

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: P833897

Luminaire Tested: **TTN-D3-735-U-RW-CG-UPL2**

Issue Date: 5/15/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P833897  
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-D3-735-U-RW-CG-UPL2  
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT  
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS  
Light Source: -  
Ballast/Driver: -

**Summary**

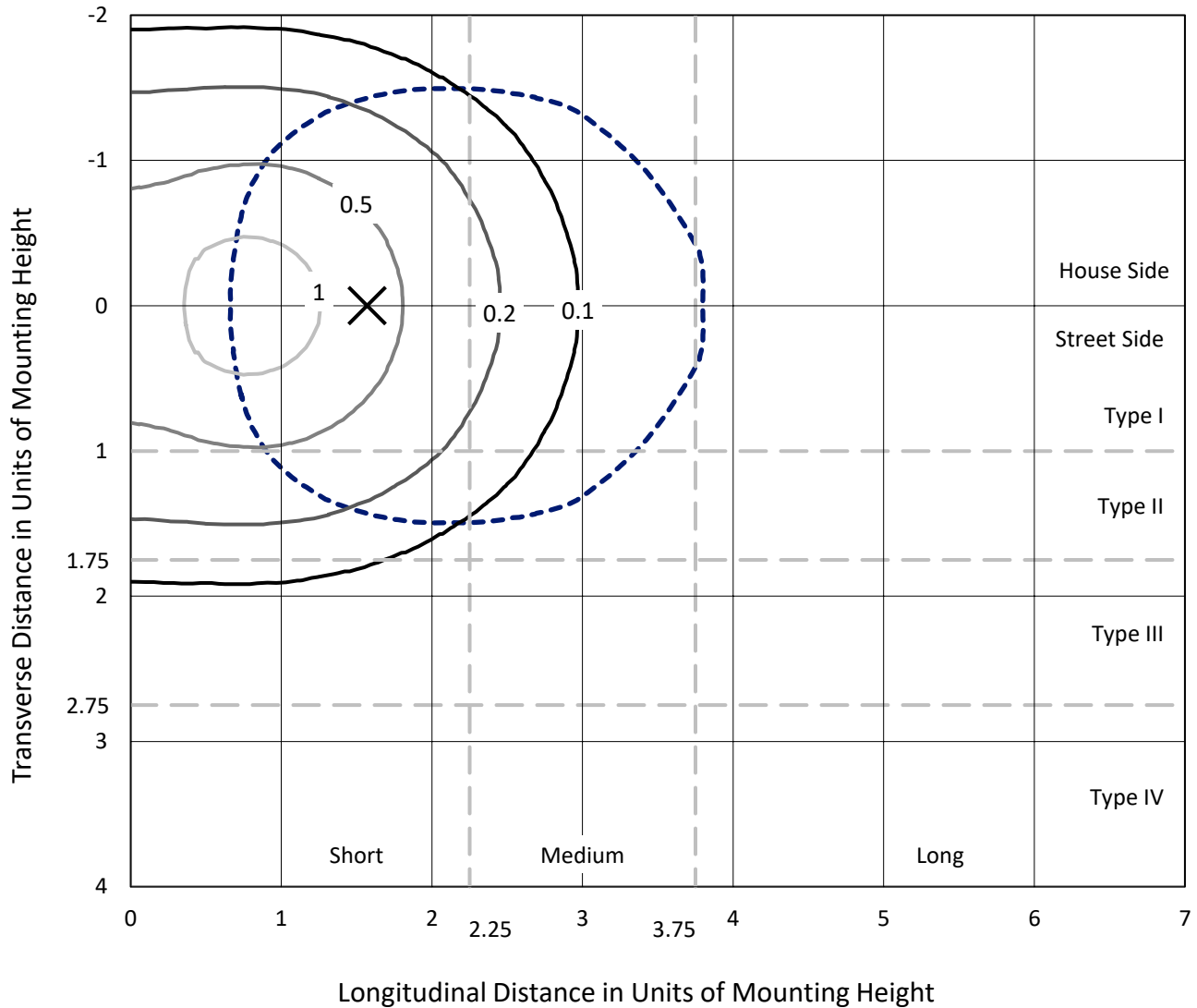
Lumens per Lamp: N/A  
Luminaire Lumens: 6641.8 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')  
IES Classification: Type II - Short  
BUG Rating: B3 - U4 - G3  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 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

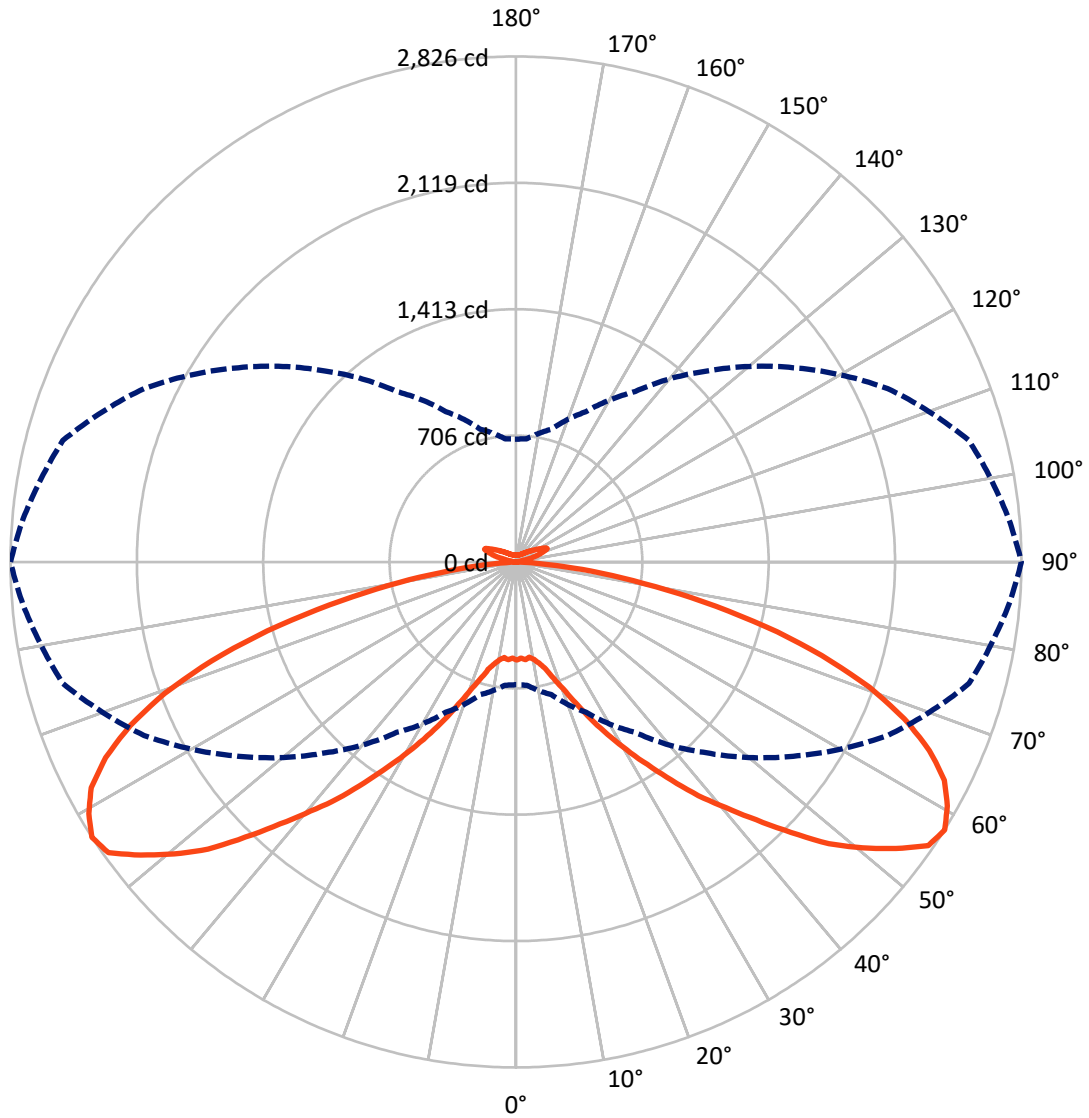
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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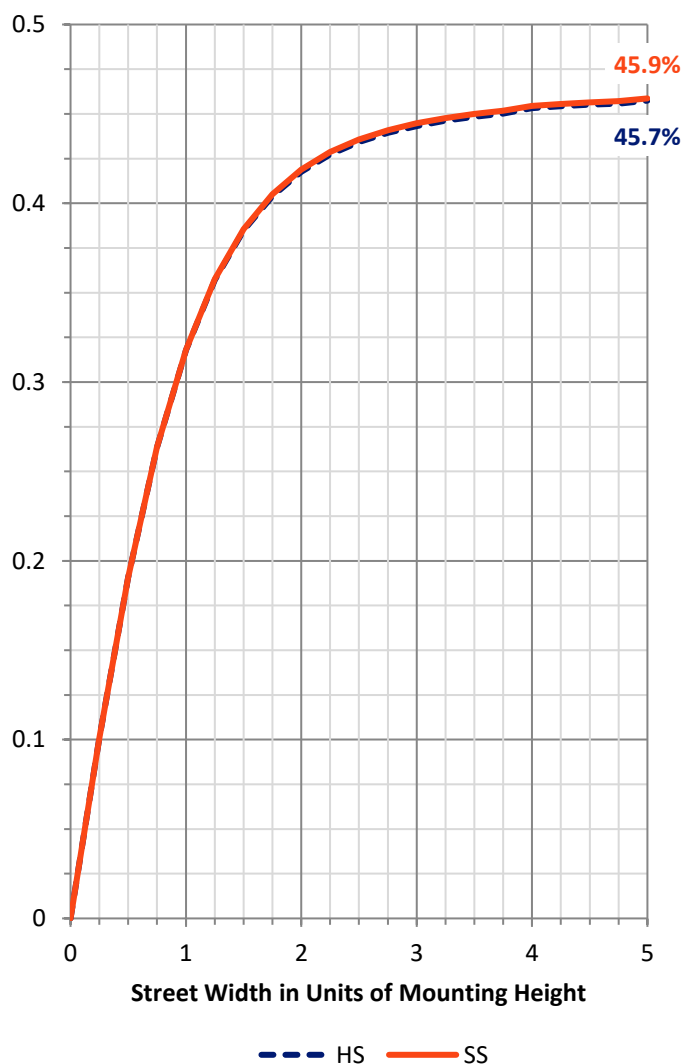
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3049.4	271.5	3320.9
	% Fixture	45.9	4.1	50.0
<b>Street Side</b>	Lumens	3049.4	271.5	3320.9
	% Fixture	45.9	4.1	50.0
<b>Total</b>	Lumens	6098.7	543.0	6641.8
	% Fixture	91.8	8.2	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.2	0.8
