

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: P833898

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

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833898
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-RW-CG-UPL3
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6851.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type II - Short
BUG Rating: B3 - U4 - G3

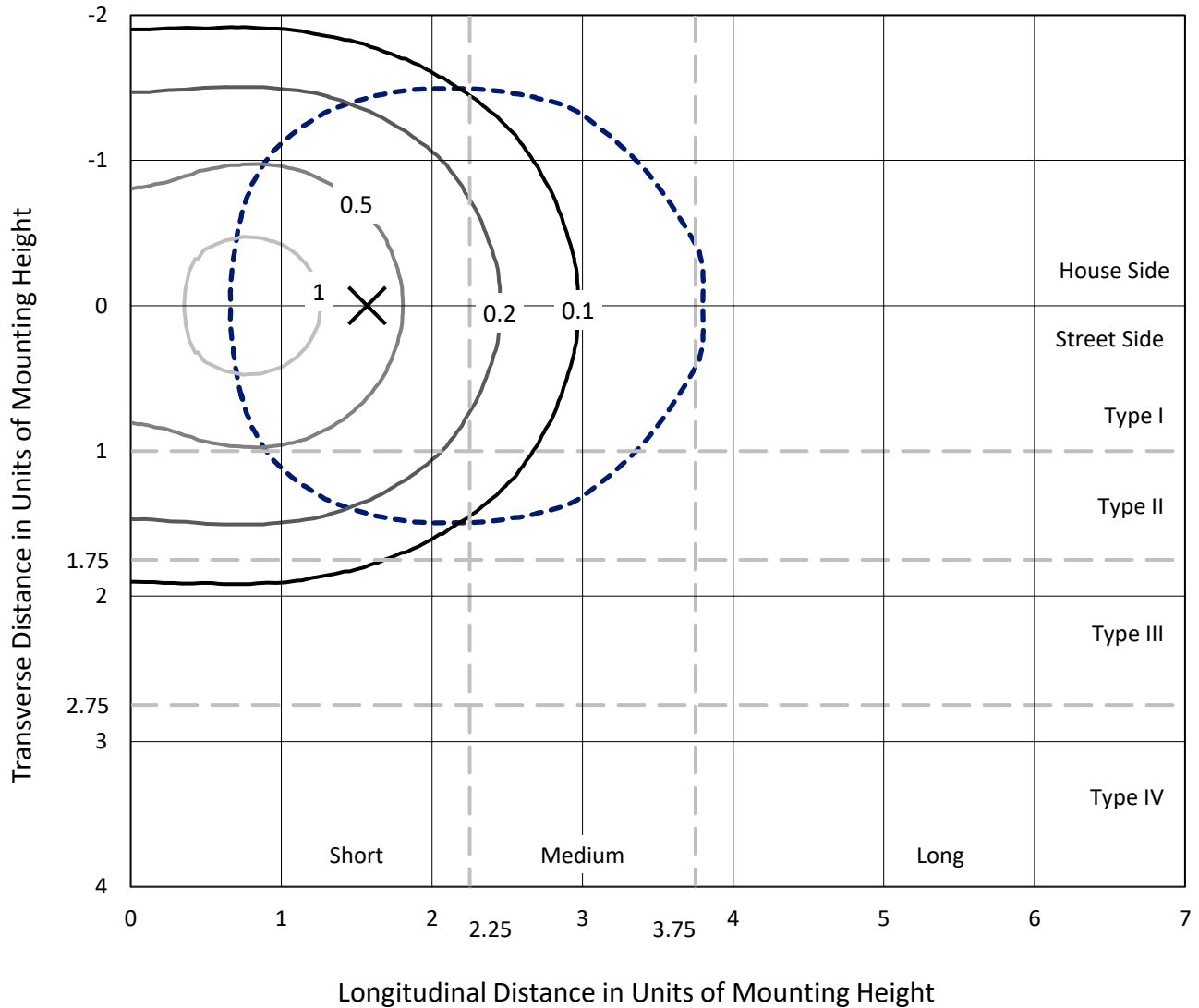
Input Watts (W): 66.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

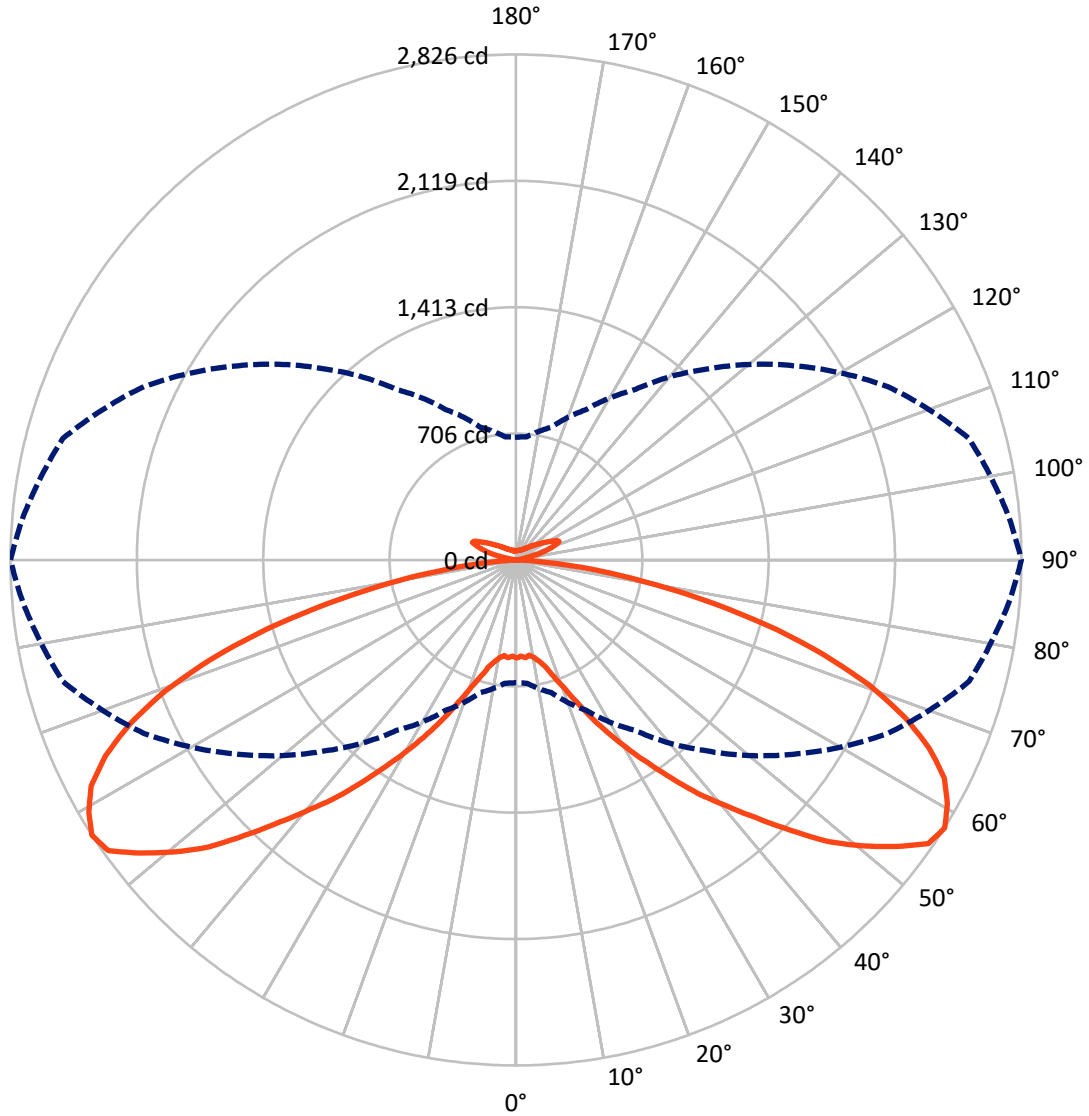
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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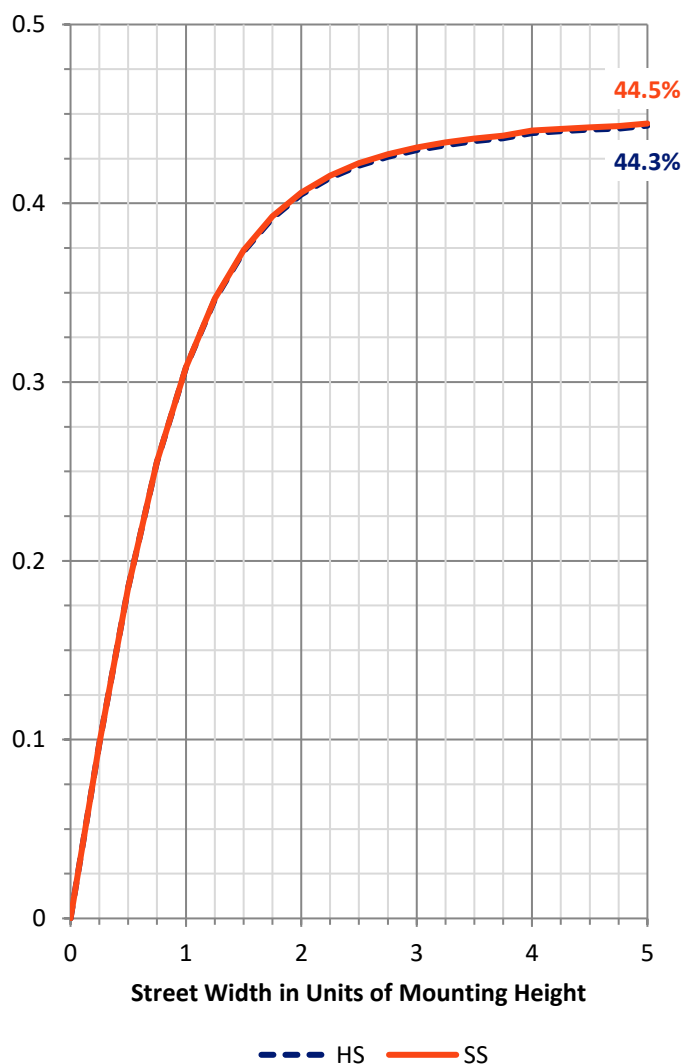
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3049.5	376.3	3425.8
	% Fixture	44.5	5.5	50.0
Street Side	Lumens	3049.5	376.3	3425.8
	% Fixture	44.5	5.5	50.0
Total	Lumens	6099.0	752.7	6851.7
