

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: P832882

Luminaire Tested: **TTN-D0-750-U-WQ-CG-UPL1**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832882  
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-D0-750-U-WQ-CG-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

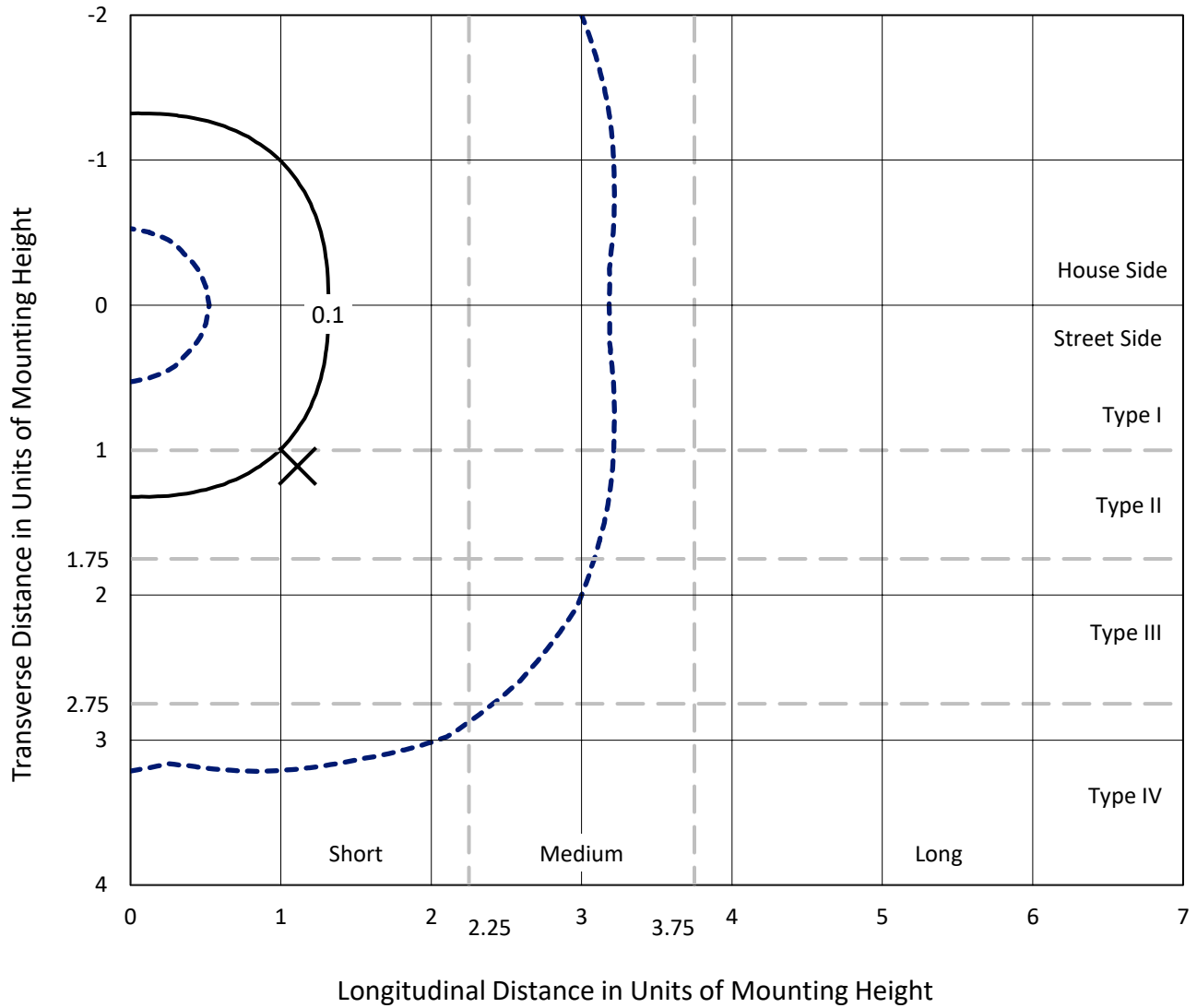
Lumens per Lamp: N/A  
Luminaire Lumens: 1477.7 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U3 - G1  
  
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): 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

