

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: P833906

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833906
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-SG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH SOLITE GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6751.8 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B2 - U4 - G1

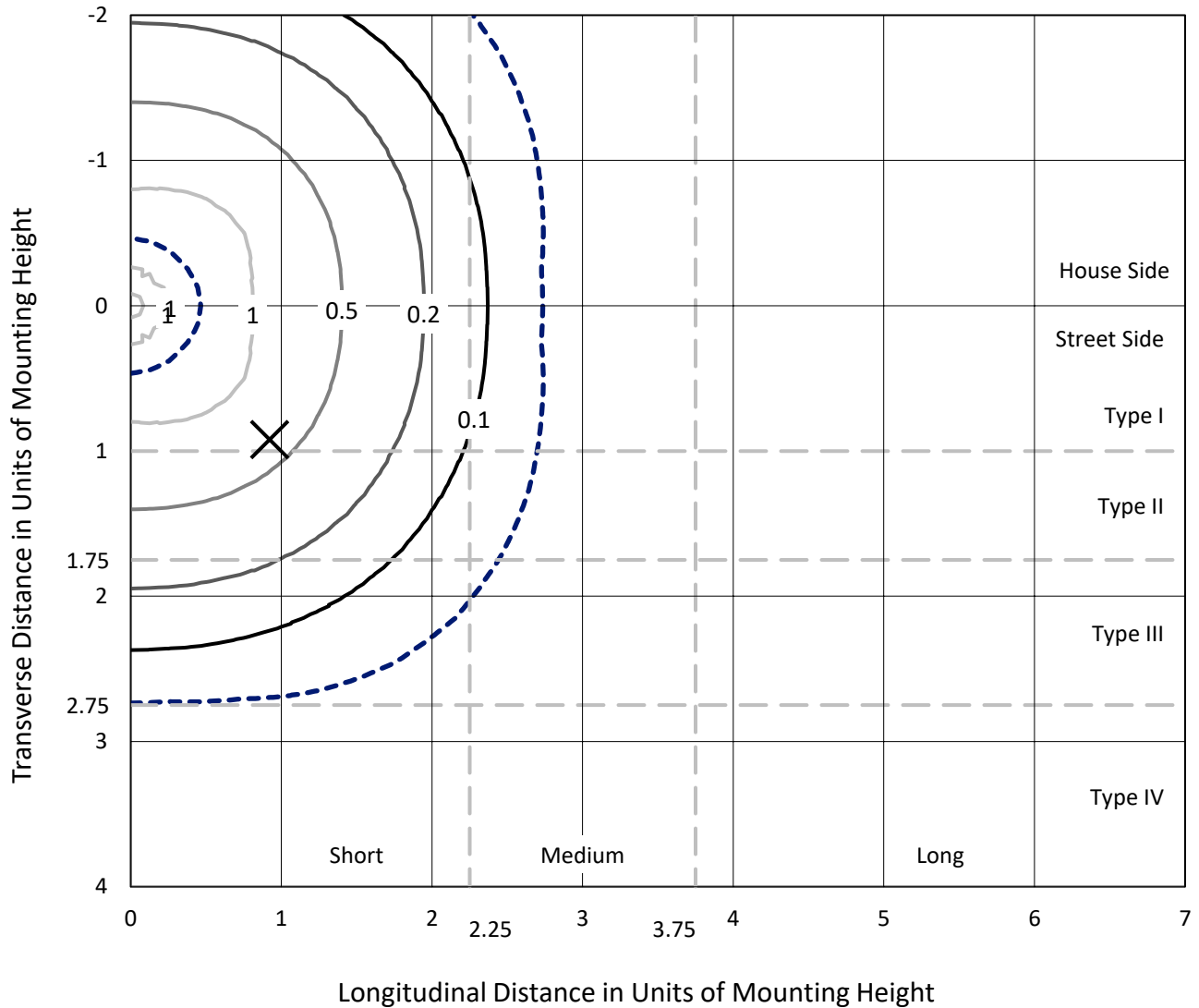
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

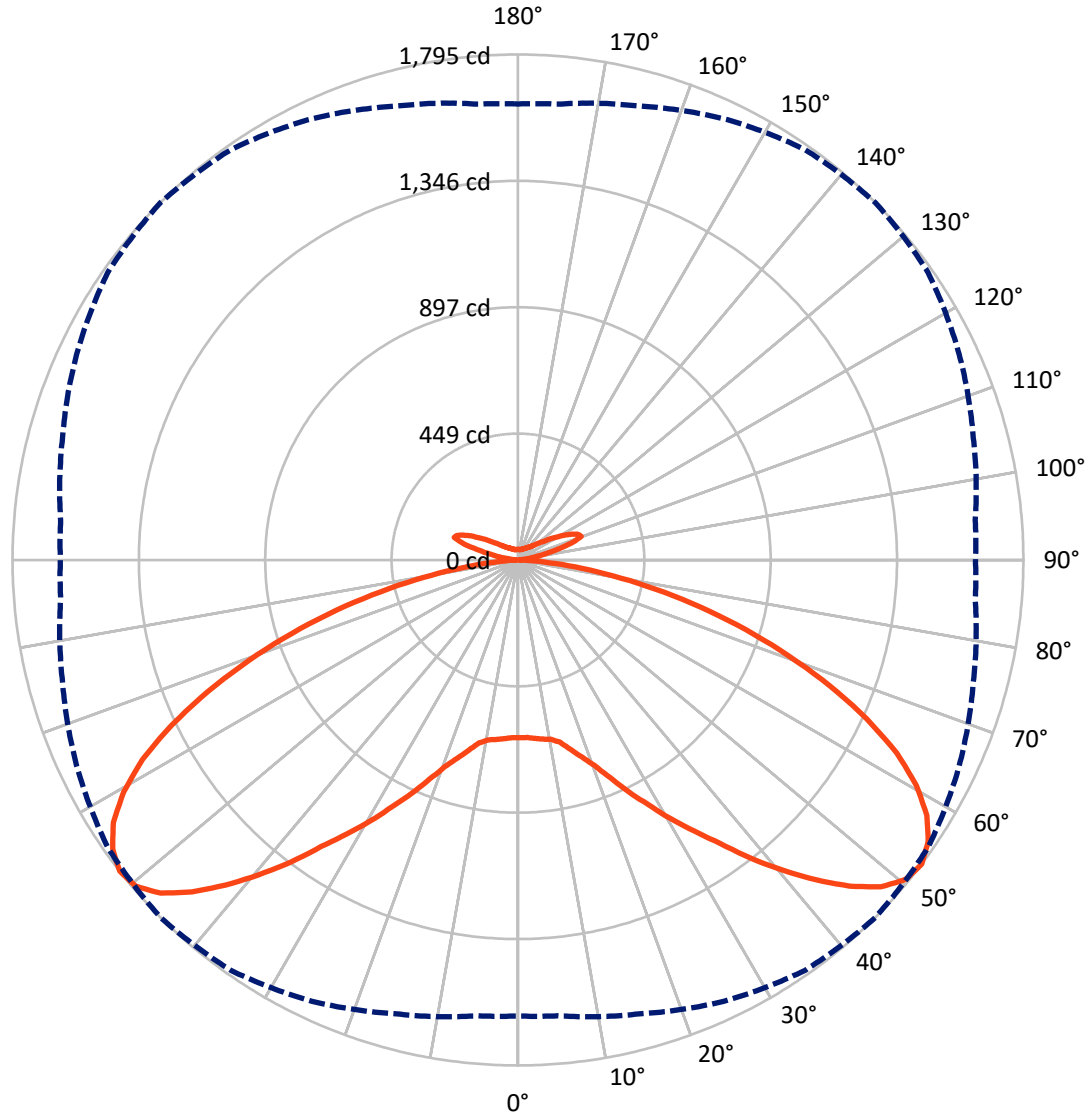
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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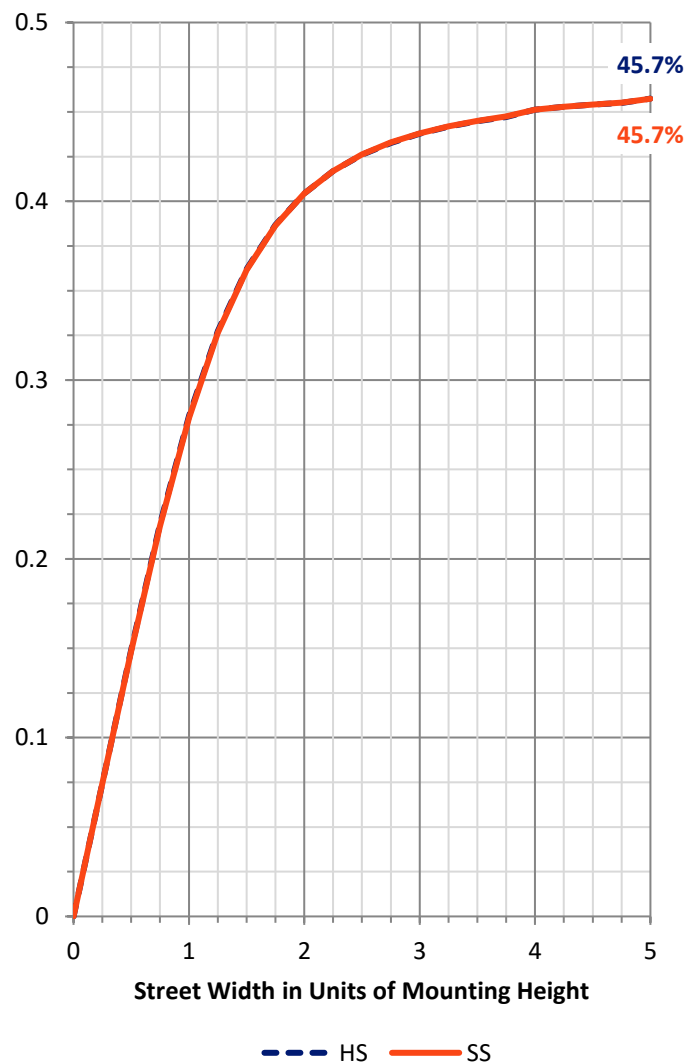
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3104.4	271.5	3375.9
	% Fixture	46.0	4.0	50.0
Street Side	Lumens	3104.4	271.5	3375.9
	% Fixture	46.0	4.0	50.0
Total	Lumens	6208.7	543.0	6751.8
