

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: P833895

Luminaire Tested: **TTN-D3-735-U-MQ-UPL3**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833895
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-MQ-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7746.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

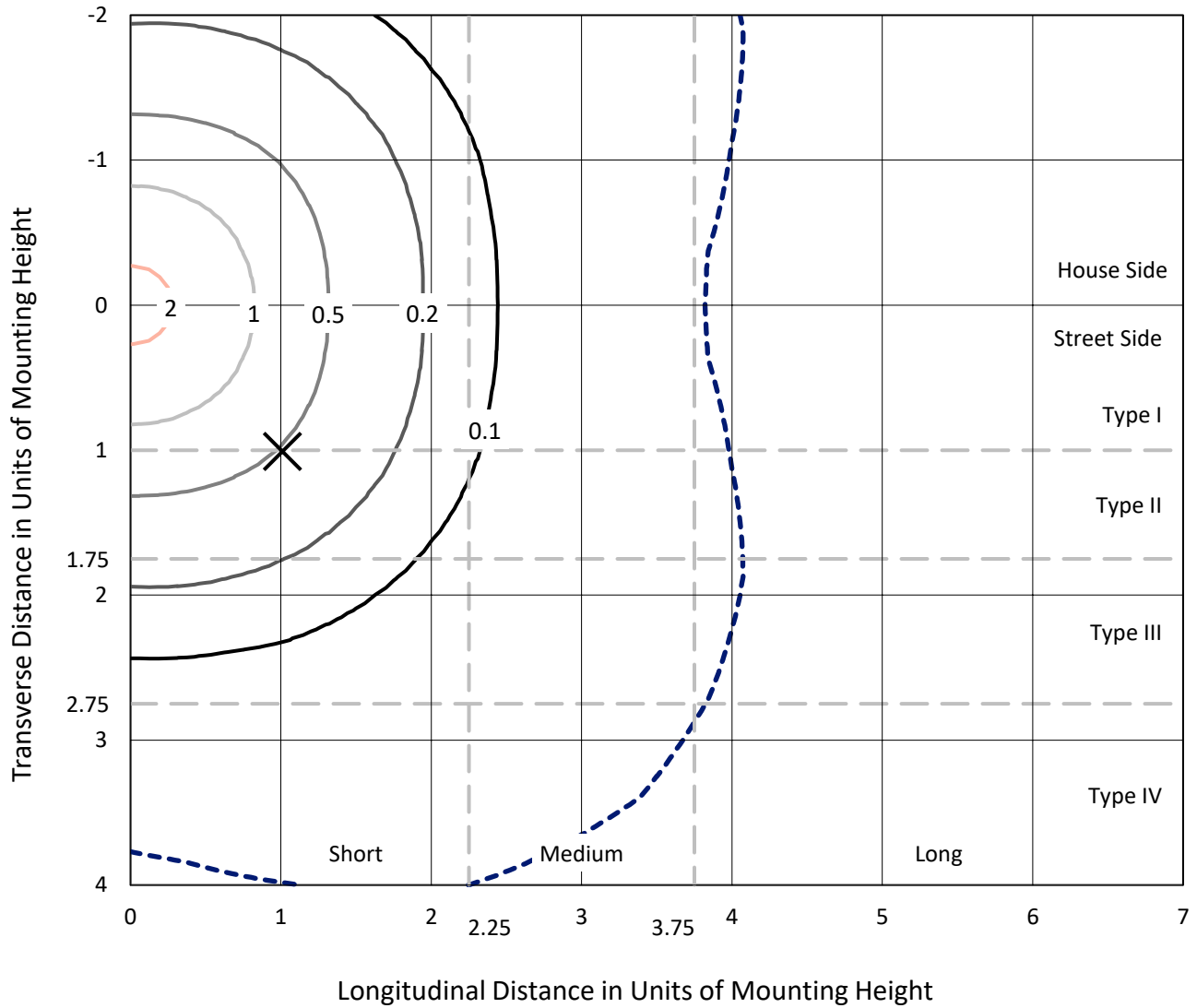
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P833895
 CATALOG NUMBER: TTN-D3-735-U-MQ-UPL3

