	109.5	132.6	131.6	113.6	99.7	93.0	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.8	84.3	88.4	100.2	118.7	129.0	124.4	117.2	111.0	105.9	104.9
115°	86.9	86.9	91.5	102.8	113.1	117.2	112.1	106.4	102.3	100.2	101.3
117.5°	85.8	87.4	88.4	94.6	101.3	104.4	101.8	94.1	91.0	90.0	88.4
120°	79.7	79.7	80.7	83.8	87.4	88.9	87.9	82.8	80.2	79.7	78.6
122.5°	70.9	71.5	70.9	72.5	75.0	76.6	75.6	71.5	70.4	70.4	69.4
125°	62.2	62.2	61.7	62.7	64.3	63.7	64.3	62.2	61.7	61.7	61.2
127.5°	56.0	55.5	54.5	55.0	55.5	55.5	56.0	54.0	54.5	55.0	54.5
130°	49.9	49.9	48.8	48.8	48.8	47.8	48.8	47.8	48.3	48.8	49.3
132.5°	44.2	44.2	42.7	42.2	42.2	42.2	42.7	42.2	43.2	44.2	44.2
135°	39.6	39.6	38.0	38.6	38.6	38.0	38.6	38.0	39.1	39.6	39.6
137.5°	36.0	36.0	35.0	35.0	35.0	34.4	35.0	35.0	35.5	36.5	37.0
140°	32.9	32.9	32.4	32.4	31.9	32.4	32.4	32.4	32.9	33.4	33.4
142.5°	31.4	30.8	30.3	29.8	30.3	30.3	30.3	29.8	30.3	31.4	31.4
145°	28.8	28.8	28.3	28.3	28.3	28.8	28.3	28.3	28.8	28.8	29.3
147.5°	27.2	27.2	26.7	27.2	27.2	27.2	27.2	26.7	27.2	27.2	27.8
150°	26.7	26.2	25.7	26.2	26.2	25.7	25.7	25.7	25.7	26.2	26.2
152.5°	25.2	25.2	24.7	25.2	24.7	24.7	24.7	24.7	24.7	25.2	25.7
155°	24.2	24.2	23.6	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
157.5°	23.1	23.6	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.6	23.6
160°	22.6	22.6	22.6	22.6	22.1	22.1	22.1	22.6	22.6	22.6	23.1
162.5°	22.1	22.1	22.1	22.1	21.6	21.6	21.6	21.6	22.1	22.1	22.6
165°	22.1	21.6	21.6	21.6	21.1	21.1	21.1	21.1	21.6	22.1	21.6
167.5°	21.1	21.1	21.1	21.1	21.1	20.6	20.6	21.1	21.1	21.1	21.6
170°	21.1	21.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.1
172.5°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	20.6	20.6	21.1	21.1
175°	21.1	21.1	21.1	21.1	20.6	20.6	20.6	21.1	21.1	21.1	20.6
177.5°	21.1	21.1	21.1	21.1	20.6	21.1	21.1	21.1	21.1	21.1	21.1
180°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1

(END OF REPORT)