10°-20°	168.5	2.5
20°-30°	358.6	5.4
30°-40°	661.0	10.0
40°-50°	1064.2	16.0
50°-60°	1440.4	21.7
60°-70°	1400.5	21.1
70°-80°	814.8	12.3
80°-90°	138.5	2.1
90°-100°	12.1	0.2
100°-110°	123.2	1.9
110°-120°	180.1	2.7
120°-130°	104.5	1.6
130°-140°	55.4	0.8
140°-150°	32.9	0.5
150°-160°	20.2	0.3
160°-170°	11.0	0.2
170°-180°	3.6	0.1
0°-90°	6098.7	91.8
0°-180°	6641.8	100.0

**Coefficient of Utilization**



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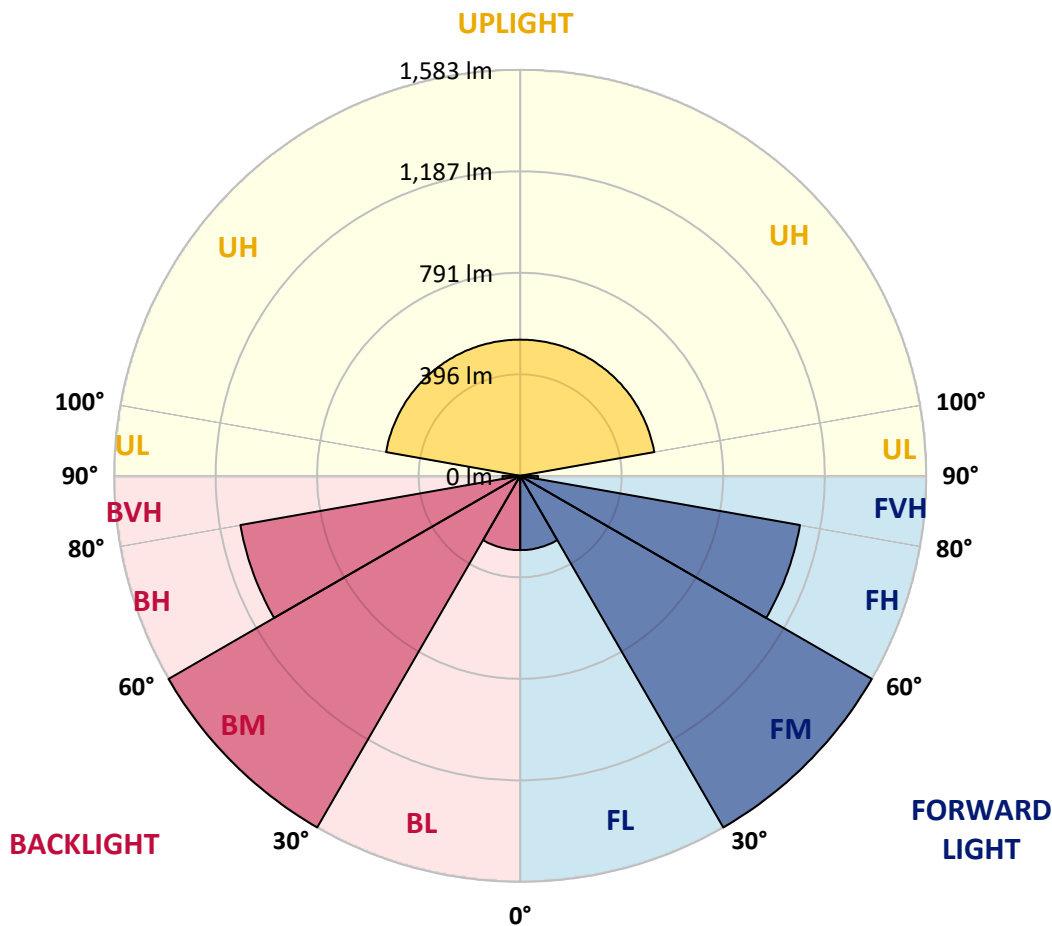
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.7	4.4			
FM (30°-60°)	1582.8	23.8			
FH (60°-80°)	1107.7	16.7			G1/1800
FVH (80°-90°)	69.2	1.0			G1/100
BL (0°-30°)	289.7	4.4	B1/500		
BM (30°-60°)	1582.8	23.8	B2/2500		
BH (60°-80°)	1107.7	16.7	B3/2500		G3/2500
BVH (80°-90°)	69.2	1.0			G1/100
UL (90°-100°)	12.1	0.2		U2/50	
UH (100°-180°)	530.9	8.0		U4/1000	

**BUG Rating: B3-U4-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7
2.5°	548.7	548.7	548.7	548.7	543.2	543.2	543.2	537.7	537.7	537.7	537.7
5°	548.7	548.7	548.7	554.2	554.2	554.2	548.7	548.7	548.7	548.7	548.7
7.5°	548.7	554.2	554.2	548.7	548.7	543.2	543.2	543.2	537.7	537.7	537.7