	% Fixture	92.0	8.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	0.9
10°-20°	200.3	3.0
20°-30°	422.8	6.3
30°-40°	772.3	11.4
40°-50°	1229.5	18.2
50°-60°	1486.7	22.0
60°-70°	1250.1	18.5
70°-80°	662.6	9.8
80°-90°	123.3	1.8
90°-100°	12.1	0.2
100°-110°	123.2	1.8
110°-120°	180.1	2.7
120°-130°	104.5	1.5
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°	6208.7	92.0
0°-180°	6751.8	100.0

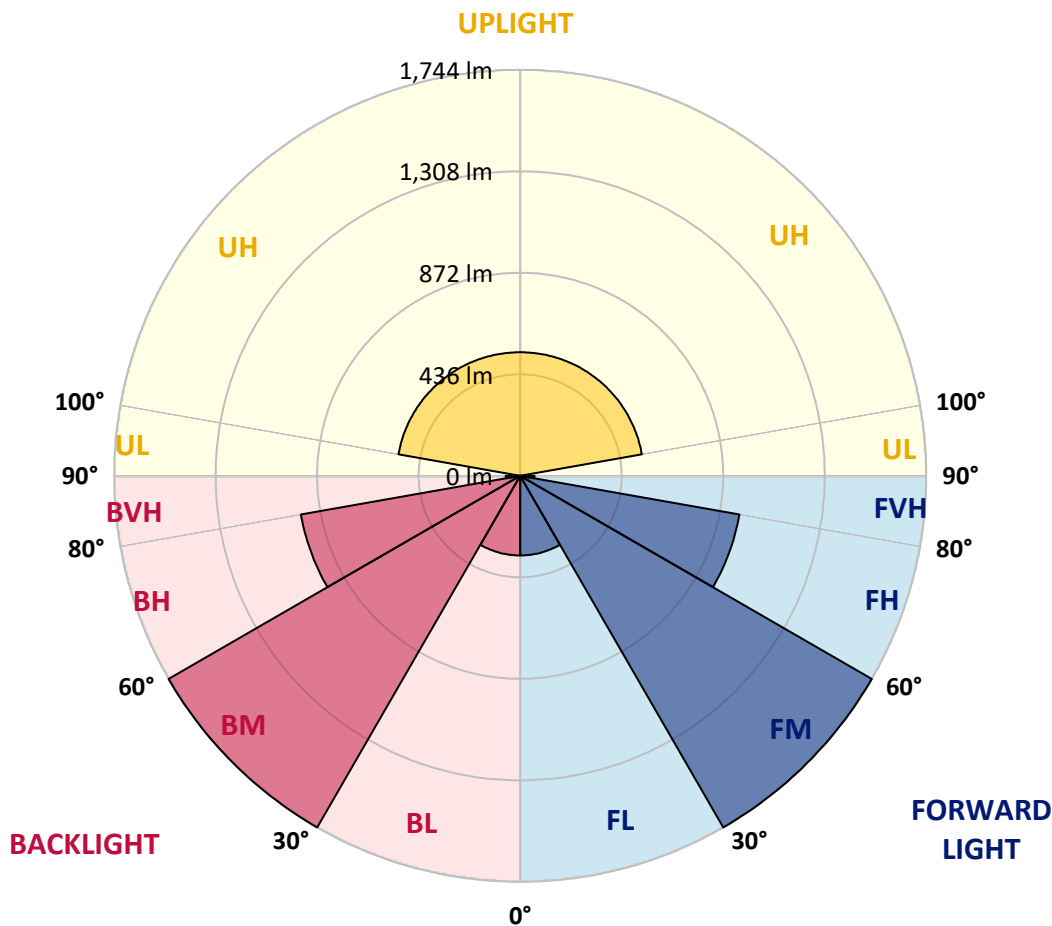


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.0	5.1			
FM (30°-60°)	1744.3	25.8			
FH (60°-80°)	956.4	14.2			G1/1800
FVH (80°-90°)	61.7	0.9			G1/100
BL (0°-30°)	342.0	5.1	B1/500		
BM (30°-60°)	1744.3	25.8	B2/2500		
BH (60°-80°)	956.4	14.2	B2/1000		G1/1800
BVH (80°-90°)	61.7	0.9			G1/100
UL (90°-100°)	12.1	0.2		U2/50	
UH (100°-180°)	530.9	7.9		U4/1000	

BUG Rating: B2-U4-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
2.5°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2	631.2
