

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: P833910

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833910
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-UPL3
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: 7422.7 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

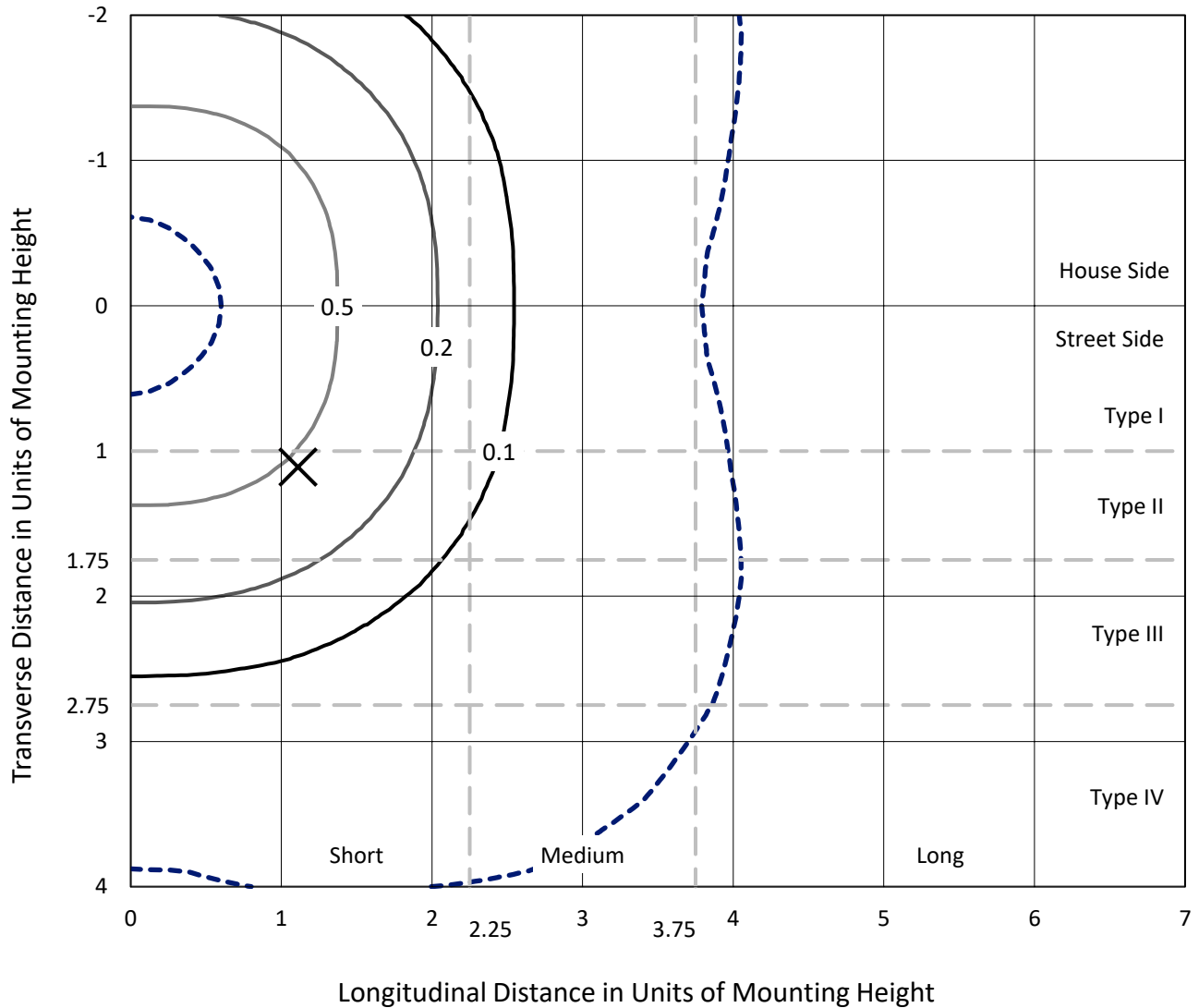
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