10°	548.7	548.7	548.7	548.7	543.2	543.2	548.7	548.7	554.2	554.2	554.2
12.5°	543.2	543.2	548.7	548.7	548.7	554.2	565.1	570.6	576.1	581.6	581.6
15°	548.7	548.7	554.2	559.6	565.1	576.1	592.6	609.0	620.0	625.5	620.0
17.5°	548.7	554.2	559.6	570.6	587.1	603.5	631.0	652.9	674.9	680.3	685.8
20°	559.6	559.6	565.1	587.1	614.5	641.9	680.3	718.7	746.2	757.2	757.2
22.5°	565.1	570.6	576.1	603.5	647.4	691.3	746.2	790.1	828.5	850.4	855.9
25°	581.6	581.6	592.6	631.0	685.8	751.7	823.0	888.8	938.2	965.6	971.1
27.5°	592.6	598.0	614.5	663.9	735.2	817.5	916.3	993.1	1053.4	1086.4	1091.8
30°	603.5	609.0	641.9	696.8	784.6	883.3	998.6	1097.3	1174.1	1212.5	1218.0
32.5°	620.0	625.5	663.9	724.2	828.5	949.2	1080.9	1201.6	1311.3	1344.2	1349.7
35°	636.4	641.9	685.8	757.2	877.9	1015.0	1168.7	1311.3	1443.0	1486.9	1497.9
37.5°	652.9	658.4	702.3	790.1	927.2	1086.4	1267.4	1437.5	1580.2	1640.5	1657.0
40°	669.4	674.9	724.2	823.0	976.6	1163.2	1371.7	1558.2	1722.8	1794.1	1805.1
42.5°	680.3	685.8	740.7	850.4	1026.0	1234.5	1481.4	1689.9	1865.5	1958.7	1969.7
45°	696.8	702.3	762.6	888.8	1069.9	1316.8	1585.6	1838.0	2041.0	2145.3	2156.2
47.5°	707.8	713.3	779.1	910.8	1119.3	1393.6	1695.4	1969.7	2211.1	2320.8	2353.8
50°	713.3	718.7	790.1	932.7	1152.2	1448.5	1783.2	2101.4	2359.3	2496.4	2512.9
