

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: P833904

Luminaire Tested: **TTN-D3-735-U-WQ-CG-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833904
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-UPL3
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: 7087.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G1

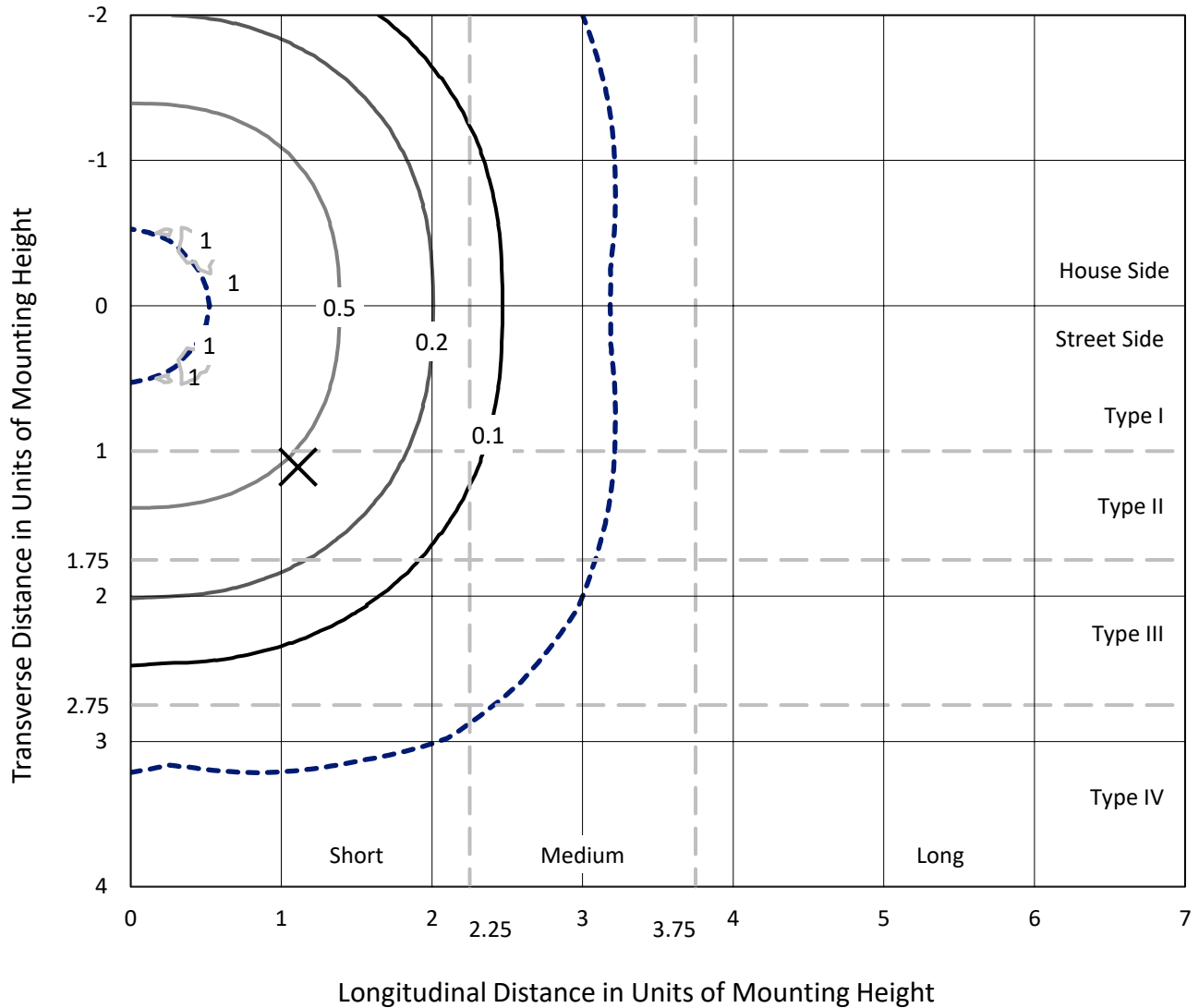
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

