

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: P833903

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833903
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-CG-UPL2
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6877.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G1

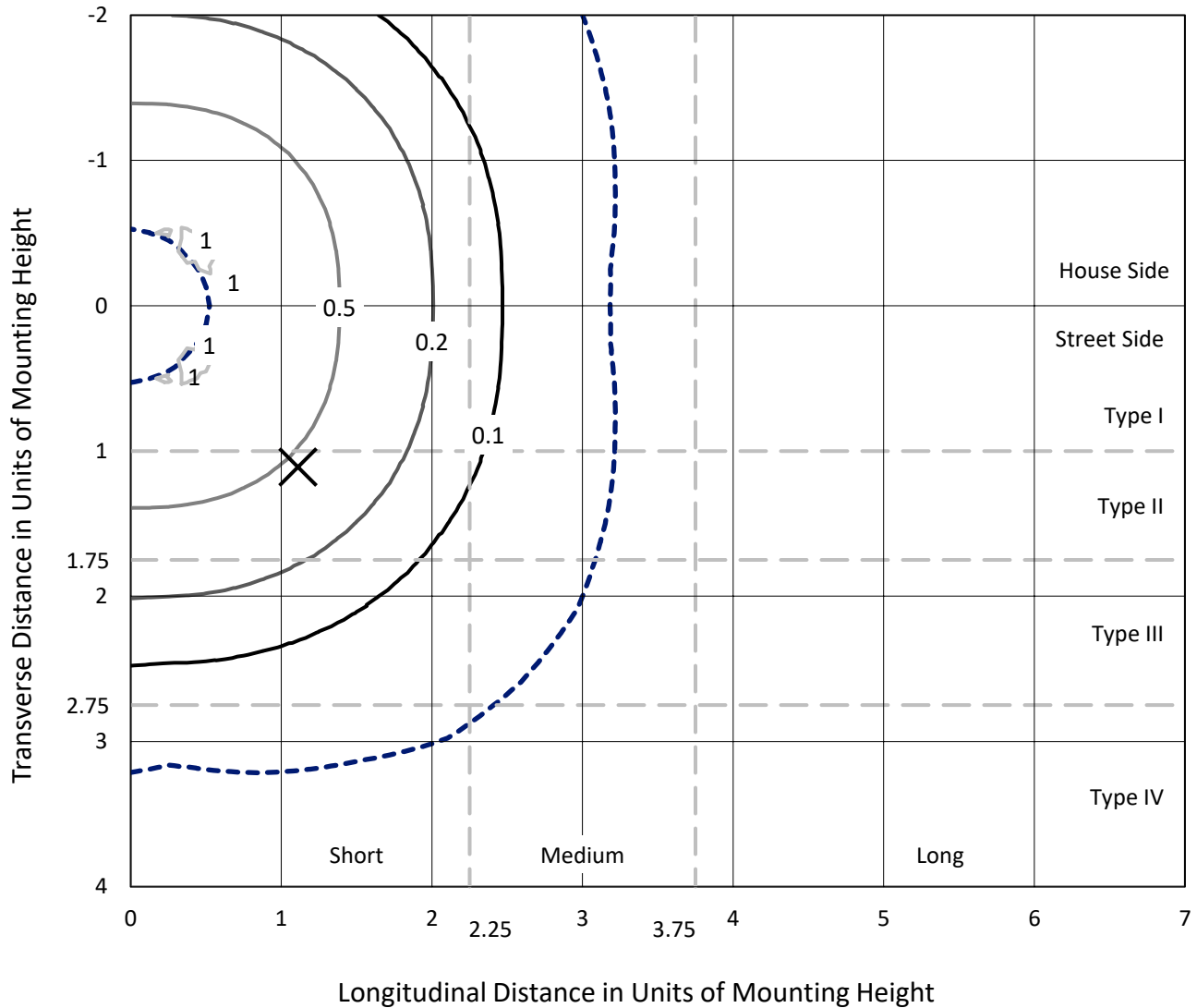
Input Watts (W): 63.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

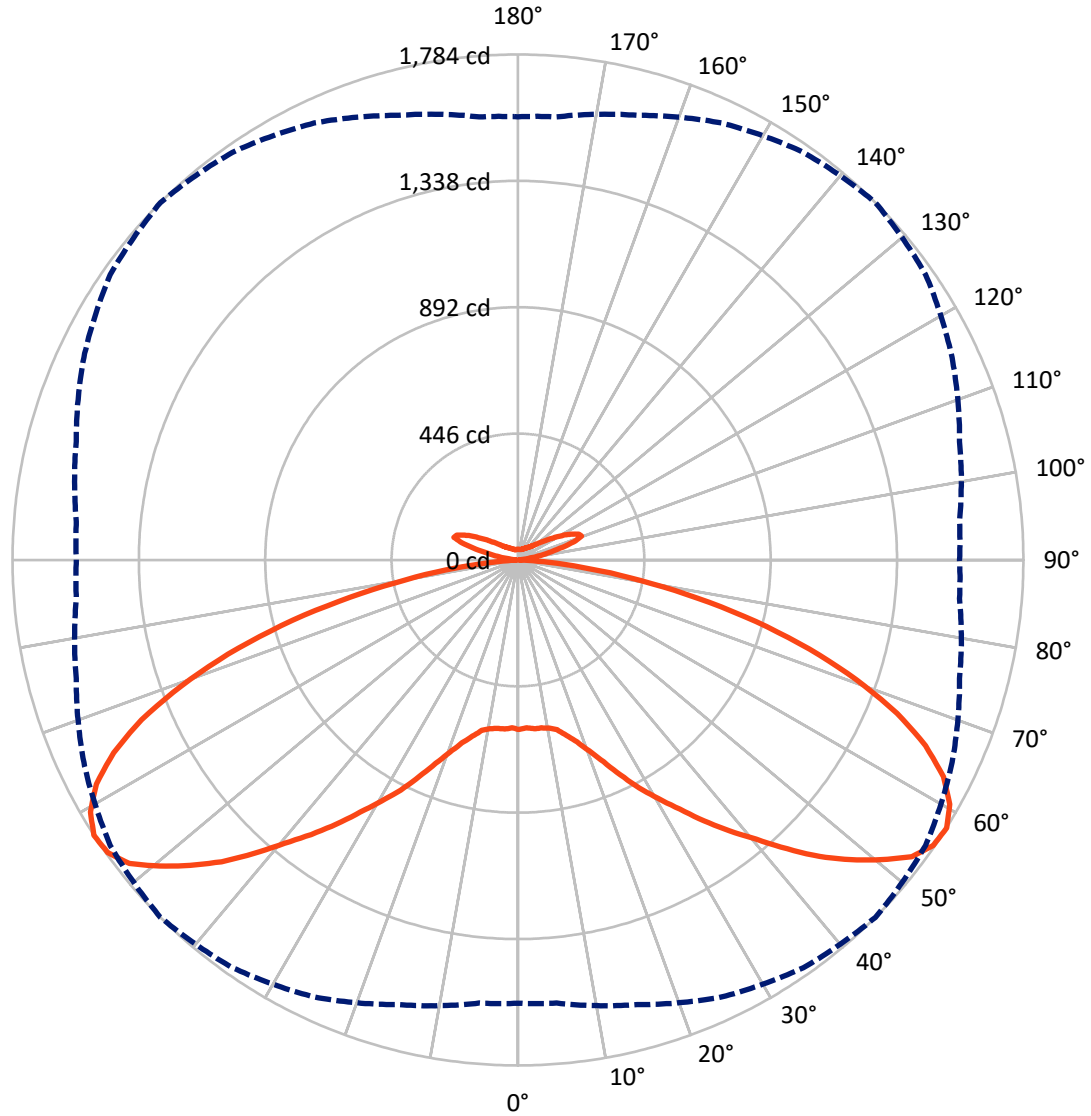
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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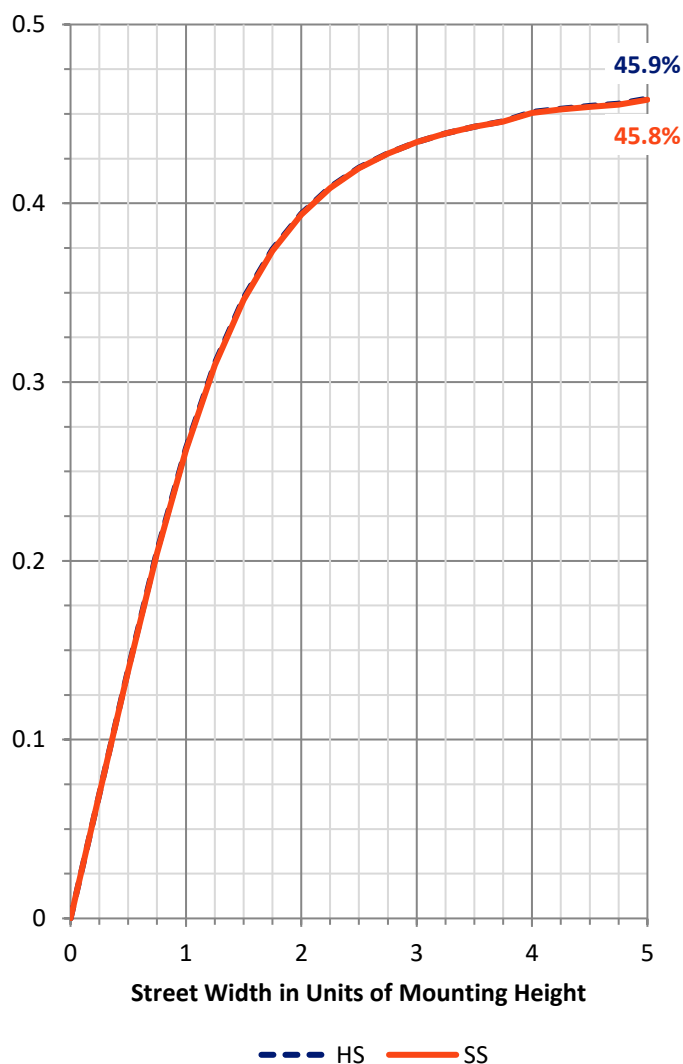
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3167.4	271.5	3438.9
	% Fixture	46.1	3.9	50.0
Street Side	Lumens	3167.4	271.5	3438.9
	% Fixture	46.1	3.9	50.0
Total	Lumens	6334.7	543.0	6877.8
	% Fixture	92.1	7.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	0.8
