

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: P833242

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

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833242  
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-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: 3515.9 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U3 - G1

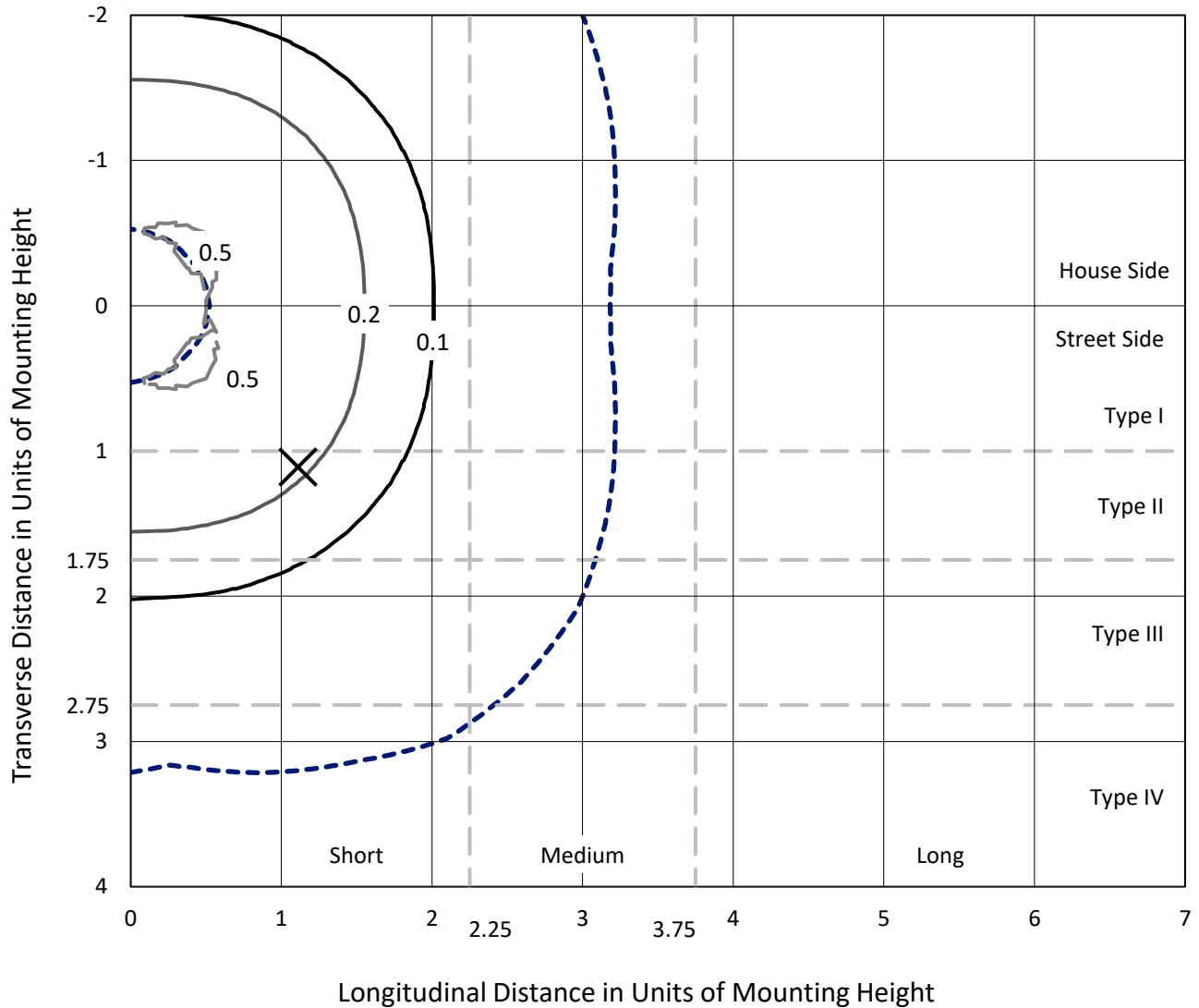
Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