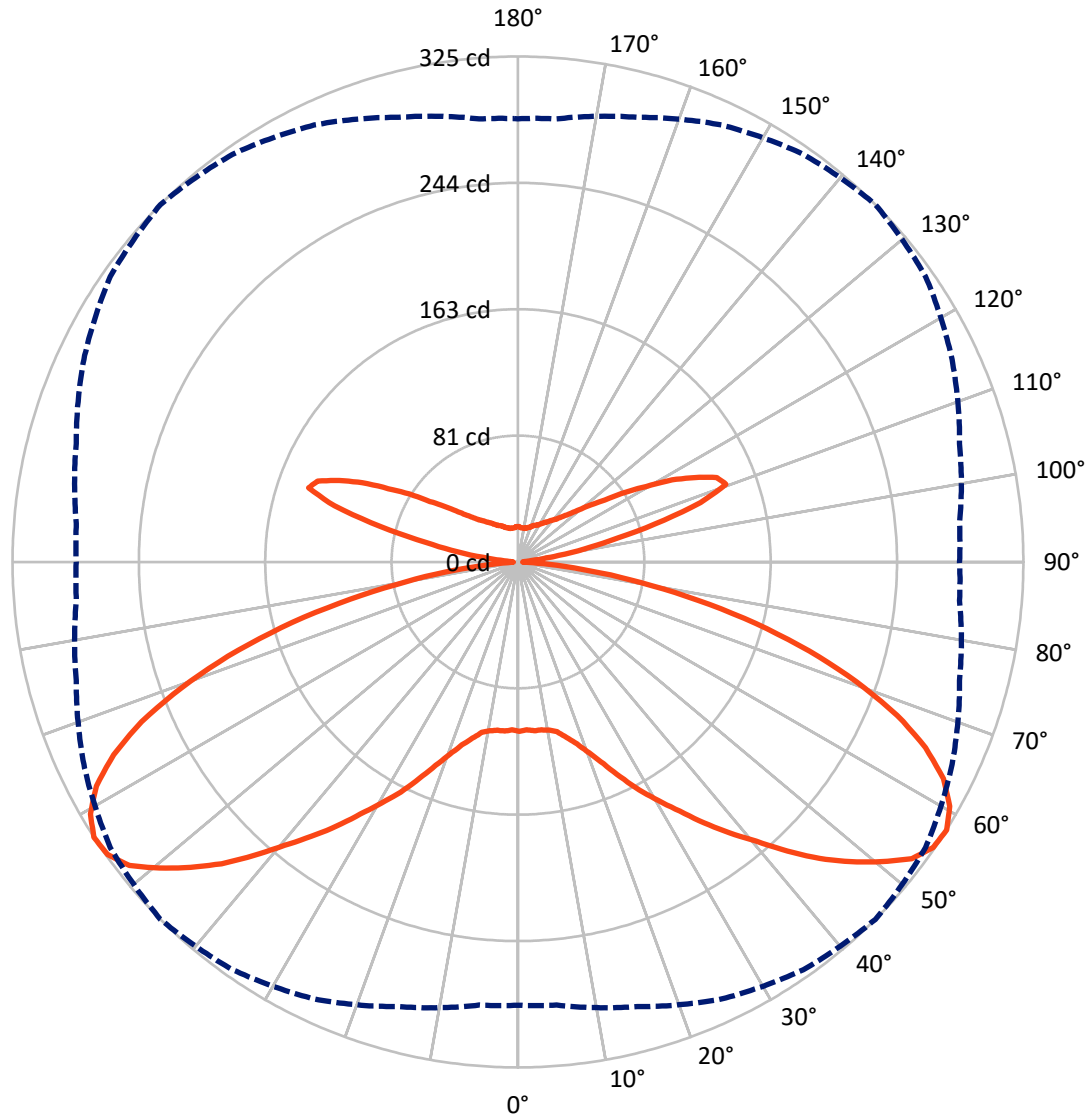
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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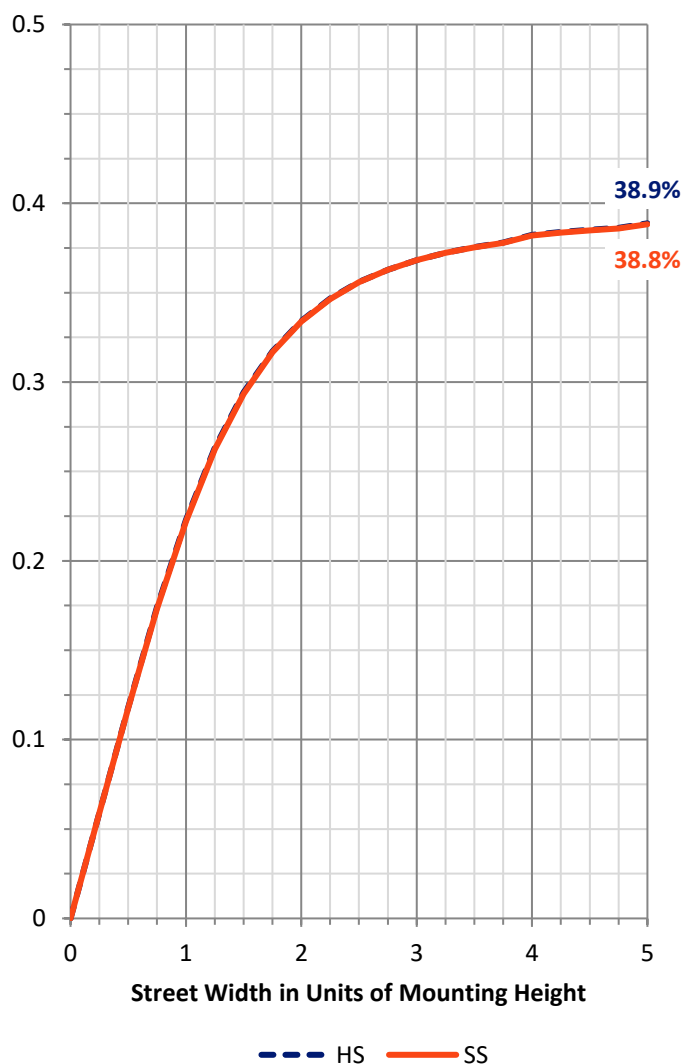
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	577.1	161.7	738.9
	% Fixture	39.1	10.9	50.0
<b>Street Side</b>	Lumens	577.1	161.7	738.9
	% Fixture	39.1	10.9	50.0
<b>Total</b>	Lumens	1154.3	323.4	1477.7
	% Fixture	78.1	21.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.4	0.7
10°-20°	33.6	2.3
20°-30°	70.7	4.8
30°-40°	127.5	8.6
40°-50°	202.6	13.7
50°-60°	270.4	18.3
60°-70°	261.2	17.7
70°-80°	151.4	10.2
80°-90°	26.5	1.8
90°-100°	7.2	0.5
100°-110°	73.4	5.0
110°-120°	107.3	7.3
120°-130°	62.3	4.2
130°-140°	33.0	2.2
140°-150°	19.6	1.3
150°-160°	12.1	0.8
160°-170°	6.6	0.4
170°-180°	2.1	0.1
0°-90°	1154.3	78.1
0°-180°	1477.7	100.0