10°-20°	184.5	2.7
20°-30°	388.2	5.6
30°-40°	699.8	10.2
40°-50°	1112.4	16.2
50°-60°	1484.1	21.6
60°-70°	1433.9	20.8
70°-80°	830.9	12.1
80°-90°	143.9	2.1
90°-100°	12.1	0.2
100°-110°	123.2	1.8
110°-120°	180.1	2.6
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°	6334.7	92.1
0°-180°	6877.8	100.0

Coefficient of Utilization

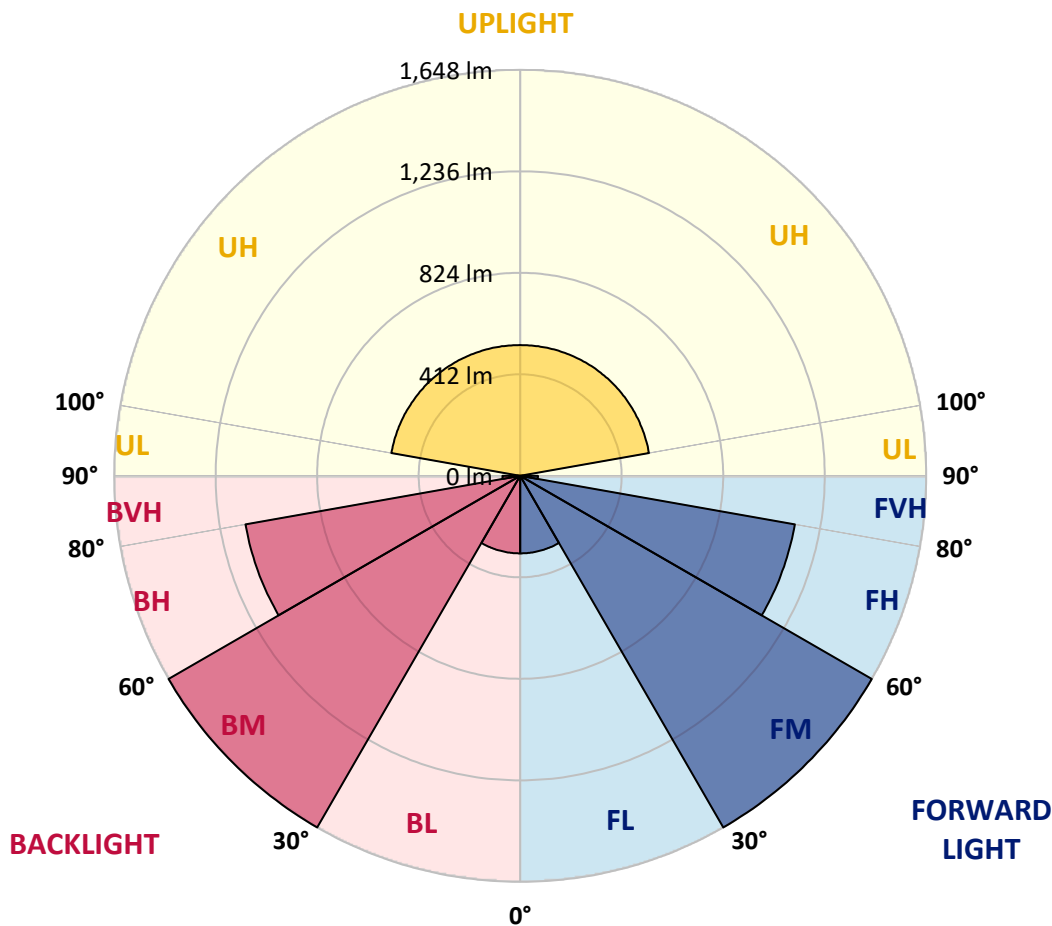


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.9	4.6			
FM (30°-60°)	1648.1	24.0			
FH (60°-80°)	1132.4	16.5			G1/1800
FVH (80°-90°)	72.0	1.0			G1/100
BL (0°-30°)	314.9	4.6	B1/500		
BM (30°-60°)	1648.1	24.0	B2/2500		
BH (60°-80°)	1132.4	16.5	B3/2500		G1/1800
BVH (80°-90°)	72.0	1.0			G1/100
UL (90°-100°)	12.1	0.2		U2/50	
UH (100°-180°)	530.9	7.7		U4/1000	

BUG Rating: B3-U4-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
2.5°	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9