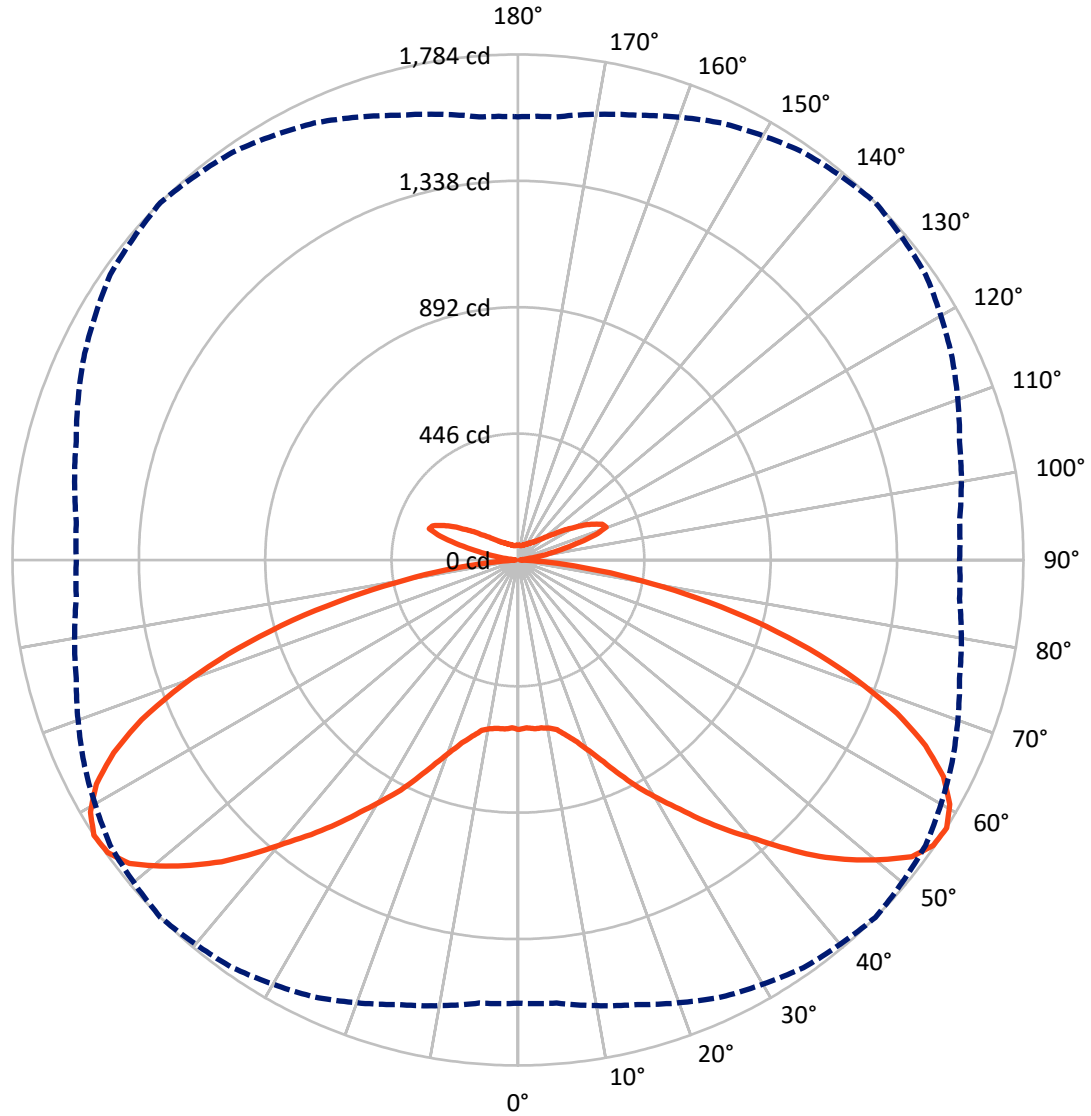
✕ Max cd
 - - - 1/2 Max cd



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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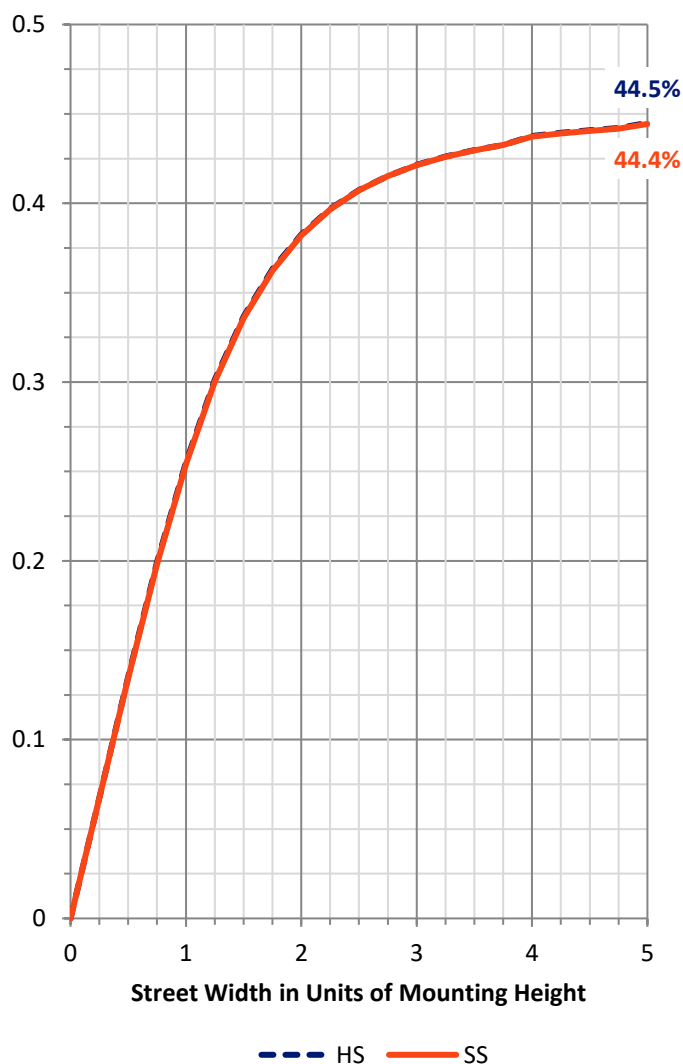
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3167.5	376.3	3543.8
	% Fixture	44.7	5.3	50.0
Street Side	Lumens	3167.5	376.3	3543.8
	% Fixture	44.7	5.3	50.0
Total	Lumens	6335.0	752.7	7087.7
	% Fixture	89.4	10.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	0.8
10°-20°	184.5	2.6
20°-30°	388.2	5.5
30°-40°	699.8	9.9
40°-50°	1112.4	15.7
50°-60°	1484.1	20.9
60°-70°	1433.9	20.2
70°-80°	830.9	11.7
80°-90°	144.2	2.0
90°-100°	16.8	0.2
100°-110°	170.7	2.4
110°-120°	249.6	3.5
120°-130°	144.9	2.0
130°-140°	76.7	1.1
140°-150°	45.6	0.6
150°-160°	28.1	0.4
160°-170°	15.3	0.2
170°-180°	5.0	0.1
0°-90°	6335.0	89.4
0°-180°	7087.7	100.0

