

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: P832861

Luminaire Tested: **TTN-D0-750-U-CQ-UPL1**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P832861  
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-CQ-UPL1  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
5000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION  
Light Source: -  
Ballast/Driver: -

**Summary**

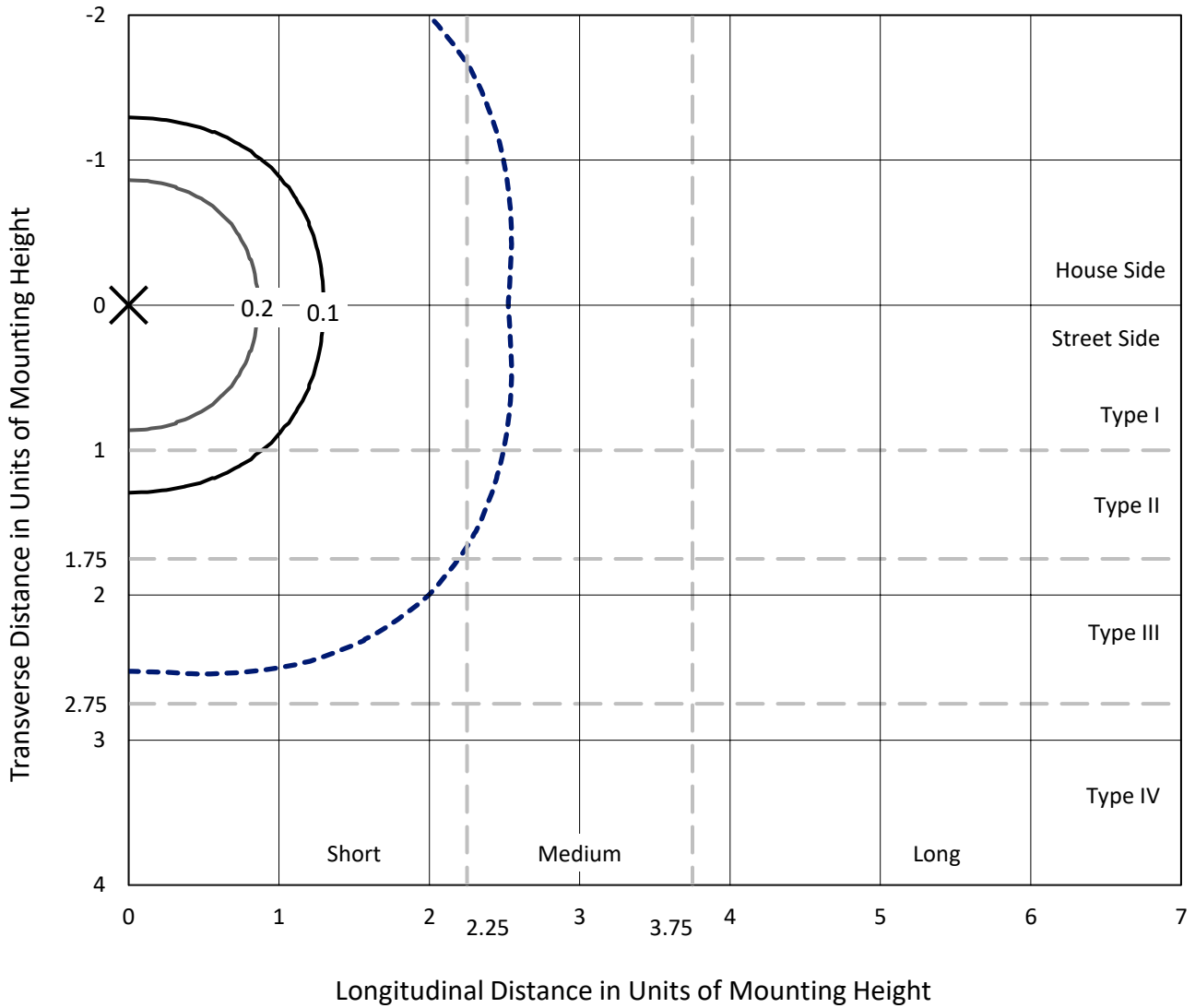
Lumens per Lamp: N/A  
Luminaire Lumens: 1545.9 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B1 - U3 - G0  
  
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): 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

