

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: P833320

Luminaire Tested: **TTN-D1-830-U-MQ-CG-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833320
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-D1-830-U-MQ-CG-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349.9 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 - U3 - G1

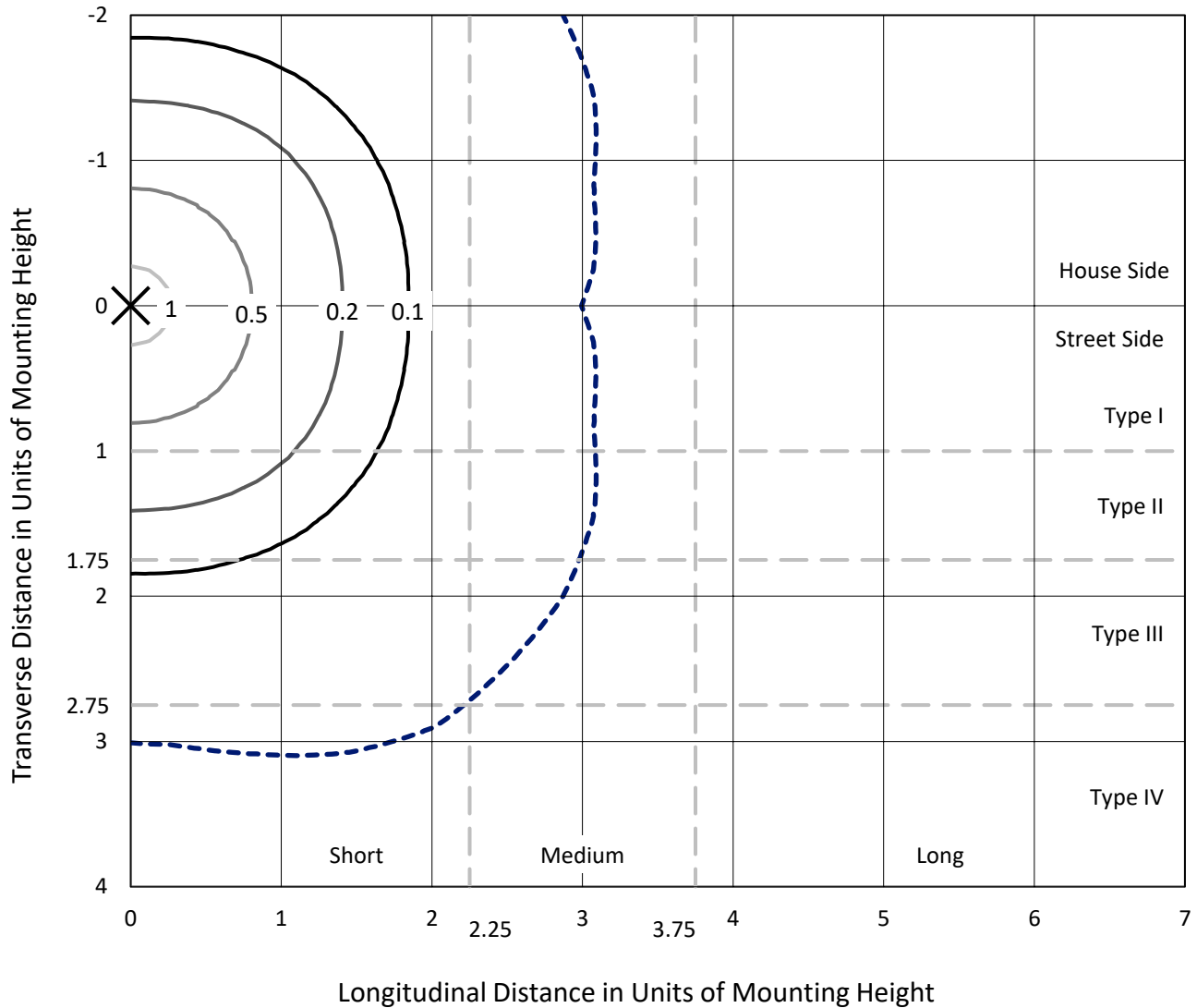
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

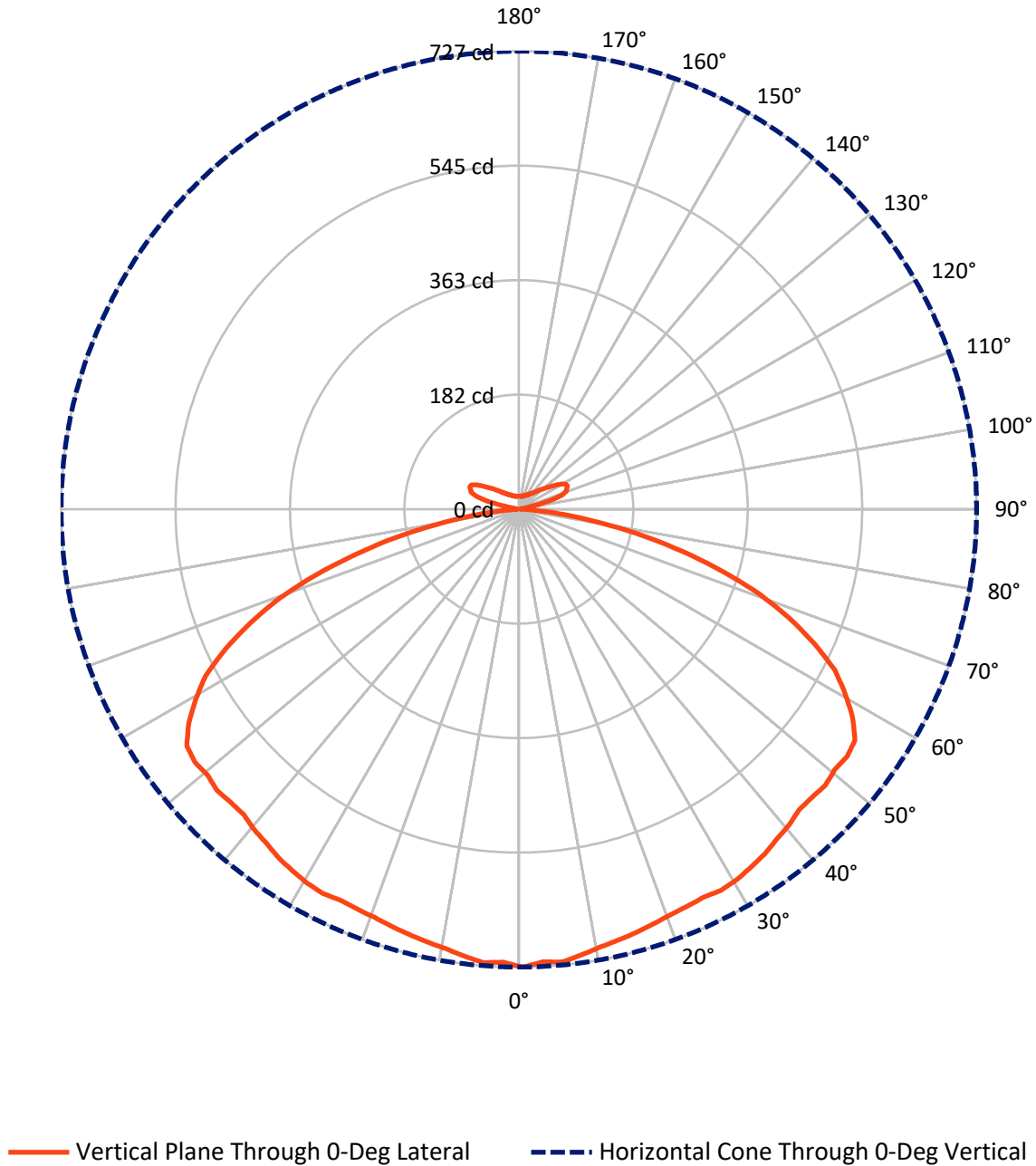
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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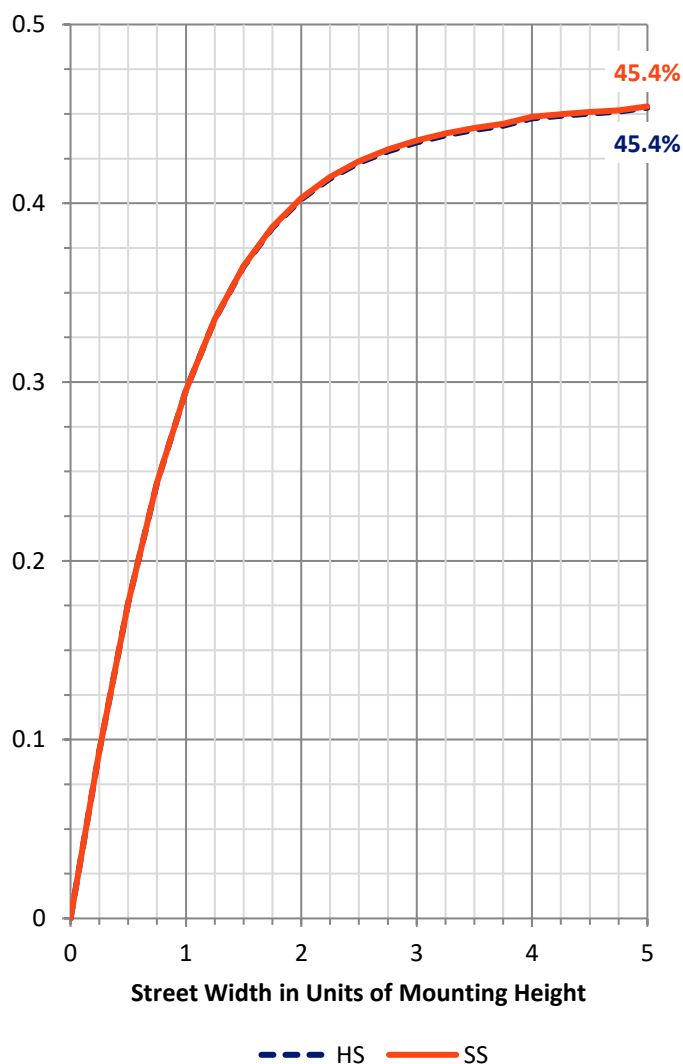
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1527.2	147.7	1674.9
	% Fixture	45.6	4.4	50.0
Street Side	Lumens	1527.2	147.7	1674.9
	% Fixture	45.6	4.4	50.0
Total	Lumens	3054.4	295.5	3349.9
	% Fixture	91.2	8.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	2.0
10°-20°	197.4	5.9
20°-30°	317.5	9.5
30°-40°	424.2	12.7
40°-50°	515.4	15.4
50°-60°	598.8	17.9
60°-70°	552.5	16.5
70°-80°	323.4	9.7
80°-90°	57.1	1.7
90°-100°	6.6	0.2
100°-110°	67.0	2.0