5°	636.6	636.6	631.2	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
7.5°	636.6	636.6	636.6	642.1	642.1	642.1	642.1	636.6	636.6	636.6	636.6
10°	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6	647.6
12.5°	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1	664.1
15°	691.5	691.5	691.5	691.5	697.0	697.0	697.0	691.5	691.5	691.5	691.5
17.5°	724.5	724.5	729.9	729.9	735.4	735.4	735.4	729.9	724.5	729.9	724.5
20°	773.8	773.8	773.8	779.3	784.8	779.3	784.8	773.8	773.8	773.8	773.8
22.5°	828.7	828.7	828.7	834.2	839.7	839.7	839.7	828.7	828.7	828.7	828.7
25°	894.6	894.6	894.6	900.1	905.6	911.1	911.1	900.1	894.6	894.6	889.1
27.5°	960.4	960.4	971.4	976.9	982.4	982.4	982.4	971.4	965.9	965.9	965.9
30°	1037.3	1037.3	1048.3	1053.7	1064.7	1064.7	1064.7	1048.3	1042.8	1037.3	1037.3
32.5°	1108.6	1114.1	1125.1	1136.1	1147.0	1147.0	1152.5	1130.6	1119.6	1114.1	1114.1
35°	1185.5	1191.0	1201.9	1218.4	1229.4	1234.9	1240.3	1218.4	1201.9	1196.4	1196.4
37.5°	1273.3	1278.8	1295.2	1311.7	1333.6	1344.6	1350.1	1317.2	1289.7	1278.8	1278.8
40°	1372.1	1377.6	1394.0	1416.0	1437.9	1448.9	1454.4	1421.5	1394.0	1383.0	1377.6
42.5°	1454.4	1465.4	1481.8	1514.8	1536.7	1553.2	1553.2	1514.8	1481.8	1465.4	1465.4
45°	1531.2	1542.2	1569.6	1602.6	1635.5	1652.0	1646.5	1608.1	1569.6	1547.7	1542.2
47.5°	1591.6	1602.6	1635.5	1673.9	1717.8	1734.3	1728.8	1684.9	1635.5	1608.1	1602.6
50°	1624.5	1630.0	1668.4	1723.3	1767.2	1783.7	1772.7	1728.8	1673.9	1635.5	1630.0
52.5°	1619.0	1624.5	1668.4	1728.8	1778.2	1794.7	1778.2	1728.8	1673.9	1630.0	1624.5
55°	1586.1	1591.6	1635.5	1701.4	1750.8	1767.2	1750.8	1701.4	1641.0	1597.1	1591.6
57.5°	1525.7	1531.2	1575.1	1641.0	1695.9	1712.3	1690.4	1635.5	1575.1	1531.2	1531.2
60°	1437.9	1443.4	1487.3	1558.7	1608.1	1624.5	1597.1	1553.2	1492.8	1443.4	1437.9
