

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: P833909

Luminaire Tested: **TTN-D3-735-U-WQ-UPL2**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833909
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-WQ-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7212.8 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

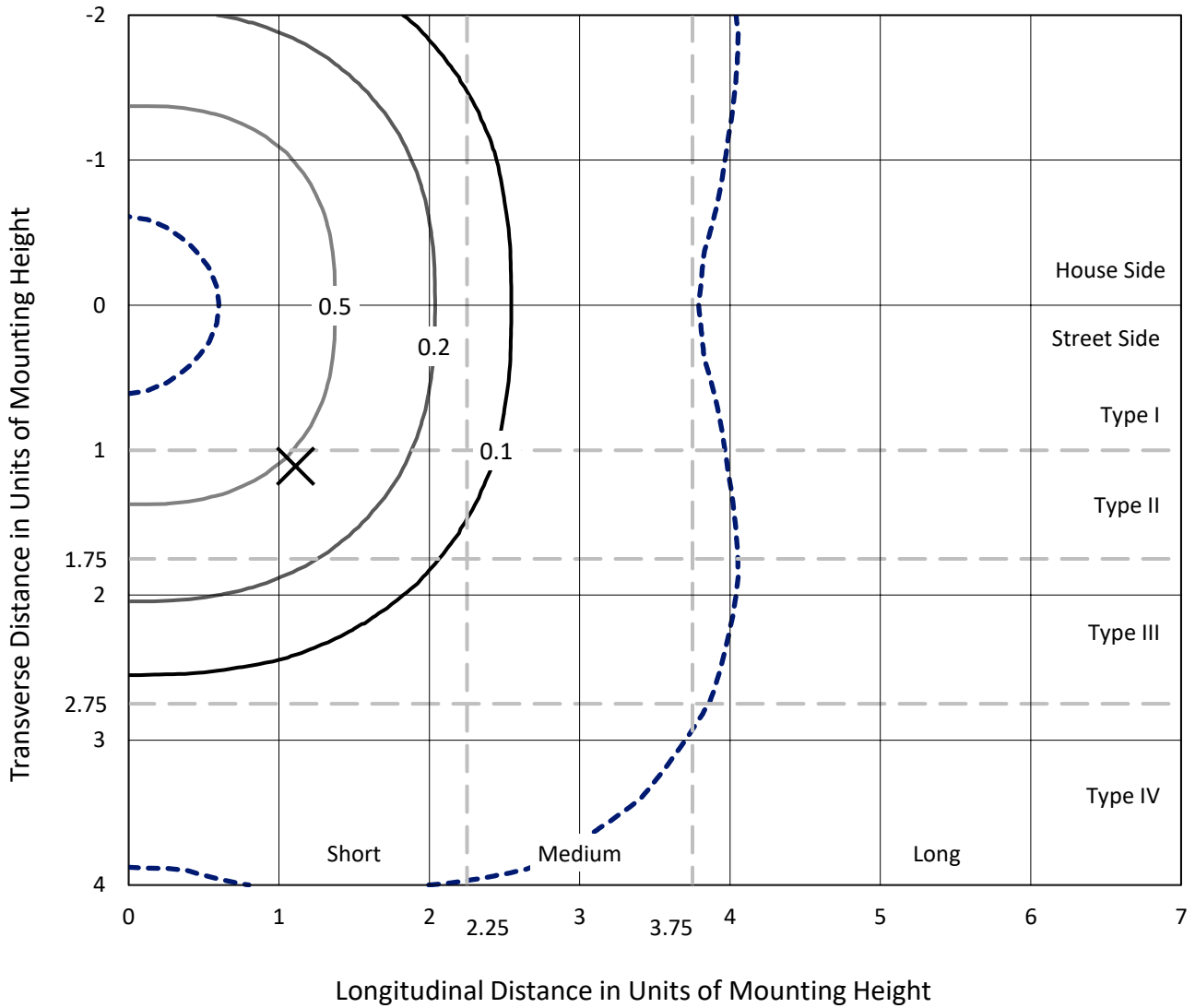
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

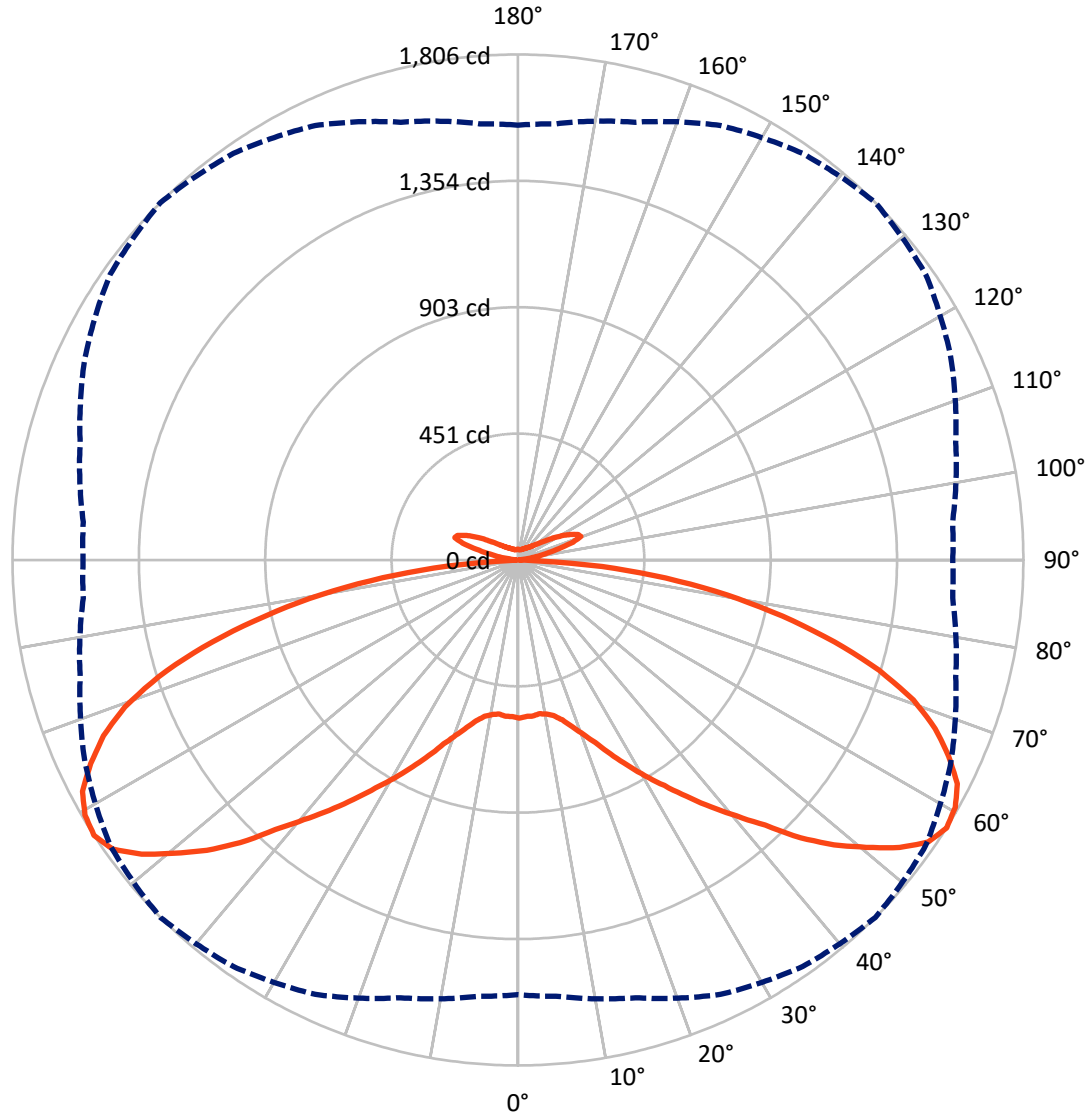
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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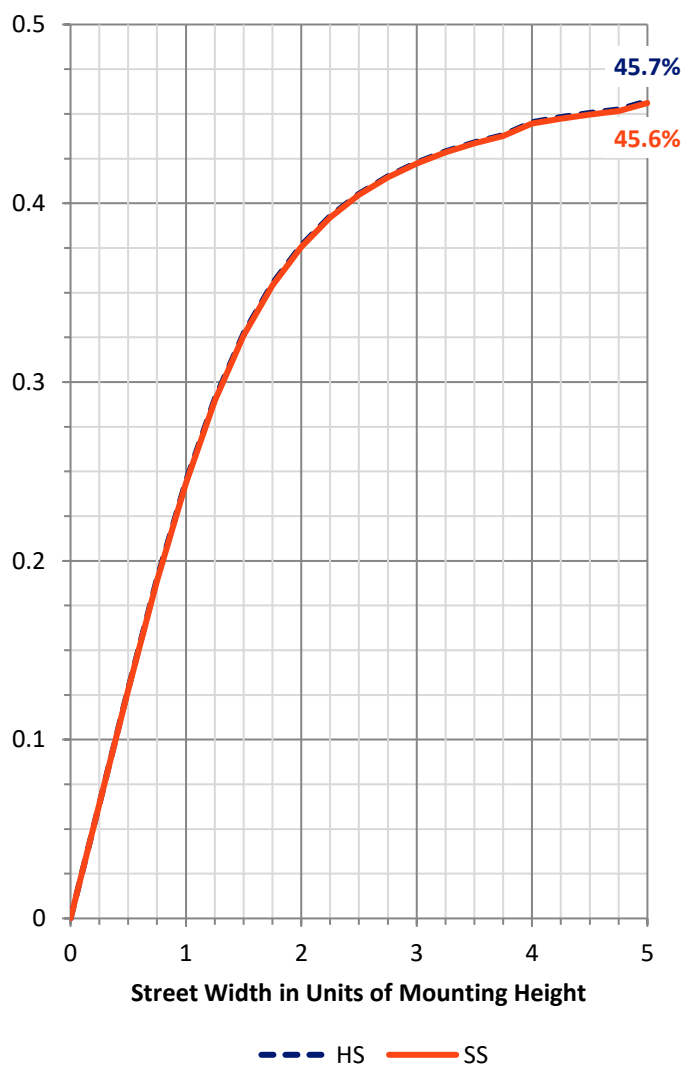
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3334.9	271.5	3606.4
	% Fixture	46.2	3.8	50.0
Street Side	Lumens	3334.9	271.5	3606.4
	% Fixture	46.2	3.8	50.0
Total	Lumens	6669.8	543.0	7212.8
	% Fixture	92.5	7.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.7