110°-120°	98.0	2.9
120°-130°	56.9	1.7
130°-140°	30.1	0.9
140°-150°	17.9	0.5
150°-160°	11.0	0.3
160°-170°	6.0	0.2
170°-180°	2.0	0.1
0°-90°	3054.4	91.2
0°-180°	3349.9	100.0

Coefficient of Utilization

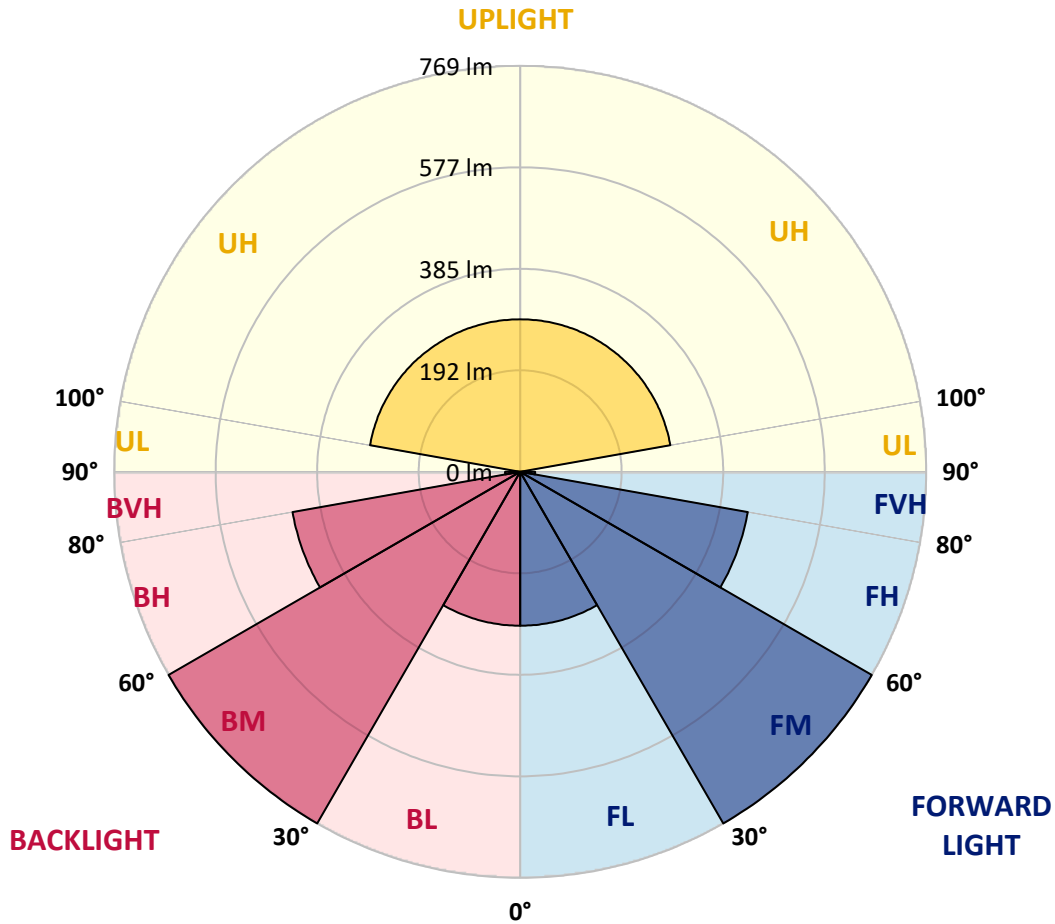


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.6	8.7			
FM (30°-60°)	769.2	23.0			
FH (60°-80°)	437.9	13.1			G0/660
FVH (80°-90°)	28.5	0.9			G1/100
BL (0°-30°)	291.6	8.7	B1/500		
BM (30°-60°)	769.2	23.0	B1/1000		
BH (60°-80°)	437.9	13.1	B1/500		G0/660
BVH (80°-90°)	28.5	0.9			G1/100
UL (90°-100°)	6.6	0.2		U1/10	
UH (100°-180°)	288.9	8.6		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°	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5	726.5
2.5°	719.1	721.6	719.1	719.1	719.1	719.1	719.1	719.1	719.1	719.1	721.6
5°	721.6	721.6	721.6	721.6	719.1	719.1	719.1	719.1	719.1	721.6	721.6
7.5°	714.1	714.1	714.1	714.1	714.1	711.7	714.1	714.1	714.1	714.1	714.1
10°	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7	706.7
12.5°	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	699.3	699.3
15°	696.8	696.8	696.8	696.8	699.3	699.3	696.8	696.8	696.8	696.8	696.8