	% Fixture	89.0	11.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	0.8
10°-20°	168.5	2.5
20°-30°	358.6	5.2
30°-40°	661.0	9.6
40°-50°	1064.2	15.5
50°-60°	1440.4	21.0
60°-70°	1400.5	20.4
70°-80°	814.8	11.9
80°-90°	138.8	2.0
90°-100°	16.8	0.2
100°-110°	170.7	2.5
110°-120°	249.6	3.6
120°-130°	144.9	2.1
130°-140°	76.7	1.1
140°-150°	45.6	0.7
150°-160°	28.1	0.4
160°-170°	15.3	0.2
170°-180°	5.0	0.1
0°-90°	6099.0	89.0
0°-180°	6851.7	100.0

Coefficient of Utilization



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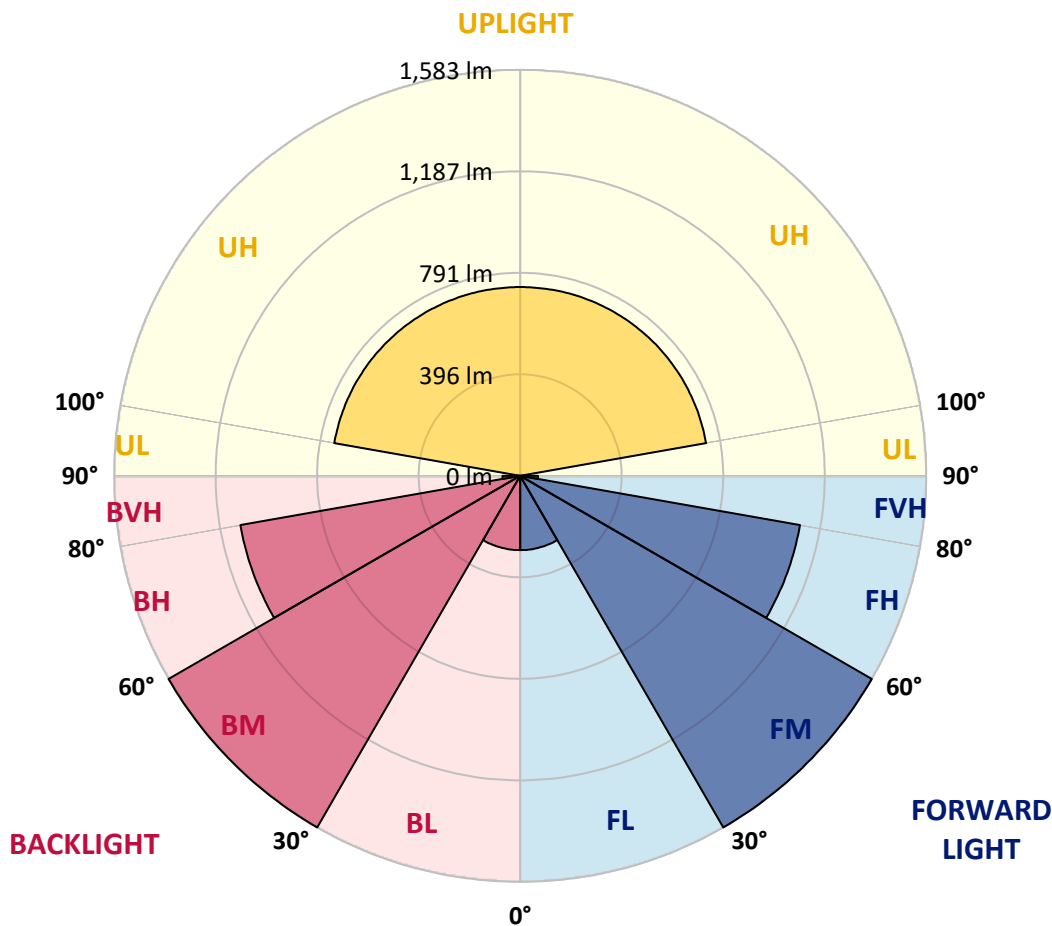
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.7	4.2			
FM (30°-60°)	1582.8	23.1			
FH (60°-80°)	1107.7	16.2			G1/1800
FVH (80°-90°)	69.4	1.0			G1/100
BL (0°-30°)	289.7	4.2	B1/500		
BM (30°-60°)	1582.8	23.1	B2/2500		
BH (60°-80°)	1107.7	16.2	B3/2500		G3/2500
BVH (80°-90°)	69.4	1.0			G1/100
UL (90°-100°)	16.8	0.2		U2/50	
UH (100°-180°)	735.8	10.7		U4/1000	