10°-20°	169.6	2.4
20°-30°	355.8	4.9
30°-40°	645.4	8.9
40°-50°	1052.2	14.6
50°-60°	1472.7	20.4
60°-70°	1537.5	21.3
70°-80°	1098.5	15.2
80°-90°	285.0	4.0
90°-100°	12.1	0.2
100°-110°	123.2	1.7
110°-120°	180.1	2.5
120°-130°	104.5	1.4
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	0.0
0°-90°	6669.8	92.5
0°-180°	7212.8	100.0

Coefficient of Utilization



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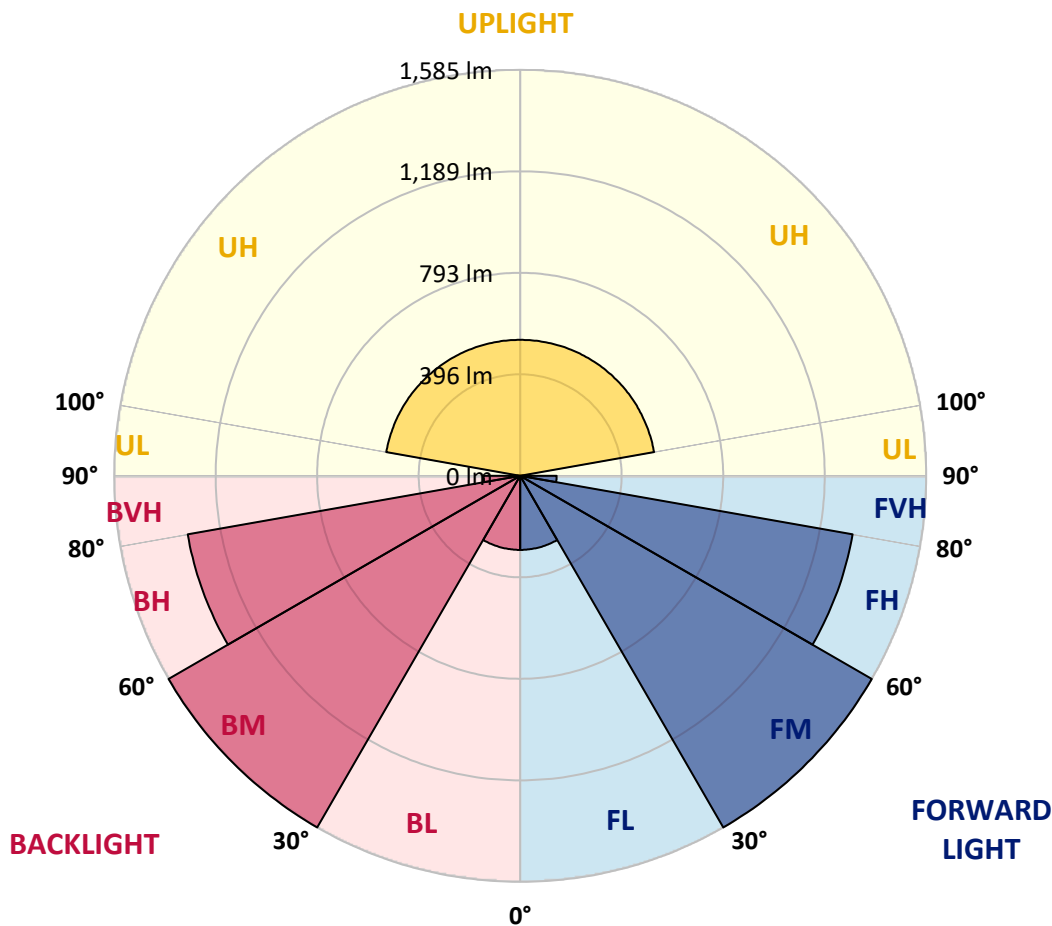
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.2	4.0			
FM (30°-60°)	1585.2	22.0			
FH (60°-80°)	1318.0	18.3			G1/1800
FVH (80°-90°)	142.5	2.0			G2/225
BL (0°-30°)	289.2	4.0	B1/500		
BM (30°-60°)	1585.2	22.0	B2/2500		
BH (60°-80°)	1318.0	18.3	B3/2500		G1/1800
BVH (80°-90°)	142.5	2.0			G2/225
UL (90°-100°)	12.1	0.2		U2/50	
UH (100°-180°)	530.9	7.4		U4/1000	

BUG Rating: B3-U4-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3