17.5°	691.8	691.8	691.8	691.8	694.3	694.3	694.3	691.8	691.8	691.8	691.8
20°	686.9	686.9	686.9	686.9	689.3	689.3	689.3	689.3	689.3	686.9	686.9
22.5°	684.4	684.4	684.4	684.4	686.9	686.9	686.9	686.9	684.4	684.4	684.4
25°	681.9	684.4	684.4	684.4	686.9	689.3	689.3	686.9	684.4	681.9	681.9
27.5°	684.4	684.4	684.4	686.9	686.9	689.3	689.3	686.9	684.4	684.4	684.4
30°	681.9	681.9	681.9	684.4	686.9	689.3	686.9	686.9	684.4	681.9	681.9
32.5°	676.9	676.9	679.4	681.9	684.4	684.4	684.4	681.9	679.4	676.9	676.9
35°	672.0	672.0	672.0	674.5	679.4	679.4	679.4	676.9	674.5	672.0	669.5
37.5°	664.5	667.0	667.0	672.0	674.5	676.9	674.5	672.0	667.0	664.5	664.5
40°	659.6	659.6	662.1	667.0	672.0	672.0	669.5	667.0	662.1	659.6	659.6
42.5°	652.2	652.2	657.1	662.1	669.5	669.5	667.0	662.1	657.1	652.2	652.2
45°	652.2	652.2	657.1	667.0	672.0	676.9	672.0	667.0	657.1	652.2	649.7
47.5°	654.6	654.6	659.6	672.0	681.9	686.9	679.4	669.5	659.6	654.6	652.2
50°	649.7	652.2	662.1	674.5	686.9	689.3	686.9	672.0	662.1	649.7	649.7
52.5°	652.2	652.2	664.5	684.4	696.8	701.7	696.8	684.4	662.1	649.7	649.7