5°	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4	598.4
7.5°	592.9	592.9	598.4	598.4	598.4	598.4	598.4	598.4	598.4	592.9	592.9
10°	598.4	598.4	598.4	603.8	603.8	603.8	603.8	603.8	598.4	598.4	598.4
12.5°	609.3	609.3	614.8	614.8	614.8	614.8	614.8	614.8	614.8	609.3	609.3
15°	636.8	636.8	636.8	642.3	642.3	642.3	642.3	642.3	636.8	636.8	636.8
17.5°	664.2	664.2	669.7	669.7	675.2	675.2	675.2	669.7	669.7	669.7	669.7
20°	702.7	702.7	708.1	708.1	713.6	719.1	719.1	713.6	708.1	708.1	708.1
22.5°	752.1	757.6	757.6	757.6	763.0	774.0	768.5	763.0	757.6	757.6	757.6
25°	812.4	817.9	823.4	823.4	828.9	839.9	839.9	823.4	823.4	823.4	823.4
27.5°	883.8	889.3	894.8	894.8	900.3	911.3	905.8	894.8	894.8	889.3	889.3
30°	949.7	955.2	960.7	966.2	971.6	977.1	977.1	966.2	960.7	955.2	949.7
32.5°	1015.6	1015.6	1026.5	1037.5	1048.5	1048.5	1054.0	1037.5	1026.5	1015.6	1010.1