Iso-Footcandle Lines of Horizontal Illumination

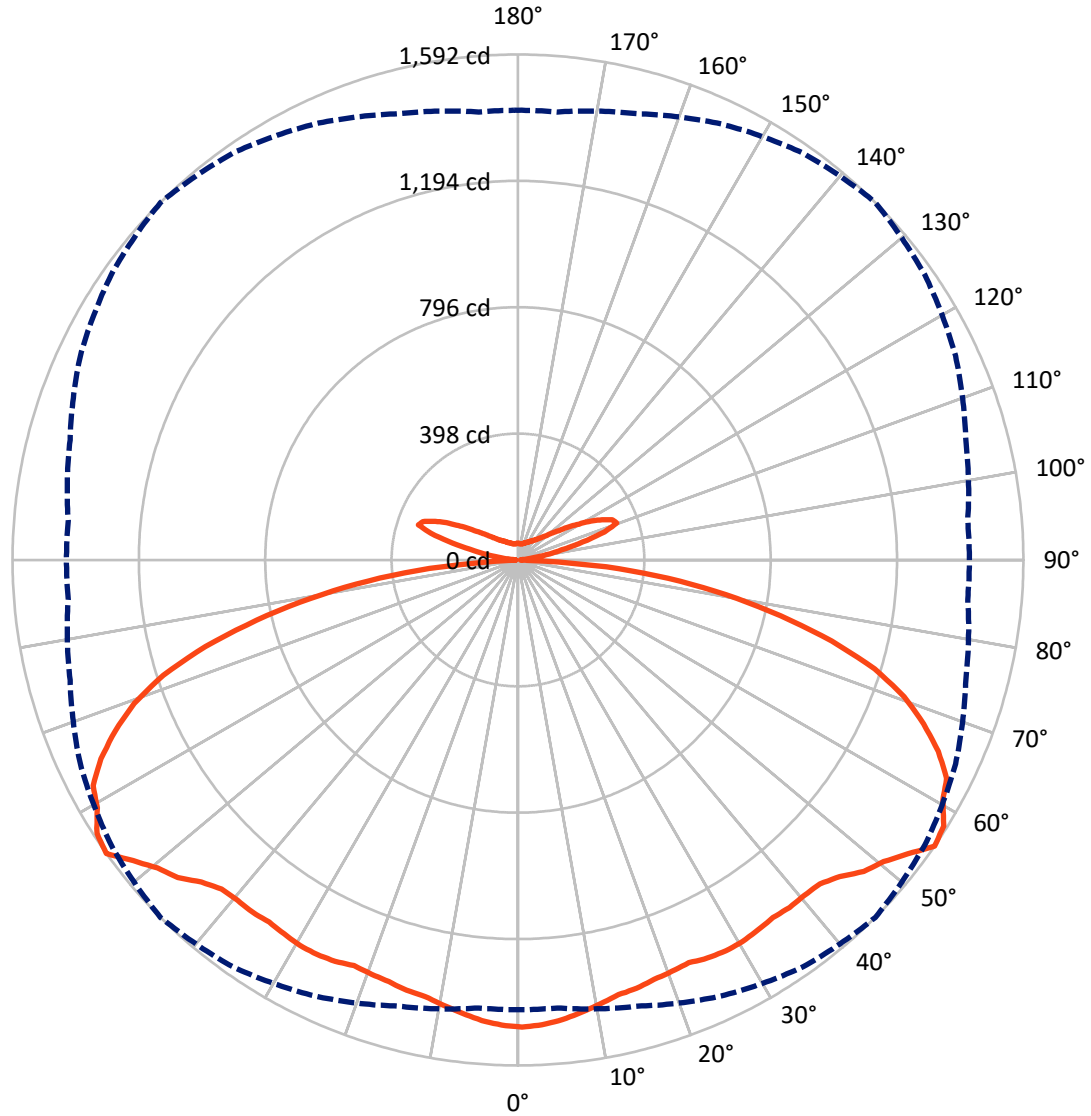
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