Coefficient of Utilization

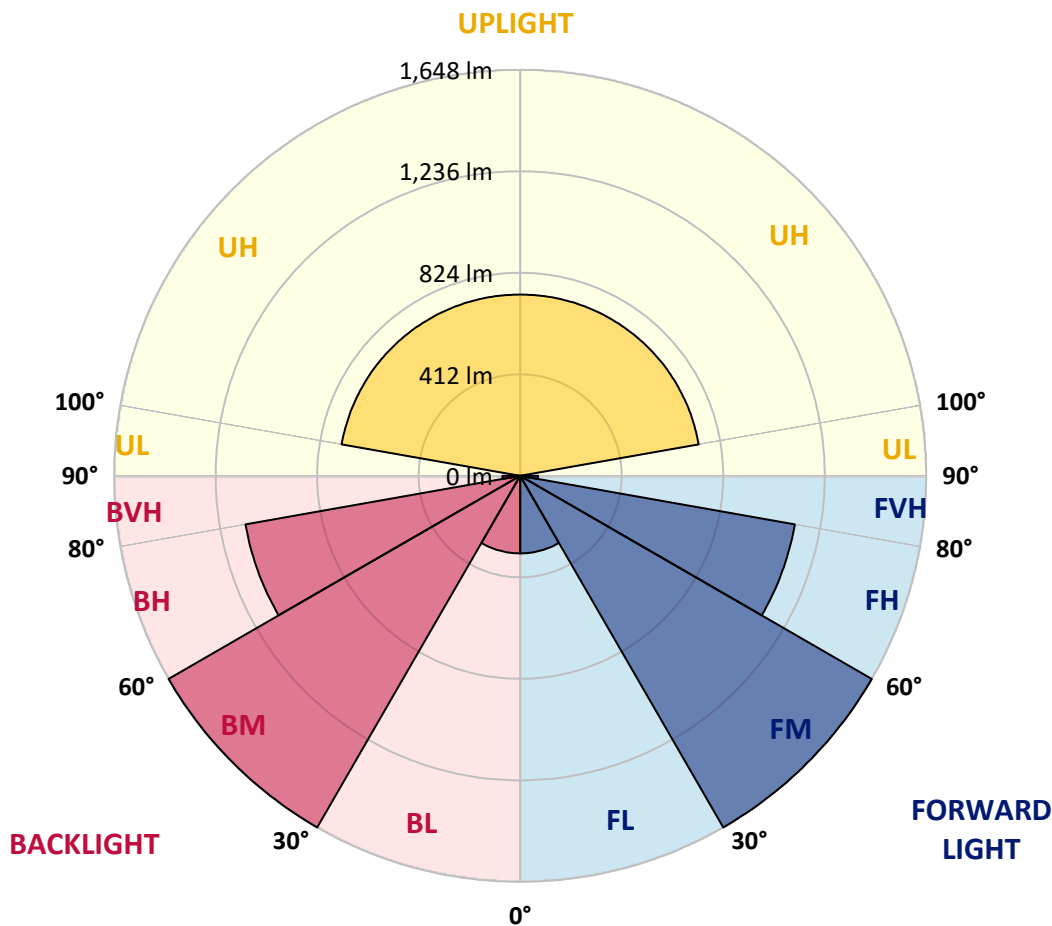


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.9	4.4			
FM (30°-60°)	1648.1	23.3			
FH (60°-80°)	1132.4	16.0			G1/1800
FVH (80°-90°)	72.1	1.0			G1/100
BL (0°-30°)	314.9	4.4	B1/500		
BM (30°-60°)	1648.1	23.3	B2/2500		
BH (60°-80°)	1132.4	16.0	B3/2500		G1/1800
BVH (80°-90°)	72.1	1.0			G1/100
UL (90°-100°)	16.8	0.2		U2/50	
UH (100°-180°)	735.8	10.4		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°	6.4	6.4	7.7	7.7	7.7	7.7	7.7	7.7	7.7	6.4	6.4
92.5°	6.4	6.4	6.4	9.0	10.3	9.0	10.3	7.7	7.7	6.4	6.4
95°	7.7	7.7	9.0	11.6	14.2	15.5	15.5	9.0	9.0	7.7	7.7
97.5°	10.3	11.6	11.6	14.2	23.2	42.5	25.8	12.9	12.9	11.6	10.3
100°	16.7	18.0	18.0	32.2	68.2	91.4	65.7	33.5	24.5	18.0	18.0
102.5°	54.1	56.7	69.5	104.3	154.5	140.4	118.5	112.0	77.3	61.8	59.2
105°	137.8	136.5	146.8	173.8	216.3	212.5	195.7	177.7	153.2	141.6	141.6
107.5°	181.6	181.6	190.6	213.8	245.9	287.1	291.0	230.5	202.2	189.3	188.0
110°	204.7	204.7	212.5	231.8	274.3	332.2	329.6	284.6	249.8	233.1	230.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	209.9	211.2	221.5	251.1	297.5	323.2	311.6	293.6	278.1	265.3	262.7
115°	217.6	217.6	229.2	257.5	283.3	293.6	280.7	266.5	256.2	251.1	253.7
117.5°	215.0	218.9	221.5	236.9	253.7	261.4	255.0	235.6	227.9	225.3	221.5
120°	199.6	199.6	202.2	209.9	218.9	222.8	220.2	207.3	200.9	199.6	197.0
122.5°	177.7	179.0	177.7	181.6	188.0	191.9	189.3	179.0	176.4	176.4	173.8
125°	155.8	155.8	154.5	157.1	161.0	159.7	161.0	155.8	154.5	154.5	153.2