52.5°	713.3	724.2	795.6	949.2	1174.1	1497.9	1854.5	2211.1	2501.9	2655.5	2661.0
55°	707.8	713.3	790.1	943.7	1185.1	1519.8	1903.9	2277.0	2600.7	2748.8	2798.2
57.5°	685.8	691.3	768.1	927.2	1163.2	1508.8	1892.9	2293.4	2622.6	2765.3	2825.6
60°	652.9	663.9	735.2	888.8	1130.2	1470.4	1860.0	2260.5	2589.7	2765.3	2770.8
62.5°	614.5	620.0	691.3	839.5	1080.9	1410.1	1799.6	2194.7	2512.9	2693.9	2688.5
65°	559.6	565.1	625.5	779.1	993.1	1294.8	1678.9	2090.4	2364.7	2556.8	2540.3
67.5°	499.3	504.8	559.6	696.8	888.8	1168.7	1514.3	1914.8	2156.2	2353.8	2342.8
70°	433.4	433.4	482.8	598.0	779.1	1026.0	1333.3	1684.4	1925.8	2090.4	2095.9
72.5°	356.6	356.6	400.5	499.3	652.9	861.4	1124.8	1437.5	1635.0	1777.7	1788.6
75°	279.8	274.3	312.7	395.0	515.7	685.8	888.8	1157.7	1311.3	1448.5	1443.0
77.5°	197.5	197.5	219.5	285.3	373.1	510.3	658.4	872.4	976.6	1091.8	1069.9
80°	126.2	126.2	137.2	186.5	246.9	340.2	433.4	592.6	663.9	751.7	724.2
82.5°	65.8	60.4	71.3	98.8	131.7	186.5	241.4	345.7	378.6	444.4	422.5
85°	21.9	21.9	21.9	32.9	49.4	71.3	93.3	148.1	153.6	197.5	181.1
87.5°	5.5	0.0	0.0	5.5	5.5	5.5	5.5	16.5	16.5	32.9	21.9
90°	4.6	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.6	4.6