REPORT NUMBER: P833895
CATALOG NUMBER: TTN-D3-735-U-MQ-UPL3

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P833895

CATALOG NUMBER: TTN-D3-735-U-MQ-UPL3

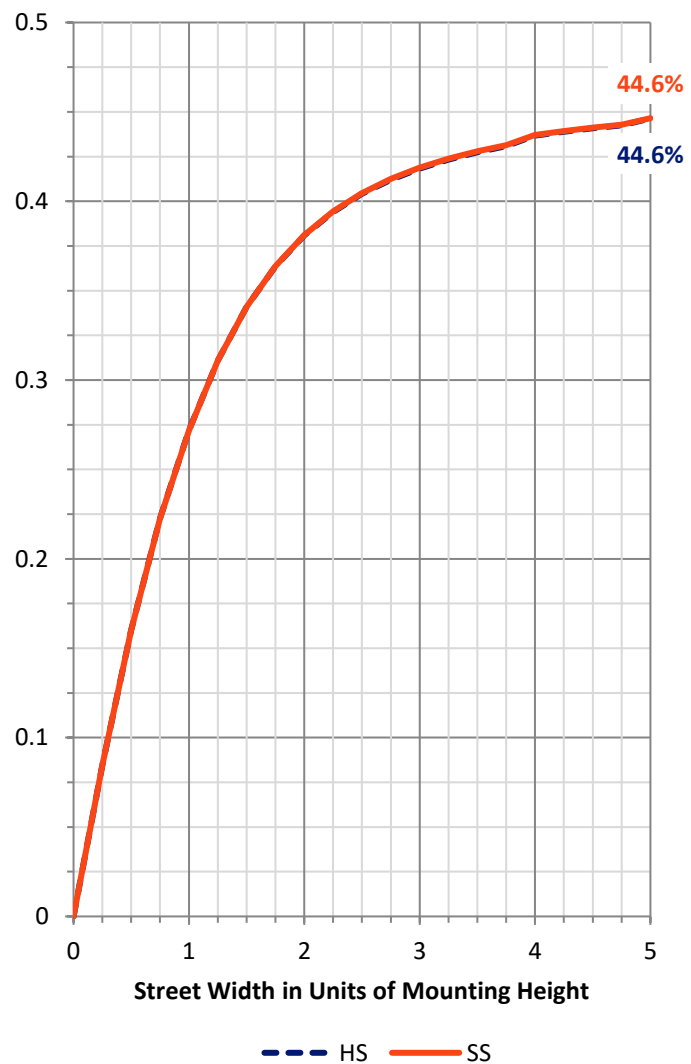
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3497.0	376.3	3873.3
	% Fixture	45.1	4.9	50.0
Street Side	Lumens	3497.0	376.3	3873.3
	% Fixture	45.1	4.9	50.0
Total	Lumens	6994.0	752.7	7746.7
	% Fixture	90.3	9.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.8
10°-20°	395.3	5.1
20°-30°	638.9	8.2
30°-40°	864.6	11.2
40°-50°	1083.0	14.0
50°-60°	1327.1	17.1
60°-70°	1330.4	17.2
70°-80°	960.0	12.4
80°-90°	257.0	3.3
90°-100°	16.8	0.2
100°-110°	170.7	2.2
110°-120°	249.6	3.2
120°-130°	144.9	1.9
130°-140°	76.7	1.0
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°	6994.0	90.3
0°-180°	7746.7	100.0