35°	1081.4	1086.9	1092.4	1108.9	1125.3	1130.8	1125.3	1108.9	1092.4	1081.4	1081.4
37.5°	1152.8	1158.3	1163.8	1185.7	1202.2	1213.2	1202.2	1185.7	1163.8	1152.8	1147.3
40°	1229.6	1235.1	1240.6	1268.1	1284.5	1295.5	1279.1	1262.6	1240.6	1229.6	1224.2
42.5°	1301.0	1312.0	1323.0	1355.9	1383.4	1394.3	1377.9	1350.4	1328.5	1301.0	1295.5
45°	1388.8	1399.8	1416.3	1449.2	1476.7	1493.1	1471.2	1443.7	1410.8	1388.8	1383.4
47.5°	1460.2	1471.2	1487.7	1531.6	1570.0	1581.0	1559.0	1526.1	1482.2	1454.7	1449.2
50°	1515.1	1526.1	1559.0	1608.4	1652.3	1663.3	1641.4	1597.4	1548.0	1509.6	1504.1
52.5°	1559.0	1570.0	1608.4	1674.3	1723.7	1740.2	1712.7	1663.3	1597.4	1553.5	1548.0
55°	1581.0	1586.5	1635.9	1707.2	1756.6	1778.6	1751.2	1696.3	1624.9	1575.5	1570.0
57.5°	1564.5	1570.0	1624.9	1701.7	1756.6	1784.1	1756.6	1690.8	1613.9	1564.5	1559.0
60°	1531.6	1531.6	1581.0	1668.8	1734.7	1751.2	1723.7	1657.8	1575.5	1526.1	1520.6