BUG Rating: B3-U4-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7	548.7
2.5°	548.7	548.7	548.7	548.7	543.2	543.2	543.2	537.7	537.7	537.7	537.7
5°	548.7	548.7	548.7	554.2	554.2	554.2	548.7	548.7	548.7	548.7	548.7
7.5°	548.7	554.2	554.2	548.7	548.7	543.2	543.2	543.2	537.7	537.7	537.7
10°	548.7	548.7	548.7	548.7	543.2	543.2	548.7	548.7	554.2	554.2	554.2
12.5°	543.2	543.2	548.7	548.7	548.7	554.2	565.1	570.6	576.1	581.6	581.6
15°	548.7	548.7	554.2	559.6	565.1	576.1	592.6	609.0	620.0	625.5	620.0
17.5°	548.7	554.2	559.6	570.6	587.1	603.5	631.0	652.9	674.9	680.3	685.8
20°	559.6	559.6	565.1	587.1	614.5	641.9	680.3	718.7	746.2	757.2	757.2
22.5°	565.1	570.6	576.1	603.5	647.4	691.3	746.2	790.1	828.5	850.4	855.9
25°	581.6	581.6	592.6	631.0	685.8	751.7	823.0	888.8	938.2	965.6	971.1
27.5°	592.6	598.0	614.5	663.9	735.2	817.5	916.3	993.1	1053.4	1086.4	1091.8