2.5°	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
5°	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
7.5°	548.8	548.8	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3
10°	548.8	548.8	554.3	554.3	559.8	559.8	559.8	554.3	554.3	548.8	548.8
12.5°	559.8	559.8	559.8	565.3	570.8	570.8	570.8	565.3	565.3	559.8	559.8
15°	576.3	581.8	581.8	587.2	592.7	592.7	592.7	587.2	587.2	581.8	581.8
17.5°	609.2	609.2	609.2	614.7	620.2	625.7	625.7	614.7	614.7	609.2	614.7
20°	642.1	647.6	647.6	653.1	658.6	664.1	658.6	653.1	647.6	647.6	647.6
22.5°	691.5	691.5	697.0	697.0	708.0	708.0	708.0	697.0	697.0	697.0	697.0
25°	746.4	746.4	751.9	757.4	768.4	768.4	762.9	751.9	751.9	751.9	757.4
27.5°	812.3	812.3	817.7	817.7	828.7	828.7	823.2	817.7	817.7	817.7	823.2
30°	872.6	872.6	883.6	889.1	894.6	894.6	894.6	883.6	883.6	878.1	878.1
32.5°	927.5	933.0	938.5	955.0	965.9	960.4	965.9	955.0	944.0	938.5	938.5
35°	987.9	993.4	1004.3	1020.8	1037.3	1037.3	1037.3	1020.8	1009.8	998.9	1004.3
37.5°	1059.2	1059.2	1075.7	1092.2	1114.1	1119.6	1114.1	1097.6	1081.2	1070.2	1070.2
40°	1136.1	1136.1	1152.5	1169.0	1196.4	1201.9	1196.4	1174.5	1152.5	1147.0	1147.0
42.5°	1212.9	1212.9	1234.9	1251.3	1284.2	1295.2	1284.2	1256.8	1234.9	1218.4	1223.9
45°	1295.2	1300.7	1328.2	1361.1	1399.5	1416.0	1399.5	1366.6	1333.6	1300.7	1300.7
47.5°	1388.5	1388.5	1421.5	1459.9	1503.8	1520.2	1498.3	1465.4	1421.5	1394.0	1394.0
50°	1448.9	1454.4	1498.3	1547.7	1602.6	1613.5	1597.1	1547.7	1498.3	1459.9	1454.4
52.5°	1509.3	1514.8	1564.1	1635.5	1690.4	1706.8	1684.9	1635.5	1564.1	1514.8	1514.8
55°	1547.7	1558.7	1613.5	1690.4	1750.7	1778.2	1745.3	1690.4	1608.1	1553.2	1547.7
57.5°	1553.2	1564.1	1619.0	1712.3	1772.7	1805.6	1778.2	1706.8	1619.0	1558.7	1553.2
60°	1542.2	1547.7	1602.6	1701.4	1772.7	1794.7	1772.7	1695.9	1597.1	1547.7	1536.7