92.5°	4.6	4.6	4.6	6.5	7.4	6.5	7.4	5.6	5.6	4.6	4.6
95°	5.6	5.6	6.5	8.4	10.2	11.1	11.1	6.5	6.5	5.6	5.6
97.5°	7.4	8.4	8.4	10.2	16.7	30.7	18.6	9.3	9.3	8.4	7.4
100°	12.1	13.0	13.0	23.2	49.2	66.0	47.4	24.2	17.7	13.0	13.0
102.5°	39.0	40.9	50.2	75.3	111.5	101.3	85.5	80.8	55.7	44.6	42.7
105°	99.4	98.5	105.9	125.4	156.1	153.3	141.2	128.2	110.6	102.2	102.2
107.5°	131.0	131.0	137.5	154.2	177.4	207.2	210.0	166.3	145.9	136.6	135.6
110°	147.7	147.7	153.3	167.2	197.9	239.7	237.8	205.3	180.2	168.2	166.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	151.4	152.4	159.8	181.2	214.6	233.2	224.8	211.8	200.7	191.4	189.5
115°	157.0	157.0	165.4	185.8	204.4	211.8	202.5	192.3	184.9	181.2	183.0
117.5°	155.1	157.9	159.8	170.9	183.0	188.6	183.9	170.0	164.4	162.6	159.8
120°	144.0	144.0	145.9	151.4	157.9	160.7	158.9	149.6	144.9	144.0	142.1
122.5°	128.2	129.1	128.2	131.0	135.6	138.4	136.6	129.1	127.3	127.3	125.4
125°	112.4	112.4	111.5	113.3	116.1	115.2	116.1	112.4	111.5	111.5	110.6
127.5°	101.3	100.3	98.5	99.4	100.3	100.3	101.3	97.5	98.5	99.4	98.5
130°	90.1	90.1	88.3	88.3	88.3	86.4	88.3	86.4	87.3	88.3	89.2
132.5°	79.9	79.9	77.1	76.2	76.2	76.2	77.1	76.2	78.0	79.9	79.9
135°	71.5	71.5	68.7	69.7	69.7	68.7	69.7	68.7	70.6	71.5	71.5