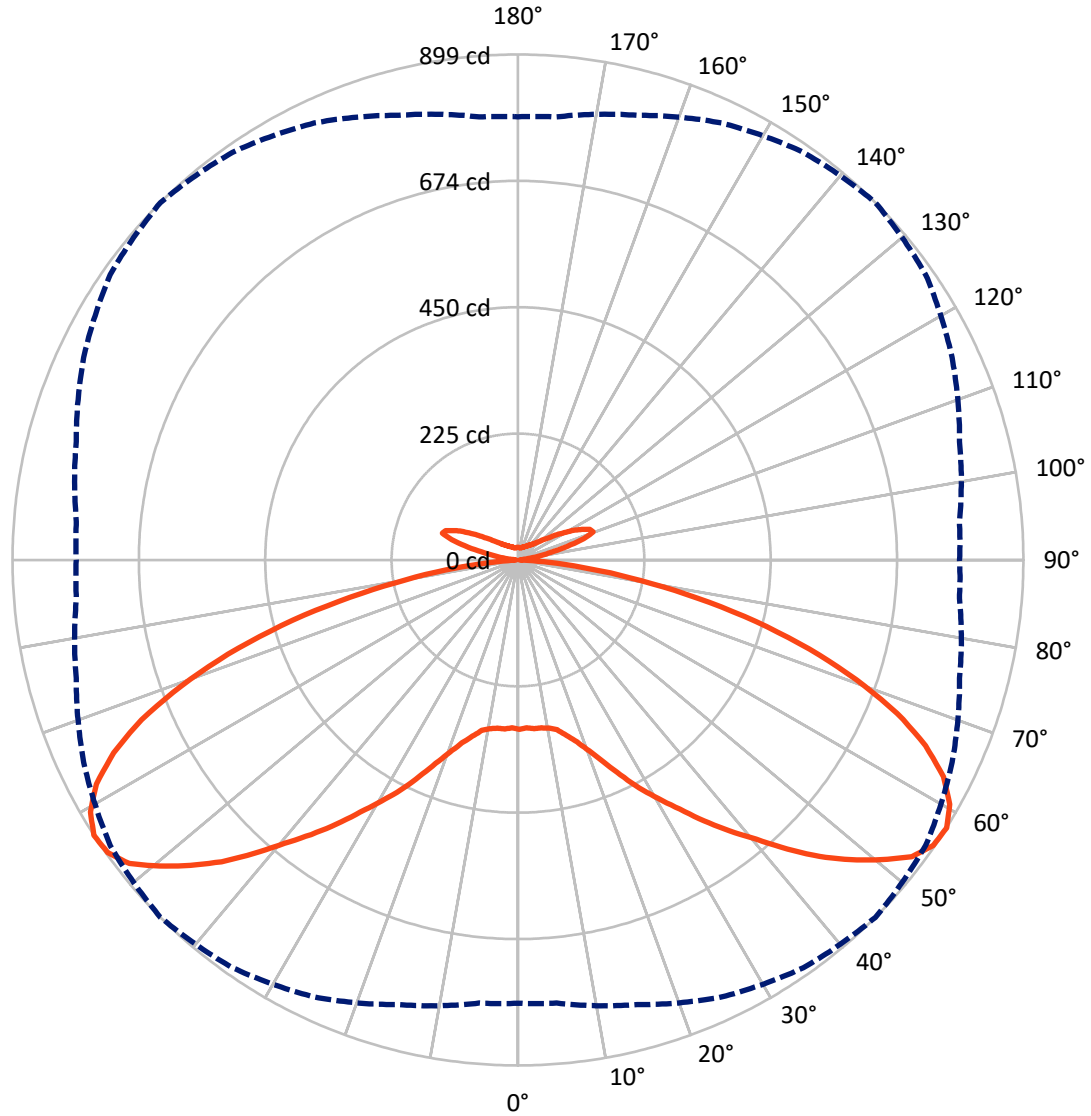
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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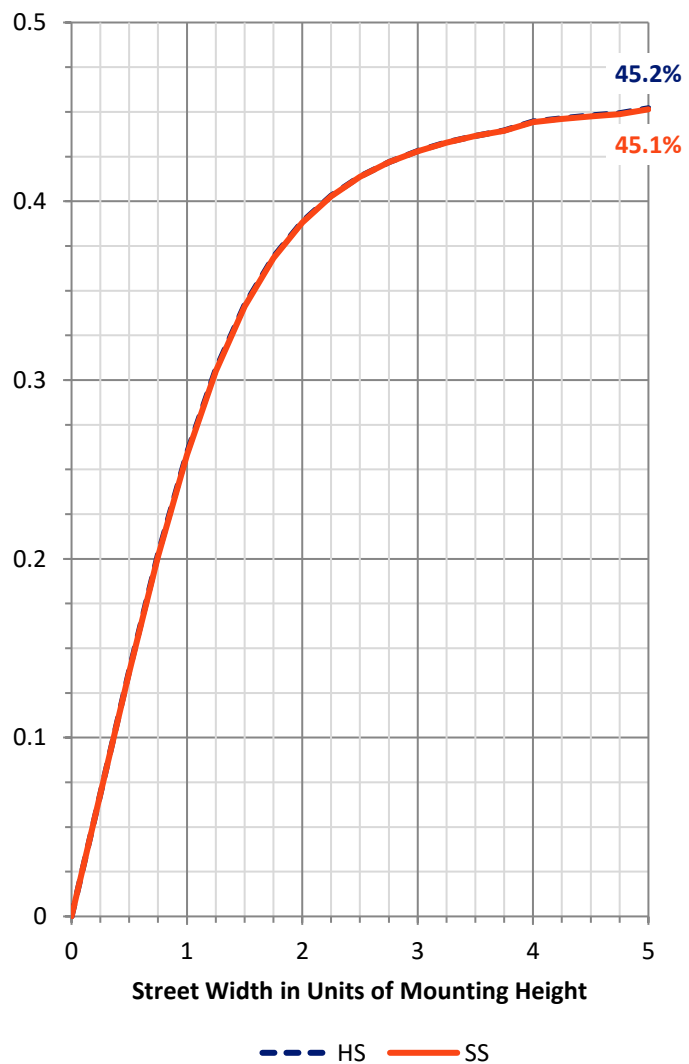
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1596.2	161.7	1757.9
	% Fixture	45.4	4.6	50.0
<b>Street Side</b>	Lumens	1596.2	161.7	1757.9
	% Fixture	45.4	4.6	50.0
<b>Total</b>	Lumens	3192.4	323.4	3515.9
	% Fixture	90.8	9.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	0.8
10°-20°	93.0	2.6
20°-30°	195.6	5.6
30°-40°	352.6	10.0
40°-50°	560.6	15.9
50°-60°	747.9	21.3
60°-70°	722.6	20.6
70°-80°	418.7	11.9
80°-90°	72.6	2.1
90°-100°	7.2	0.2
100°-110°	73.4	2.1
110°-120°	107.3	3.1
120°-130°	62.3	1.8
130°-140°	33.0	0.9
140°-150°	19.6	0.6
150°-160°	12.1	0.3
160°-170°	6.6	0.2
170°-180°	2.1	0.1
0°-90°	3192.4	90.8
0°-180°	3515.9	100.0