62.5°	1471.2	1465.7	1526.1	1602.9	1668.8	1685.3	1663.3	1597.4	1515.1	1465.7	1460.2
65°	1355.9	1344.9	1432.8	1504.1	1564.5	1581.0	1564.5	1504.1	1427.3	1350.4	1339.4
67.5°	1218.7	1202.2	1284.5	1366.9	1421.8	1443.7	1421.8	1372.4	1284.5	1207.7	1202.2
70°	1075.9	1059.5	1125.3	1196.7	1257.1	1268.1	1246.1	1196.7	1114.4	1065.0	1065.0
72.5°	905.8	889.3	949.7	1004.6	1065.0	1075.9	1054.0	1010.1	949.7	900.3	894.8
75°	719.1	702.7	757.6	801.5	861.9	867.3	856.4	807.0	757.6	708.1	708.1
77.5°	532.5	516.0	559.9	598.4	647.8	647.8	642.3	603.8	559.9	527.0	527.0
80°	351.3	340.3	378.8	395.2	439.2	439.2	433.7	406.2	373.3	351.3	345.8
82.5°	197.6	186.6	219.6	225.1	258.0	258.0	252.5	230.6	208.6	192.1	192.1
85°	76.9	65.9	87.8	93.3	109.8	109.8	104.3	98.8	82.3	71.4	71.4
87.5°	5.5	5.5	11.0	11.0	16.5	16.5	16.5	11.0	11.0	5.5	5.5
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)