**Coefficient of Utilization**



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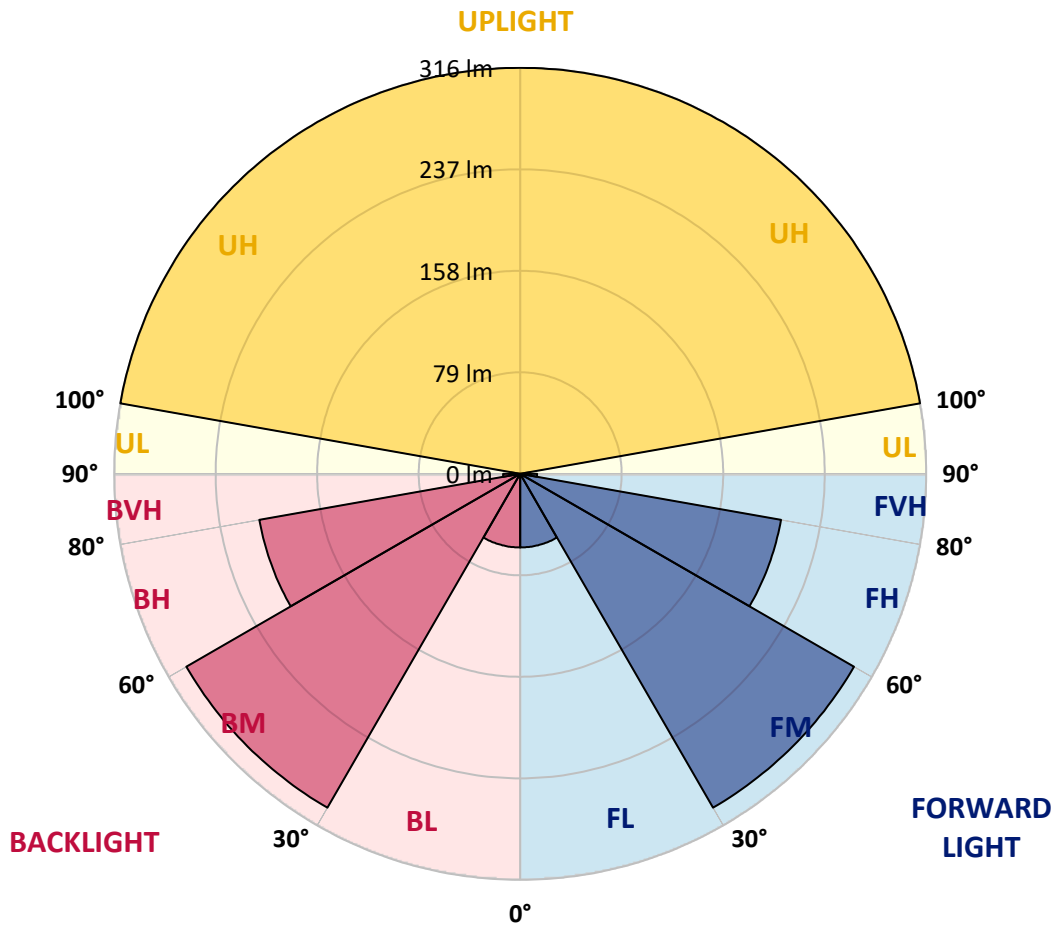
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	57.4	3.9			
FM (30°-60°)	300.2	20.3			
FH (60°-80°)	206.3	14.0			G0/660
FVH (80°-90°)	13.3	0.9			G1/100
BL (0°-30°)	57.4	3.9	B0/110		
BM (30°-60°)	300.2	20.3	B1/1000		
BH (60°-80°)	206.3	14.0	B1/500		G0/660
BVH (80°-90°)	13.3	0.9			G1/100
UL (90°-100°)	7.2	0.5		U1/10	
UH (100°-180°)	316.2	21.4		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°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
2.5°	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
5°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
7.5°	108.0	108.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	108.0	108.0
10°	109.0	109.0	109.0	110.0	110.0	110.0	110.0	110.0	109.0	109.0	109.0
12.5°	111.0	111.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	111.0	111.0
15°	116.0	116.0	116.0	117.0	117.0	117.0	117.0	117.0	116.0	116.0	116.0
17.5°	121.0	121.0	122.0	122.0	123.0	123.0	123.0	122.0	122.0	122.0	122.0
20°	128.0	128.0	129.0	129.0	130.0	131.0	131.0	130.0	129.0	129.0	129.0
22.5°	137.0	138.0	138.0	138.0	139.0	141.0	140.0	139.0	138.0	138.0	138.0
25°	148.0	149.0	150.0	150.0	151.0	153.0	153.0	150.0	150.0	150.0	150.0
27.5°	161.0	162.0	163.0	163.0	164.0	166.0	165.0	163.0	163.0	162.0	162.0
30°	173.0	174.0	175.0	176.0	177.0	178.0	178.0	176.0	175.0	174.0	173.0
32.5°	185.0	185.0	187.0	189.0	191.0	191.0	192.0	189.0	187.0	185.0	184.0
35°	197.0	198.0	199.0	202.0	205.0	206.0	205.0	202.0	199.0	197.0	197.0