30°	603.5	609.0	641.9	696.8	784.6	883.3	998.6	1097.3	1174.1	1212.5	1218.0
32.5°	620.0	625.5	663.9	724.2	828.5	949.2	1080.9	1201.6	1311.3	1344.2	1349.7
35°	636.4	641.9	685.8	757.2	877.9	1015.0	1168.7	1311.3	1443.0	1486.9	1497.9
37.5°	652.9	658.4	702.3	790.1	927.2	1086.4	1267.4	1437.5	1580.2	1640.5	1657.0
40°	669.4	674.9	724.2	823.0	976.6	1163.2	1371.7	1558.2	1722.8	1794.1	1805.1
42.5°	680.3	685.8	740.7	850.4	1026.0	1234.5	1481.4	1689.9	1865.5	1958.7	1969.7
45°	696.8	702.3	762.6	888.8	1069.9	1316.8	1585.6	1838.0	2041.0	2145.3	2156.2
47.5°	707.8	713.3	779.1	910.8	1119.3	1393.6	1695.4	1969.7	2211.1	2320.8	2353.8
50°	713.3	718.7	790.1	932.7	1152.2	1448.5	1783.2	2101.4	2359.3	2496.4	2512.9
52.5°	713.3	724.2	795.6	949.2	1174.1	1497.9	1854.5	2211.1	2501.9	2655.5	2661.0
55°	707.8	713.3	790.1	943.7	1185.1	1519.8	1903.9	2277.0	2600.7	2748.8	2798.2
57.5°	685.8	691.3	768.1	927.2	1163.2	1508.8	1892.9	2293.4	2622.6	2765.3	2825.6