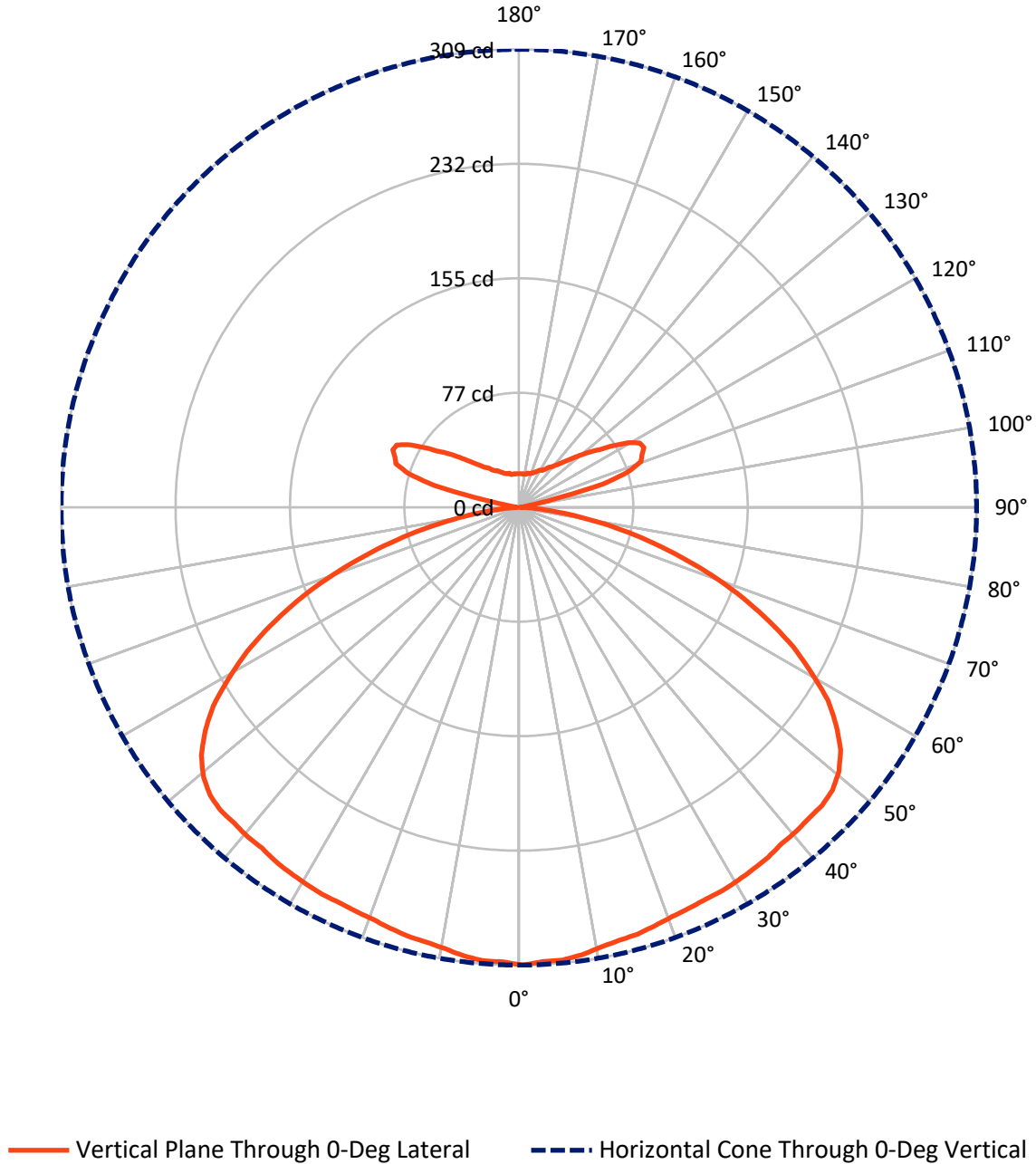
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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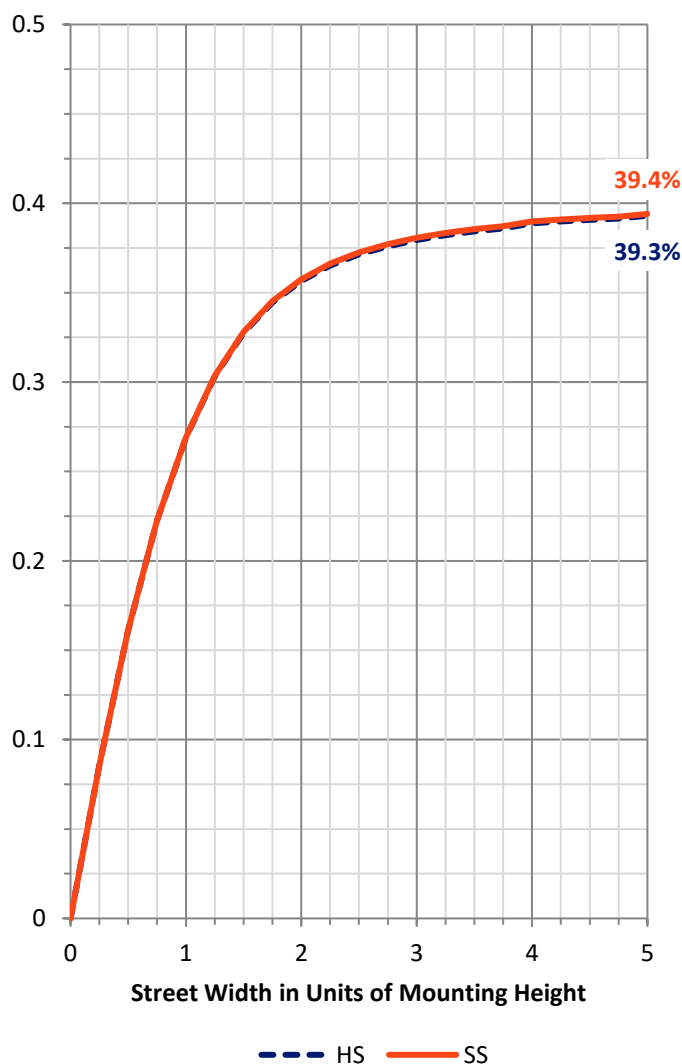
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	611.2	161.7	772.9
	% Fixture	39.5	10.5	50.0
<b>Street Side</b>	Lumens	611.2	161.7	772.9
	% Fixture	39.5	10.5	50.0
<b>Total</b>	Lumens	1222.4	323.4	1545.9
	% Fixture	79.1	20.9	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.1	1.9
10°-20°	84.6	5.5
20°-30°	136.2	8.8
30°-40°	183.2	11.9
40°-50°	226.1	14.6
50°-60°	242.5	15.7
60°-70°	196.7	12.7
70°-80°	104.2	6.7
80°-90°	19.7	1.3
90°-100°	7.2	0.5
100°-110°	73.4	4.7
110°-120°	107.3	6.9
120°-130°	62.3	4.0
130°-140°	33.0	2.1
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°	1222.4	79.1
0°-180°	1545.9	100.0