Coefficient of Utilization



REPORT NUMBER: P833895

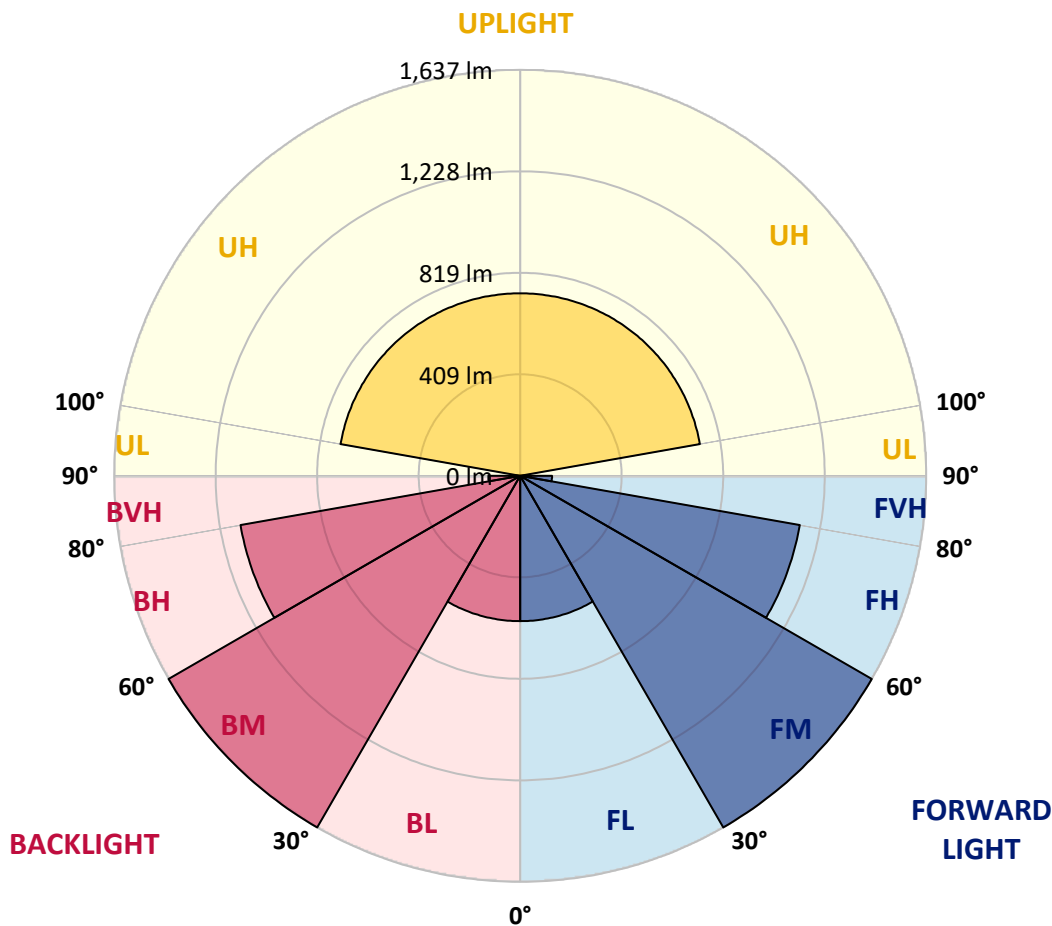
CATALOG NUMBER: TTN-D3-735-U-MQ-UPL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.0	7.6			
FM (30°-60°)	1637.3	21.1			
FH (60°-80°)	1145.2	14.8			G1/1800
FVH (80°-90°)	128.5	1.7			G2/225
BL (0°-30°)	586.0	7.6	B2/1000		
BM (30°-60°)	1637.3	21.1	B2/2500		
BH (60°-80°)	1145.2	14.8	B3/2500		G1/1800
BVH (80°-90°)	128.5	1.7			G2/225
UL (90°-100°)	16.8	0.2		U2/50	
UH (100°-180°)	735.8	9.5		U4/1000	