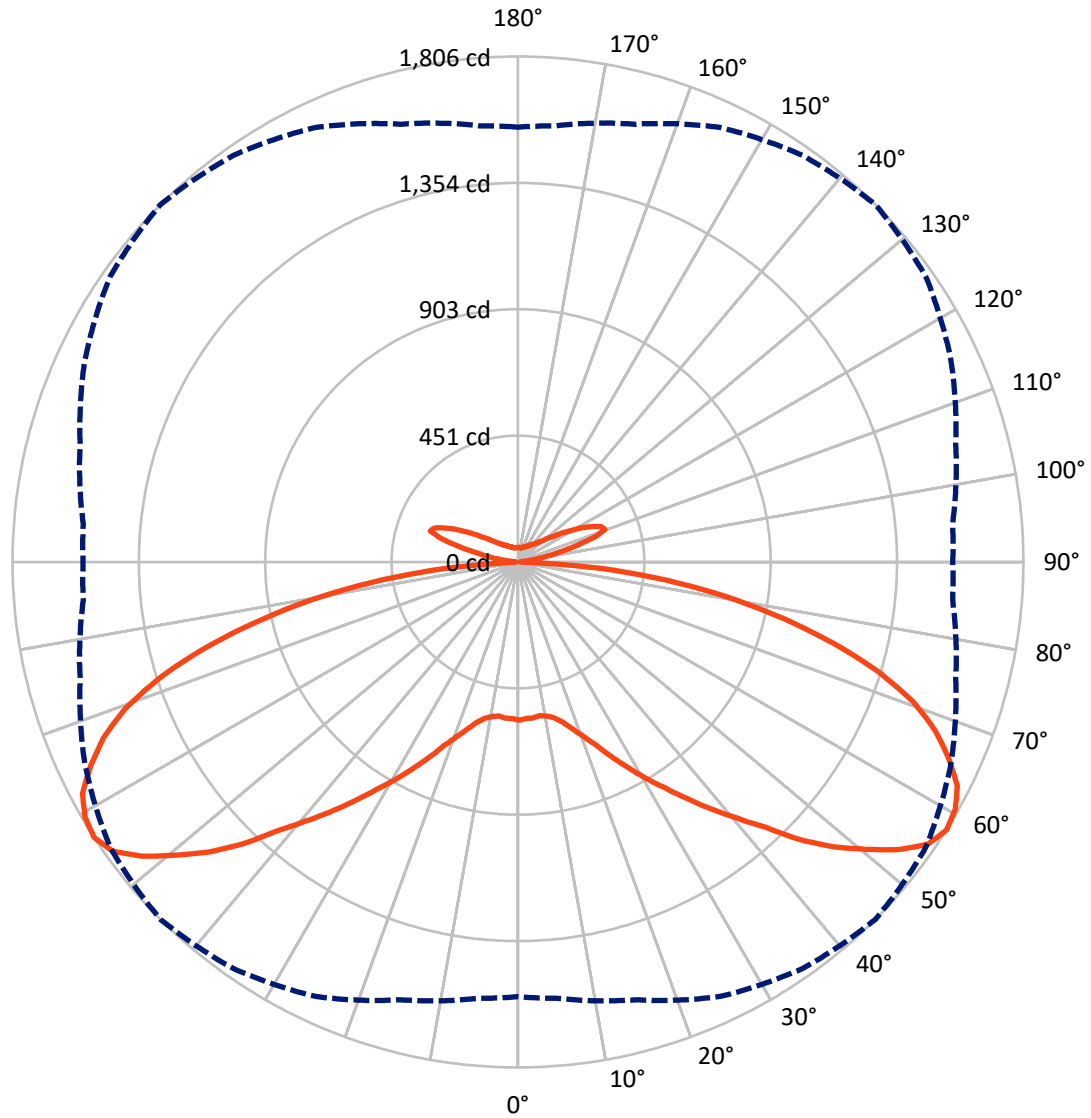
✕ Max cd
 - - - 1/2 Max cd



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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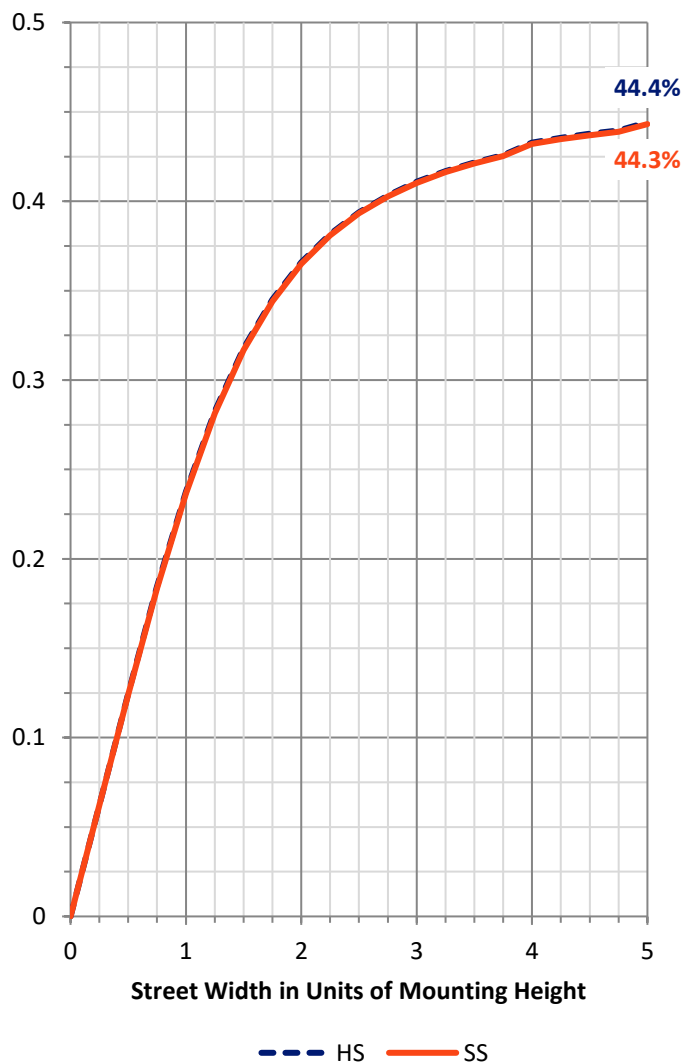
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3335.0	376.3	3711.3
	% Fixture	44.9	5.1	50.0
Street Side	Lumens	3335.0	376.3	3711.3
	% Fixture	44.9	5.1	50.0
Total	Lumens	6670.0	752.7	7422.7
	% Fixture	89.9	10.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.7
10°-20°	169.6	2.3
20°-30°	355.8	4.8
30°-40°	645.4	8.7
40°-50°	1052.2	14.2
50°-60°	1472.7	19.8
60°-70°	1537.5	20.7
70°-80°	1098.5	14.8
80°-90°	285.2	3.8
90°-100°	16.8	0.2
100°-110°	170.7	2.3
110°-120°	249.6	3.4
120°-130°	144.9	2.0
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°	6670.0	89.9
0°-180°	7422.7	100.0