37.5°	210.0	211.0	212.0	216.0	219.0	221.0	219.0	216.0	212.0	210.0	209.0
40°	224.0	225.0	226.0	231.0	234.0	236.0	233.0	230.0	226.0	224.0	223.0
42.5°	237.0	239.0	241.0	247.0	252.0	254.0	251.0	246.0	242.0	237.0	236.0
45°	253.0	255.0	258.0	264.0	269.0	272.0	268.0	263.0	257.0	253.0	252.0
47.5°	266.0	268.0	271.0	279.0	286.0	288.0	284.0	278.0	270.0	265.0	264.0
50°	276.0	278.0	284.0	293.0	301.0	303.0	299.0	291.0	282.0	275.0	274.0
52.5°	284.0	286.0	293.0	305.0	314.0	317.0	312.0	303.0	291.0	283.0	282.0
55°	288.0	289.0	298.0	311.0	320.0	324.0	319.0	309.0	296.0	287.0	286.0
57.5°	285.0	286.0	296.0	310.0	320.0	325.0	320.0	308.0	294.0	285.0	284.0
60°	279.0	279.0	288.0	304.0	316.0	319.0	314.0	302.0	287.0	278.0	277.0
62.5°	268.0	267.0	278.0	292.0	304.0	307.0	303.0	291.0	276.0	267.0	266.0
65°	247.0	245.0	261.0	274.0	285.0	288.0	285.0	274.0	260.0	246.0	244.0
67.5°	222.0	219.0	234.0	249.0	259.0	263.0	259.0	250.0	234.0	220.0	219.0
70°	196.0	193.0	205.0	218.0	229.0	231.0	227.0	218.0	203.0	194.0	194.0
72.5°	165.0	162.0	173.0	183.0	194.0	196.0	192.0	184.0	173.0	164.0	163.0
75°	131.0	128.0	138.0	146.0	157.0	158.0	156.0	147.0	138.0	129.0	129.0
77.5°	97.0	94.0	102.0	109.0	118.0	118.0	117.0	110.0	102.0	96.0	96.0
80°	64.0	62.0	69.0	72.0	80.0	80.0	79.0	74.0	68.0	64.0	63.0
82.5°	36.0	34.0	40.0	41.0	47.0	47.0	46.0	42.0	38.0	35.0	35.0
85°	14.0	12.0	16.0	17.0	20.0	20.0	19.0	18.0	15.0	13.0	13.0
87.5°	1.0	1.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0
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)