**Coefficient of Utilization**

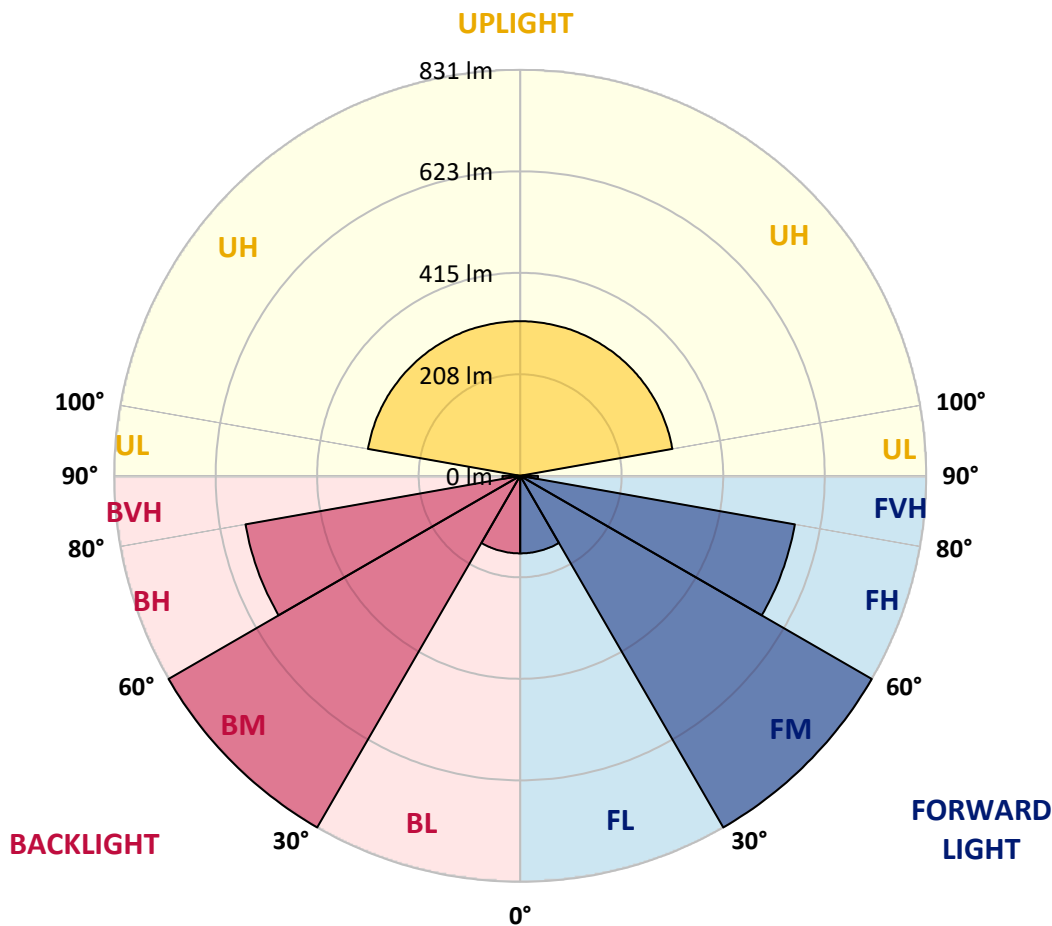


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.7	4.5			
FM (30°-60°)	830.6	23.6			
FH (60°-80°)	570.7	16.2			G0/660
FVH (80°-90°)	36.3	1.0			G1/100
BL (0°-30°)	158.7	4.5	B1/500		
BM (30°-60°)	830.6	23.6	B1/1000		
BH (60°-80°)	570.7	16.2	B2/1000		G0/660
BVH (80°-90°)	36.3	1.0			G1/100
UL (90°-100°)	7.2	0.2		U1/10	
UH (100°-180°)	316.2	9.0		U3/500	

**BUG Rating: B2-U3-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5
2.5°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
5°	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5	301.5
7.5°	298.8	298.8	301.5	301.5	301.5	301.5	301.5	301.5	301.5	298.8	298.8
10°	301.5	301.5	301.5	304.3	304.3	304.3	304.3	304.3	301.5	301.5	301.5
12.5°	307.1	307.1	309.8	309.8	309.8	309.8	309.8	309.8	309.8	307.1	307.1
15°	320.9	320.9	320.9	323.7	323.7	323.7	323.7	323.7	320.9	320.9	320.9
17.5°	334.7	334.7	337.5	337.5	340.3	340.3	340.3	337.5	337.5	337.5	337.5
20°	354.1	354.1	356.9	356.9	359.6	362.4	362.4	359.6	356.9	356.9	356.9
22.5°	379.0	381.8	381.8	381.8	384.5	390.1	387.3	384.5	381.8	381.8	381.8
25°	409.4	412.2	415.0	415.0	417.7	423.3	423.3	415.0	415.0	415.0	415.0
27.5°	445.4	448.2	450.9	450.9	453.7	459.2	456.5	450.9	450.9	448.2	448.2
30°	478.6	481.4	484.1	486.9	489.7	492.4	492.4	486.9	484.1	481.4	478.6
32.5°	511.8	511.8	517.3	522.9	528.4	528.4	531.2	522.9	517.3	511.8	509.0
35°	545.0	547.8	550.5	558.8	567.1	569.9	567.1	558.8	550.5	545.0	545.0