55°	647.2	644.7	662.1	684.4	704.2	714.1	704.2	684.4	659.6	644.7	642.2
57.5°	624.9	624.9	647.2	669.5	694.3	699.3	691.8	669.5	644.7	624.9	619.9
60°	595.1	597.6	619.9	644.7	667.0	669.5	664.5	644.7	619.9	597.6	590.2
62.5°	562.9	567.8	590.2	615.0	642.2	647.2	639.8	615.0	585.2	570.3	557.9
65°	515.8	523.2	548.0	575.3	605.0	602.6	602.6	572.8	550.5	525.7	513.3
67.5°	463.7	471.1	488.5	525.7	550.5	548.0	545.5	525.7	488.5	471.1	463.7
70°	406.7	411.6	429.0	466.2	488.5	491.0	483.5	463.7	429.0	416.6	404.2
72.5°	339.7	342.2	367.0	396.7	419.1	416.6	414.1	396.7	364.5	352.1	337.2
75°	267.8	270.3	292.6	319.9	337.2	334.8	332.3	319.9	292.6	277.7	265.3
77.5°	200.9	198.4	220.7	240.5	250.4	252.9	248.0	238.0	218.2	205.8	198.4
80°	131.4	128.9	148.8	163.7	171.1	171.1	168.6	161.2	146.3	136.4	131.4
82.5°	74.4	71.9	84.3	94.2	101.7	99.2	96.7	91.7	84.3	76.9	71.9
85°	27.3	27.3	34.7	39.7	44.6	44.6	42.2	39.7	32.2	29.8	27.3
87.5°	2.5	2.5	5.0	7.4	7.4	7.4	5.0	5.0	2.5	2.5	2.5
90°	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5
92.5°	2.5	2.5	2.5	3.5	4.0	3.5	4.0	3.0	3.0	2.5	2.5
95°	3.0	3.0	3.5	4.5	5.6	6.1	6.1	3.5	3.5	3.0	3.0