**Coefficient of Utilization**



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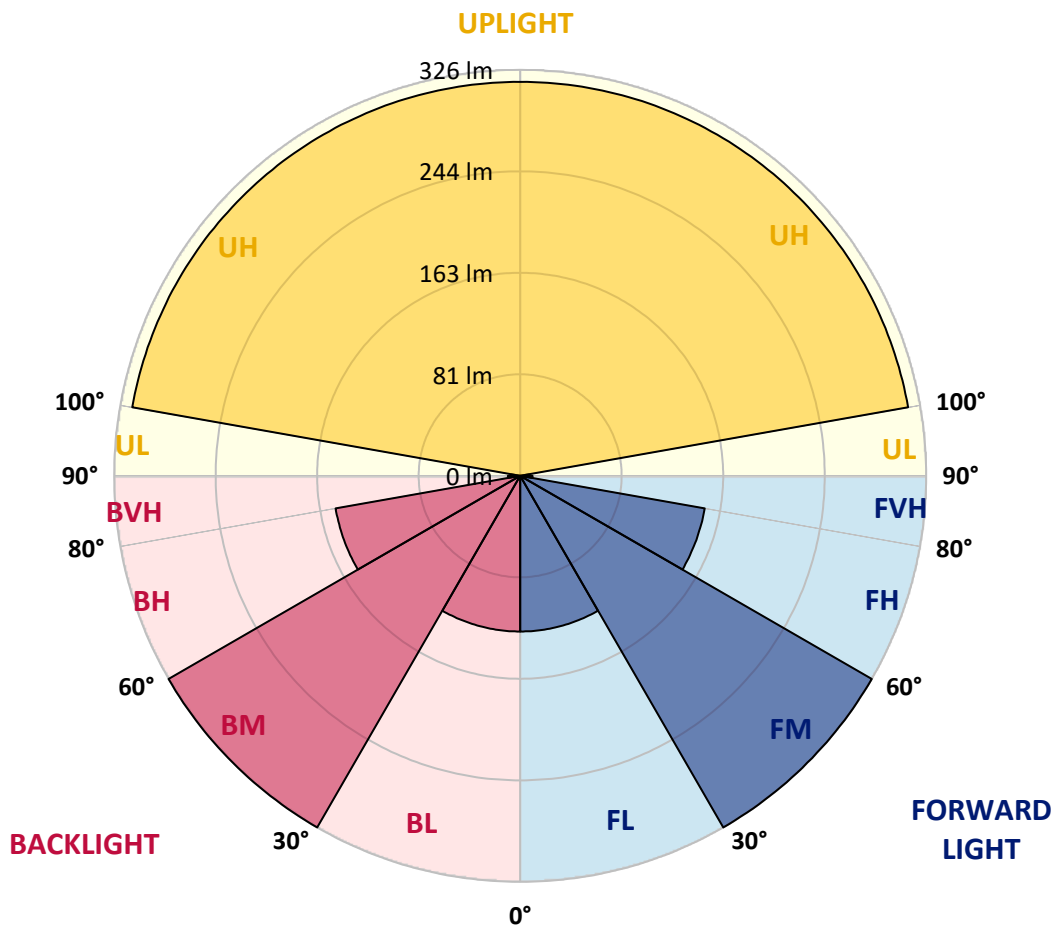
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.0	8.1			
FM (30°-60°)	325.9	21.1			
FH (60°-80°)	150.5	9.7			G0/660
FVH (80°-90°)	9.9	0.6			G0/10
BL (0°-30°)	125.0	8.1	B1/500		
BM (30°-60°)	325.9	21.1	B1/1000		
BH (60°-80°)	150.5	9.7	B1/500		G0/660
BVH (80°-90°)	9.9	0.6			G0/10
UL (90°-100°)	7.2	0.5		U1/10	
UH (100°-180°)	316.2	20.5		U3/500	