62.5°	1322.7	1322.7	1372.1	1443.4	1487.3	1509.3	1481.8	1432.4	1377.6	1322.7	1328.2
65°	1185.5	1180.0	1229.4	1295.2	1344.6	1361.1	1333.6	1289.7	1234.9	1185.5	1185.5
67.5°	1042.8	1042.8	1081.2	1136.1	1180.0	1196.4	1169.0	1130.6	1086.7	1042.8	1042.8
70°	889.1	889.1	916.5	971.4	1009.8	1020.8	1004.4	965.9	927.5	889.1	889.1
72.5°	735.4	729.9	757.4	801.3	834.2	845.2	828.7	806.8	762.9	735.4	735.4
75°	581.8	576.3	592.7	631.2	658.6	669.6	653.1	636.6	603.7	581.8	581.8
77.5°	433.6	428.1	444.5	477.5	493.9	499.4	488.5	477.5	450.0	433.6	433.6
80°	296.4	290.9	301.9	323.8	340.3	340.3	334.8	329.3	307.3	296.4	301.9
82.5°	175.6	170.1	181.1	197.6	208.6	203.1	203.1	197.6	181.1	175.6	175.6
85°	76.8	71.3	76.8	87.8	98.8	93.3	93.3	93.3	82.3	76.8	76.8
87.5°	11.0	11.0	11.0	16.5	22.0	16.5	16.5	16.5	11.0	11.0	11.0
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)