97.5°	4.0	4.5	4.5	5.6	9.1	16.7	10.1	5.1	5.1	4.5	4.0
100°	6.6	7.1	7.1	12.6	26.8	35.9	25.8	13.1	9.6	7.1	7.1
102.5°	21.2	22.2	27.3	40.9	60.7	55.1	46.5	44.0	30.3	24.3	23.3
105°	54.1	53.6	57.6	68.2	84.9	83.4	76.8	69.8	60.2	55.6	55.6
107.5°	71.3	71.3	74.8	83.9	96.6	112.7	114.2	90.5	79.4	74.3	73.8
110°	80.4	80.4	83.4	91.0	107.7	130.4	129.4	111.7	98.1	91.5	90.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	82.4	82.9	86.9	98.6	116.8	126.9	122.3	115.3	109.2	104.1	103.1
115°	85.4	85.4	90.0	101.1	111.2	115.3	110.2	104.6	100.6	98.6	99.6
117.5°	84.4	85.9	86.9	93.0	99.6	102.6	100.1	92.5	89.5	88.5	86.9
120°	78.4	78.4	79.4	82.4	85.9	87.5	86.4	81.4	78.9	78.4	77.3
122.5°	69.8	70.3	69.8	71.3	73.8	75.3	74.3	70.3	69.3	69.3	68.2
125°	61.2	61.2	60.7	61.7	63.2	62.7	63.2	61.2	60.7	60.7	60.2
127.5°	55.1	54.6	53.6	54.1	54.6	54.6	55.1	53.1	53.6	54.1	53.6
130°	49.0	49.0	48.0	48.0	48.0	47.0	48.0	47.0	47.5	48.0	48.5
132.5°	43.5	43.5	42.0	41.5	41.5	41.5	42.0	41.5	42.5	43.5	43.5
135°	38.9	38.9	37.4	37.9	37.9	37.4	37.9	37.4	38.4	38.9	38.9
137.5°	35.4	35.4	34.4	34.4	34.4	33.9	34.4	34.4	34.9	35.9	36.4