**BUG Rating: B1-U3-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0
2.5°	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	308.0
5°	307.0	307.0	307.0	307.0	306.0	307.0	307.0	307.0	307.0	307.0	307.0
7.5°	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0	305.0
10°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
12.5°	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
15°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	298.0	298.0
17.5°	297.0	297.0	297.0	297.0	298.0	298.0	298.0	297.0	297.0	297.0	297.0
20°	295.0	295.0	295.0	296.0	296.0	296.0	296.0	296.0	295.0	295.0	295.0
22.5°	294.0	294.0	294.0	294.0	295.0	295.0	295.0	295.0	294.0	294.0	294.0
25°	293.0	293.0	294.0	294.0	295.0	295.0	295.0	294.0	294.0	293.0	293.0
27.5°	293.0	293.0	294.0	294.0	295.0	295.0	295.0	295.0	294.0	293.0	293.0
30°	292.0	293.0	293.0	294.0	295.0	295.0	295.0	294.0	293.0	292.0	292.0
32.5°	291.0	291.0	292.0	293.0	294.0	294.0	294.0	293.0	292.0	291.0	290.0
35°	290.0	290.0	290.0	292.0	293.0	293.0	293.0	292.0	290.0	289.0	289.0
37.5°	288.0	289.0	290.0	291.0	293.0	293.0	293.0	291.0	289.0	288.0	287.0
40°	288.0	288.0	290.0	291.0	294.0	294.0	293.0	291.0	289.0	287.0	286.0
42.5°	287.0	288.0	290.0	293.0	296.0	296.0	295.0	292.0	289.0	287.0	286.0
45°	287.0	287.0	290.0	294.0	298.0	299.0	297.0	294.0	290.0	286.0	286.0
47.5°	285.0	285.0	289.0	294.0	299.0	300.0	299.0	294.0	289.0	286.0	285.0
50°	280.0	280.0	285.0	291.0	297.0	299.0	297.0	293.0	286.0	282.0	281.0
52.5°	272.0	272.0	277.0	285.0	291.0	294.0	292.0	287.0	280.0	274.0	273.0
55°	260.0	261.0	266.0	275.0	282.0	285.0	283.0	277.0	269.0	263.0	261.0
57.5°	246.0	246.0	253.0	262.0	269.0	272.0	270.0	264.0	255.0	249.0	247.0
60°	227.0	228.0	234.0	246.0	253.0	256.0	254.0	247.0	237.0	230.0	228.0
62.5°	208.0	209.0	215.0	225.0	233.0	235.0	233.0	226.0	217.0	210.0	208.0
65°	186.0	187.0	194.0	203.0	209.0	212.0	209.0	203.0	195.0	188.0	187.0
67.5°	163.0	164.0	171.0	179.0	185.0	187.0	184.0	179.0	171.0	165.0	163.0
70°	139.0	140.0	146.0	153.0	158.0	160.0	158.0	152.0	146.0	140.0	139.0
72.5°	114.0	115.0	121.0	127.0	131.0	133.0	130.0	126.0	120.0	115.0	114.0
75°	90.0	90.0	95.0	100.0	104.0	105.0	103.0	100.0	95.0	91.0	89.0
77.5°	67.0	67.0	72.0	75.0	77.0	79.0	77.0	74.0	71.0	67.0	67.0
80°	45.0	45.0	49.0	51.0	53.0	54.0	53.0	51.0	49.0	46.0	45.0
82.5°	27.0	27.0	29.0	31.0	31.0	32.0	32.0	31.0	29.0	27.0	27.0
85°	12.0	11.0	13.0	14.0	14.0	15.0	15.0	14.0	13.0	12.0	12.0
87.5°	1.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0
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)