BUG Rating: B3-U4-G2

Type V Short





REPORT NUMBER: P833895

CATALOG NUMBER: TTN-D3-735-U-MQ-UPL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3
2.5°	1465.8	1465.8	1465.8	1460.3	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8
5°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
7.5°	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3
10°	1416.4	1416.4	1416.4	1416.4	1421.9	1421.9	1421.9	1421.9	1416.4	1416.4	1416.4
12.5°	1399.9	1399.9	1399.9	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1399.9
15°	1394.4	1394.4	1394.4	1394.4	1399.9	1399.9	1399.9	1399.9	1394.4	1394.4	1394.4
17.5°	1383.4	1383.4	1383.4	1388.9	1388.9	1388.9	1388.9	1388.9	1383.4	1383.4	1383.4
20°	1372.5	1372.5	1377.9	1377.9	1383.4	1383.4	1383.4	1377.9	1377.9	1372.5	1377.9
22.5°	1372.5	1372.5	1372.5	1377.9	1377.9	1377.9	1377.9	1372.5	1372.5	1372.5	1372.5
25°	1372.5	1372.5	1377.9	1383.4	1383.4	1388.9	1383.4	1377.9	1372.5	1372.5	1372.5
27.5°	1377.9	1377.9	1383.4	1388.9	1388.9	1394.4	1388.9	1383.4	1377.9	1377.9	1377.9
30°	1377.9	1377.9	1383.4	1388.9	1388.9	1394.4	1388.9	1383.4	1377.9	1377.9	1377.9
32.5°	1367.0	1372.5	1377.9	1383.4	1388.9	1388.9	1388.9	1383.4	1377.9	1372.5	1372.5
35°	1361.5	1367.0	1372.5	1377.9	1383.4	1383.4	1383.4	1377.9	1372.5	1367.0	1367.0
37.5°	1356.0	1356.0	1367.0	1372.5	1377.9	1388.9	1383.4	1372.5	1367.0	1361.5	1361.5
40°	1350.5	1356.0	1361.5	1372.5	1377.9	1388.9	1383.4	1372.5	1361.5	1356.0	1356.0
42.5°	1350.5	1350.5	1361.5	1372.5	1383.4	1394.4	1388.9	1377.9	1361.5	1356.0	1350.5
45°	1356.0	1361.5	1377.9	1399.9	1410.9	1421.9	1416.4	1399.9	1372.5	1361.5	1356.0
47.5°	1377.9	1383.4	1399.9	1421.9	1449.3	1465.8	1449.3	1421.9	1399.9	1383.4	1377.9
50°	1388.9	1394.4	1421.9	1449.3	1487.7	1493.2	1487.7	1449.3	1421.9	1394.4	1394.4
52.5°	1410.9	1410.9	1443.8	1493.2	1526.2	1537.2	1526.2	1498.7	1443.8	1416.4	1410.9
55°	1416.4	1416.4	1454.8	1515.2	1564.6	1592.0	1564.6	1520.7	1460.3	1421.9	1421.9
57.5°	1383.4	1394.4	1443.8	1504.2	1564.6	1581.1	1564.6	1509.7	1449.3	1399.9	1394.4
60°	1345.0	1361.5	1405.4	1476.8	1520.7	1537.2	1526.2	1476.8	1410.9	1361.5	1356.0
62.5°	1306.6	1328.5	1377.9	1432.8	1498.7	1515.2	1498.7	1432.8	1377.9	1328.5	1306.6
65°	1224.2	1246.2	1317.6	1383.4	1443.8	1454.8	1449.3	1383.4	1317.6	1246.2	1235.2
67.5°	1141.9	1158.4	1207.8	1312.1	1361.5	1377.9	1367.0	1306.6	1213.3	1158.4	1152.9
70°	1054.0	1070.5	1114.4	1213.3	1262.7	1290.1	1268.1	1213.3	1114.4	1070.5	1065.0
72.5°	938.8	960.7	1010.1	1098.0	1147.4	1174.8	1152.9	1098.0	1010.1	955.2	944.3
75°	801.5	818.0	878.4	949.7	999.1	1021.1	1004.6	955.2	878.4	818.0	812.5
77.5°	653.3	669.8	724.7	796.0	823.5	845.4	829.0	790.5	724.7	669.8	664.3
80°	494.1	510.6	560.0	614.9	642.3	664.3	647.8	609.4	560.0	510.6	505.1
82.5°	323.9	340.4	384.3	428.2	455.7	477.6	461.1	422.7	389.8	340.4	334.9
85°	137.2	153.7	192.1	236.1	258.0	280.0	263.5	230.6	192.1	159.2	153.7
87.5°	11.0	16.5	16.5	22.0	16.5	27.4	16.5	16.5	16.5	16.5	16.5
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)