140°	32.4	32.4	31.8	31.8	31.3	31.8	31.8	31.8	32.4	32.9	32.9
142.5°	30.8	30.3	29.8	29.3	29.8	29.8	29.8	29.3	29.8	30.8	30.8
145°	28.3	28.3	27.8	27.8	27.8	28.3	27.8	27.8	28.3	28.3	28.8
147.5°	26.8	26.8	26.3	26.8	26.8	26.8	26.8	26.3	26.8	26.8	27.3
150°	26.3	25.8	25.3	25.8	25.8	25.3	25.3	25.3	25.3	25.8	25.8
152.5°	24.8	24.8	24.3	24.8	24.3	24.3	24.3	24.3	24.3	24.8	25.3
155°	23.8	23.8	23.3	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
157.5°	22.7	23.3	22.7	22.7	22.7	22.7	22.7	22.7	22.7	23.3	23.3
160°	22.2	22.2	22.2	22.2	21.7	21.7	21.7	22.2	22.2	22.2	22.7
162.5°	21.7	21.7	21.7	21.7	21.2	21.2	21.2	21.2	21.7	21.7	22.2
165°	21.7	21.2	21.2	21.2	20.7	20.7	20.7	20.7	21.2	21.7	21.2
167.5°	20.7	20.7	20.7	20.7	20.7	20.2	20.2	20.7	20.7	20.7	21.2
170°	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.7
172.5°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.2	20.2	20.7	20.7
175°	20.7	20.7	20.7	20.7	20.2	20.2	20.2	20.7	20.7	20.7	20.2
177.5°	20.7	20.7	20.7	20.7	20.2	20.7	20.7	20.7	20.7	20.7	20.7
180°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7

(END OF REPORT)