137.5°	65.0	65.0	63.2	63.2	63.2	62.2	63.2	63.2	64.1	66.0	66.9
140°	59.5	59.5	58.5	58.5	57.6	58.5	58.5	58.5	59.5	60.4	60.4
142.5°	56.7	55.7	54.8	53.9	54.8	54.8	54.8	53.9	54.8	56.7	56.7
145°	52.0	52.0	51.1	51.1	51.1	52.0	51.1	51.1	52.0	52.0	53.0
147.5°	49.2	49.2	48.3	49.2	49.2	49.2	49.2	48.3	49.2	49.2	50.2
150°	48.3	47.4	46.5	47.4	47.4	46.5	46.5	46.5	46.5	47.4	47.4
152.5°	45.5	45.5	44.6	45.5	44.6	44.6	44.6	44.6	44.6	45.5	46.5
155°	43.7	43.7	42.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
157.5°	41.8	42.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.7	42.7
160°	40.9	40.9	40.9	40.9	39.9	39.9	39.9	40.9	40.9	40.9	41.8
162.5°	39.9	39.9	39.9	39.9	39.0	39.0	39.0	39.0	39.9	39.9	40.9
165°	39.9	39.0	39.0	39.0	38.1	38.1	38.1	38.1	39.0	39.9	39.0
167.5°	38.1	38.1	38.1	38.1	38.1	37.2	37.2	38.1	38.1	38.1	39.0
170°	38.1	38.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	38.1
172.5°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	37.2	37.2	38.1	38.1
175°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	38.1	38.1	38.1	37.2
177.5°	38.1	38.1	38.1	38.1	37.2	38.1	38.1	38.1	38.1	38.1	38.1
180°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1

(END OF REPORT)