127.5°	140.4	139.1	136.5	137.8	139.1	139.1	140.4	135.2	136.5	137.8	136.5
130°	124.9	124.9	122.3	122.3	122.3	119.8	122.3	119.8	121.0	122.3	123.6
132.5°	110.7	110.7	106.9	105.6	105.6	105.6	106.9	105.6	108.2	110.7	110.7
135°	99.2	99.2	95.3	96.6	96.6	95.3	96.6	95.3	97.9	99.2	99.2
137.5°	90.1	90.1	87.6	87.6	87.6	86.3	87.6	87.6	88.8	91.4	92.7
140°	82.4	82.4	81.1	81.1	79.8	81.1	81.1	81.1	82.4	83.7	83.7
142.5°	78.5	77.3	76.0	74.7	76.0	76.0	76.0	74.7	76.0	78.5	78.5
145°	72.1	72.1	70.8	70.8	70.8	72.1	70.8	70.8	72.1	72.1	73.4
147.5°	68.2	68.2	67.0	68.2	68.2	68.2	68.2	67.0	68.2	68.2	69.5
150°	67.0	65.7	64.4	65.7	65.7	64.4	64.4	64.4	64.4	65.7	65.7
152.5°	63.1	63.1	61.8	63.1	61.8	61.8	61.8	61.8	61.8	63.1	64.4
155°	60.5	60.5	59.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
157.5°	57.9	59.2	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.2	59.2
160°	56.7	56.7	56.7	56.7	55.4	55.4	55.4	56.7	56.7	56.7	57.9
162.5°	55.4	55.4	55.4	55.4	54.1	54.1	54.1	54.1	55.4	55.4	56.7
165°	55.4	54.1	54.1	54.1	52.8	52.8	52.8	52.8	54.1	55.4	54.1
167.5°	52.8	52.8	52.8	52.8	52.8	51.5	51.5	52.8	52.8	52.8	54.1
170°	52.8	52.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.8
172.5°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	51.5	51.5	52.8	52.8
175°	52.8	52.8	52.8	52.8	51.5	51.5	51.5	52.8	52.8	52.8	51.5
177.5°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8	52.8	52.8	52.8
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

(END OF REPORT)