62.5°	1514.8	1525.7	1580.6	1662.9	1745.3	1761.7	1739.8	1657.4	1575.1	1514.8	1503.8
65°	1426.9	1437.9	1520.2	1602.6	1673.9	1690.4	1673.9	1602.6	1514.8	1426.9	1416.0
67.5°	1328.2	1333.6	1416.0	1514.8	1580.6	1608.1	1580.6	1520.2	1410.5	1328.2	1317.2
70°	1223.9	1229.4	1295.2	1399.5	1465.4	1498.3	1470.8	1405.0	1289.7	1218.4	1212.9
72.5°	1103.1	1103.1	1169.0	1251.3	1317.2	1350.1	1328.2	1245.8	1158.0	1086.7	1075.7
75°	938.5	944.0	1015.3	1075.7	1147.0	1169.0	1147.0	1081.2	998.9	927.5	916.5
77.5°	768.4	773.8	834.2	883.6	949.5	965.9	949.5	894.6	817.7	757.4	751.9
80°	581.8	587.2	636.6	680.5	735.4	757.4	740.9	686.0	625.7	570.8	554.3
82.5°	378.7	384.2	433.6	466.5	515.9	532.4	521.4	472.0	422.6	367.7	362.2
85°	170.1	175.6	219.5	247.0	285.4	301.9	290.9	247.0	208.6	159.2	148.2
87.5°	16.5	16.5	16.5	16.5	16.5	22.0	22.0	16.5	16.5	16.5	16.5
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)