60°	652.9	663.9	735.2	888.8	1130.2	1470.4	1860.0	2260.5	2589.7	2765.3	2770.8
62.5°	614.5	620.0	691.3	839.5	1080.9	1410.1	1799.6	2194.7	2512.9	2693.9	2688.5
65°	559.6	565.1	625.5	779.1	993.1	1294.8	1678.9	2090.4	2364.7	2556.8	2540.3
67.5°	499.3	504.8	559.6	696.8	888.8	1168.7	1514.3	1914.8	2156.2	2353.8	2342.8
70°	433.4	433.4	482.8	598.0	779.1	1026.0	1333.3	1684.4	1925.8	2090.4	2095.9
72.5°	356.6	356.6	400.5	499.3	652.9	861.4	1124.8	1437.5	1635.0	1777.7	1788.6
75°	279.8	274.3	312.7	395.0	515.7	685.8	888.8	1157.7	1311.3	1448.5	1443.0
77.5°	197.5	197.5	219.5	285.3	373.1	510.3	658.4	872.4	976.6	1091.8	1069.9
80°	126.2	126.2	137.2	186.5	246.9	340.2	433.4	592.6	663.9	751.7	724.2
82.5°	65.8	60.4	71.3	98.8	131.7	186.5	241.4	345.7	378.6	444.4	422.5
85°	21.9	21.9	21.9	32.9	49.4	71.3	93.3	148.1	153.6	197.5	181.1
87.5°	5.5	0.0	0.0	5.5	5.5	5.5	5.5	16.5	16.5	32.9	21.9
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)