37.5°	580.9	583.7	586.5	597.5	605.8	611.4	605.8	597.5	586.5	580.9	578.2
40°	619.7	622.4	625.2	639.0	647.3	652.9	644.6	636.3	625.2	619.7	616.9
42.5°	655.6	661.2	666.7	683.3	697.1	702.7	694.4	680.5	669.5	655.6	652.9
45°	699.9	705.4	713.7	730.3	744.2	752.5	741.4	727.6	711.0	699.9	697.1
47.5°	735.9	741.4	749.7	771.8	791.2	796.7	785.7	769.1	746.9	733.1	730.3
50°	763.5	769.1	785.7	810.6	832.7	838.2	827.2	805.0	780.1	760.8	758.0
52.5°	785.7	791.2	810.6	843.8	868.7	877.0	863.1	838.2	805.0	782.9	780.1
55°	796.7	799.5	824.4	860.4	885.3	896.3	882.5	854.8	818.9	794.0	791.2
57.5°	788.4	791.2	818.9	857.6	885.3	899.1	885.3	852.1	813.3	788.4	785.7
60°	771.8	771.8	796.7	841.0	874.2	882.5	868.7	835.5	794.0	769.1	766.3
62.5°	741.4	738.6	769.1	807.8	841.0	849.3	838.2	805.0	763.5	738.6	735.9
65°	683.3	677.8	722.0	758.0	788.4	796.7	788.4	758.0	719.3	680.5	675.0
67.5°	614.1	605.8	647.3	688.8	716.5	727.6	716.5	691.6	647.3	608.6	605.8
70°	542.2	533.9	567.1	603.1	633.5	639.0	628.0	603.1	561.6	536.7	536.7
72.5°	456.5	448.2	478.6	506.3	536.7	542.2	531.2	509.0	478.6	453.7	450.9
75°	362.4	354.1	381.8	403.9	434.3	437.1	431.6	406.7	381.8	356.9	356.9
77.5°	268.3	260.0	282.2	301.5	326.4	326.4	323.7	304.3	282.2	265.6	265.6
80°	177.1	171.5	190.9	199.2	221.3	221.3	218.5	204.7	188.1	177.1	174.3
82.5°	99.6	94.1	110.7	113.4	130.0	130.0	127.3	116.2	105.1	96.8	96.8
85°	38.7	33.2	44.3	47.0	55.3	55.3	52.6	49.8	41.5	36.0	36.0
87.5°	2.8	2.8	5.5	5.5	8.3	8.3	8.3	5.5	5.5	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)