Coefficient of Utilization



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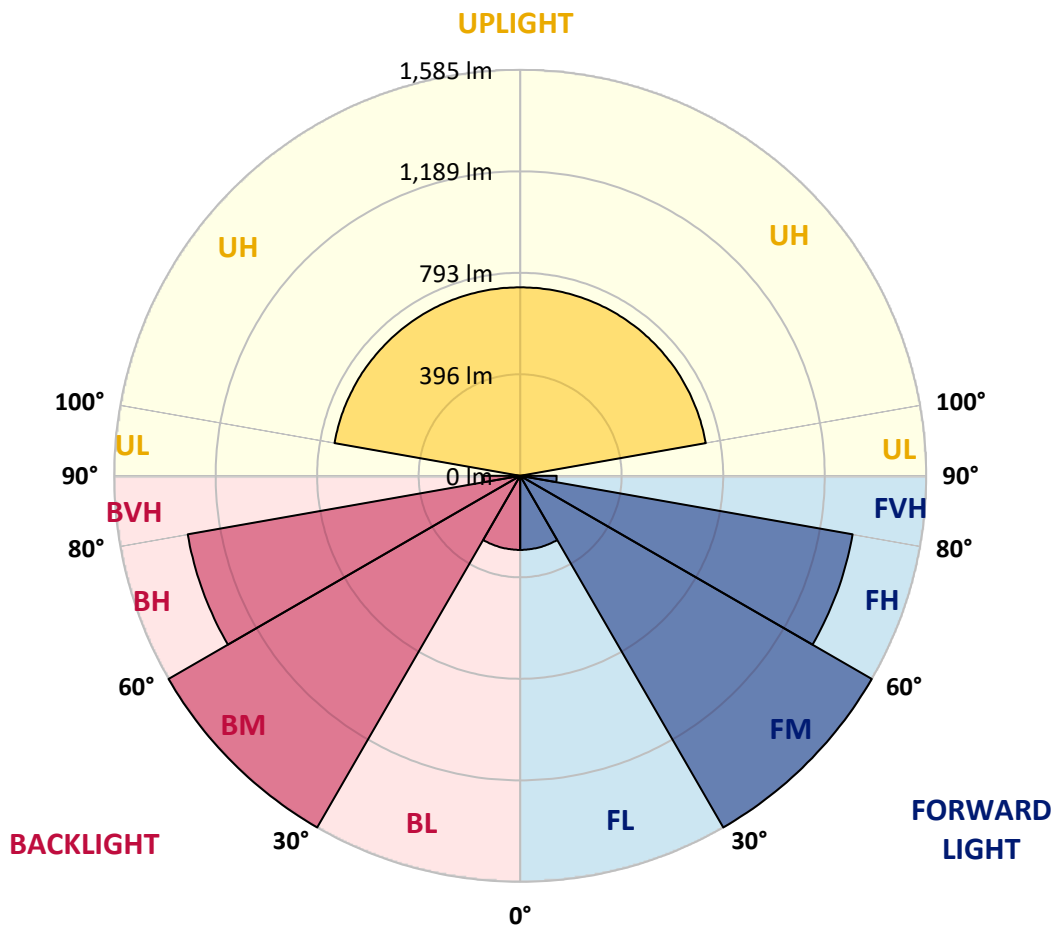
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.2	3.9			
FM (30°-60°)	1585.2	21.4			
FH (60°-80°)	1318.0	17.8			G1/1800
FVH (80°-90°)	142.6	1.9			G2/225
BL (0°-30°)	289.2	3.9	B1/500		
BM (30°-60°)	1585.2	21.4	B2/2500		
BH (60°-80°)	1318.0	17.8	B3/2500		G1/1800
BVH (80°-90°)	142.6	1.9			G2/225
UL (90°-100°)	16.8	0.2		U2/50	
UH (100°-180°)	735.8	9.9		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°	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)